

# THE SENIOR SYMPOSIUM

# SHARE YOUR PASSIONS

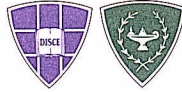
**April 18, 2014**

Sponsored by the  
Center for Teaching and Learning



HOBART AND WILLIAM SMITH COLLEGES





HOBART AND WILLIAM SMITH  
COLLEGES

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Office of the President

April 7, 2014

Dear Members of the Hobart and William Smith Community,

Now in its sixth year, the Senior Symposium is one of the Colleges' many points of pride, embodying the breadth and depth of a Hobart and William Smith education and showcasing the significant contributions of our students.

In campus classrooms, laboratories and studios, in the Geneva community and beyond, the consequential work of HWS students gives voice to new ideas and debates. In the Colleges' rich tradition of interdisciplinary study, the Senior Symposium celebrates the sustained and sophisticated work of our seniors and Master's in Teaching students, who help push the boundaries of their disciplines under the mentorship of committed faculty members. It also celebrates the faculty members who help students push their own intellectual limits through rigorous research, scholarly analysis, service learning and artistic craft.

On behalf of the campus community, I am proud of the participants in this year's Symposium, whose ideas strengthen and enrich us all. I am grateful to the many faculty members who have mentored these students and who encourage them to take on challenging and vital work. Finally, I am thankful to the Center for Teaching and Learning and to Dr. Susan Pliner and her staff, for their vision and leadership in making the Senior Symposium the success that it is.

Sincerely,

A handwritten signature in black ink that reads 'Mark D. Gearan'. The signature is fluid and cursive, with a long vertical line extending downwards from the end of the name.

Mark D. Gearan  
President





HOBART AND WILLIAM SMITH  
COLLEGES

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Office of the Provost

Dear HWS Community,

I am very proud of our students' scholarly and creative work, as well as their research and community-infused projects. At Hobart and William Smith Colleges, we are fortunate to see and celebrate our students' intellectual passion in the Senior Symposium. The event represents multiple aspects of what makes a liberal arts education so valuable: interdisciplinarity, close student-faculty interaction, attention to multiple learning modes and opportunities, and a high standard of rigor and intellectual engagement. As Provost and Dean of Faculty, I look forward to sharing these great examples of what a Hobart and William Smith College education can produce, with the greater HWS community.

I also want to express my gratitude to the faculty and staff who have nurtured these students and their work throughout their time at HWS, and to those who have mentored and sponsored the students as they prepared their Senior Symposium presentations. I am also grateful to those who will take time from their busy schedules to moderate panels on April 18<sup>th</sup>. Welcome all and thank you,

Sincerely,

A handwritten signature in black ink, appearing to read 'Titilayo Ufomata'.

Titilayo Ufomata  
Provost and Dean of Faculty



HOBART  
AND  
WILLIAM SMITH  
COLLEGES

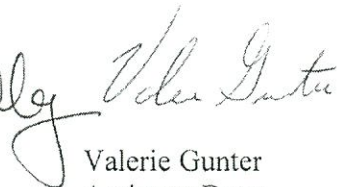

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Members of the HWS Community:

The *Senior Symposium* is an exciting event which reflects and honors the depth and breadth of engagement among Hobart and William Smith students in a diverse spectrum of academic and creative interests. It makes visible that which is often invisible, the long hours and hard work students dedicate to the intellectual journey during their four years at the Colleges. Most importantly, it provides an opportunity for students, under the guidance of faculty advisors, to engage each other as teachers and learners.

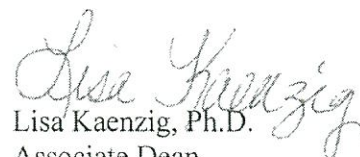
As your Deans, we join with the Center for Teaching and Learning in applauding those who are participating in the sixth Senior Symposium as presenters. This is an important academic achievement that you now have as part of your legacy. We also want to applaud the volunteer stewards who will assist in the organization of the day and the faculty and staff who will serve as panel moderators. The Deans also join in the welcoming of all members of the HWS community to this wonderful demonstration of student teaching and learning.

Sincerely,

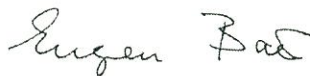


Susanne McNally, Ph.D.  
Dean  
William Smith College

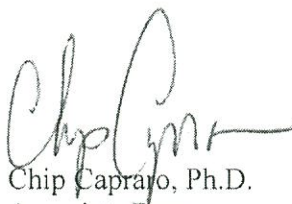
Valerie Gunter  
Assistant Dean  
William Smith College



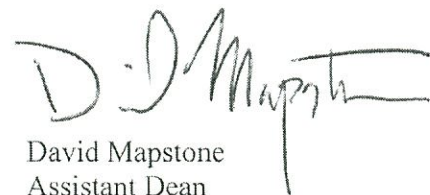
Lisa Kaenzig, Ph.D.  
Associate Dean  
William Smith College



Eugen Baer, Ph.D.  
Dean  
Hobart College



Chip Capraro, Ph.D.  
Associate Dean  
Hobart College



David Mapstone  
Assistant Dean  
Hobart College







HOBART AND WILLIAM SMITH  
COLLEGES

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Dear Hobart & William Smith Colleagues, Students, and Friends:

It gives me great pleasure to invite you to join the CTL at the sixth annual Senior Symposium. We honor the academic interests, research, passion, and creativity of the 2014 Senior classes and MAT candidates by attending the day-long Senior Symposium conference on April 18<sup>th</sup>. The Senior Symposium is a visible and tangible representation of the diversity and breadth of the work our students pursue, as well as an example of a community that collectively celebrates student achievement. This 6<sup>th</sup> year milestone is the continuation of a rich tradition here at the Colleges.

The Center for Teaching and Learning believes that in order to create, innovate, inspire, and lead lives of consequence, our journeys begin with 4 cornerstones: we ENGAGE in our own learning processes in order to ACCOMPLISH the goals we set so that we can EMPOWER ourselves and others and ENRICH our lives as learners and teachers. The Senior Symposium is a culmination of students' journeys: an opportunity for them to empower and enrich the HWS community by engaging in interdisciplinary dialogues about their intellectual accomplishments.

I would like to extend my sincere thanks to the dedicated staff of the CTL: Ruth Shields, Susan Hess, Ingrid Keenan, Jamie Slusser, Sam Vann, David Silver and our exceptional student assistants for their dedication and hard work towards making this event possible.

Hobart and William Smith Colleges is truly a special place for learning and living. I hope that you share in my excitement for this event, which highlights the wonderful array of academic opportunities available to our students. I look forward to seeing many of you on April 18<sup>th</sup>!

Sincerely,

A handwritten signature in black ink, appearing to read 'Susan M. Pliner', written over a large, stylized, circular flourish.

Susan M. Pliner, Ed.D.

Associate Dean of Teaching, Learning, and Assessment  
Director, Center for Teaching and Learning



## **ACKNOWLEDGEMENTS**

The sixth annual Senior Symposium was made possible by the vision, leadership, and efforts of many in the Hobart and William Smith community:

Office of the President  
Office of the Provost  
Offices of the Hobart and William Smith Deans  
Office of Communications  
IT Services

### **Center for Teaching and Learning**

Anya Bounar, Amanda Carney, Lucia Cardone, Steffi Cramer, Abby Evans, Alexa Hill, Andrew Hoy, Susan Hess, Alexis Kaufman, Ingrid Keenan, Haleigh Marshall, Sharafudin Mirzayee, Domenic Merolla, Susan Pliner, Ruth Shields, David Silver, Jamie Slusser, Sam Vann

### **Information Technology Services**

Juliet Habjan Boisselle, Roy Dewar, Ed Edington, Kelly McLaughlin, Deborah Rasmussen, Matt Thomas, Stan Weaver, Jennifer Webb

### **Dining Services**

Tammy Pillsbury

### **Abstract Writing and Presentation Workshop Facilitators**

Laura Alexander, Sarah Berry, Bonnie Bushnell, Chris Button, Aminata Dansoko, Hannah Dickinson, Annabelle Everett, Peter Fiannaca, Amy Forbes, Ana Garcia, Jack Harris, Chris Hatch, Alex Janney, Beth Kinne, Kaylyn O'Brien, Felipe Rezende, Ben Ristow, Solome Rose, Jeremy Wattles, Maggie Werner

Sincere thanks are extended to the students, faculty advisors, faculty moderators, department administrative assistants, staff, alumnae, and all who have contributed to the success of this year's event.

## **RESEARCH SUPPORT AND AWARDS**

Symposium students have received generous support for their academic projects from the following organizations, programs, and funds:

Centennial Center for Leadership, Hobart and William Smith Colleges

Center for Community Engagement and Service Learning, Hobart and William Smith Colleges

Eric Cohler Travel Award and Internship

Stephen Cohen Endowed Honors Fund

Clinton Global Initiative University

National Science Foundation-Research in Undergraduate Institutions Grants

Hobart and William Smith Provost's Office

Psychology Department, Hobart and William Smith Colleges

Summer Science Grant, Hobart and William Smith Colleges

William Smith Congress

William Smith College Deans' Office

Chemistry Department Funded Travel Grant, Hobart and William Smith Colleges

The Hobart and William Smith Colleges President's Office

Environmental Studies Fund Grant, Hobart and William Smith Colleges

Biology Department, Hobart and William Smith Colleges

Cottrell College Science Award

Senior  
Symposium  
2014  
Presenters



## SENIOR SYMPOSIUM 2014 PRESENTERS

<b>Presenter</b>	<b>Department/Program</b>	<b>Sponsor</b>	<b>Panel Time</b>	<b>Room</b>
Abdulkadir, Amira	Economics	Felipe Rezende	9:05 - 10:00	Sanford Room
Abrams, Jennifer	Anthropology & Sociology	James Spates	9:05 - 10:00	Geneva Room
Alexander, Laura	Writing & Rhetoric	Maggie Werner	9:05 - 10:00	Learning Studio 1
Atanasio, Morgan	Center for Teaching & Learning	Susan Hess	11:15 - 12:10	Learning Studio 2
Atanasio, Morgan	Women's Studies	Jessica Hayes- Conroy	9:05 - 10:00	Learning Studio 1
Baird, Andrew	Chemistry	Kristin Slade	9:05 - 10:00	Sanford Room
Barden, Lelia	Environmental Studies	Tom Drennen & Beth Kinne	8:00 - 8:55	Geneva Room
Barnard-Webster, Stevenson	Music	Charity Lofthouse	11:15 - 12:10	Geneva Room
Barnes, Jasmine	Religious Studies	Richard Salter	9:05 - 10:00	Geneva Room
Bartell, Jackson	Environmental Studies	Tom Drennen & Beth Kinne	10:10 - 11:05	Geneva Room
Bassage, Zachary	Music	Katherine Walker	8:00 - 8:55	Sanford Room
Bergdoll, Nicholas	Economics	Felipe Rezende	12:20 - 1:15	Learning Studio 1
Berlanga, Andrew	Environmental Studies	Tom Drennen & Beth Kinne	12:20 - 1:15	Sanford Room
Beston, Shannon	Biology	Susan Cushman	4:05 - 5:00	Learning Studio 2
Beston, Shannon	Environmental Studies	Susan Cushman	8:00 - 8:55	Geneva Room
Biagini, Alyssa	Environmental Studies	Tom Drennen & Beth Kinne	9:05 - 10:00	Sanford Room
Blake-Whitney, Lauren	American Studies	Elizabeth Belanger	12:20 - 1:30	Geneva Room
Blumenthal, Abigail	Women's Studies	Jessica Hayes-Conroy	3:00 - 3:55	Learning Studio 1
Bonney, Richard	Public Policy	Craig Rimmerman	4:05 - 5:00	Learning Studio 1
Borenstein, Sasha	Anthropology & Sociology	James E. Sutton	3:00 - 3:55	Geneva Room
Boyle, William	Economics	Felipe Rezende	1:55 - 2:50	Learning Studio 1
Bronner, Kristyna	Writing & Rhetoric	Hannah Dickinson	12:20 - 1:30	Learning Studio 2

## SENIOR SYMPOSIUM 2014 PRESENTERS

<b>Presenter</b>	<b>Department/Program</b>	<b>Sponsor</b>	<b>Panel Time</b>	<b>Room</b>
Bueno, Natia	Hobart Deans' Office	David Mapstone	12:20 - 1:15	Sanford Room
Bushnell, Bonnie	Dance	Donna Davenport	10:10 - 11:05	Sanford Room
Camp, Janet	English	Sarah Berry	3:00 - 3:55	Learning Studio 2
Canty, Jocelyn	Psychology	Brien Ashdown	1:55 - 2:50	Geneva Room
Casola, Benjamin	English	Caroline Manring	8:00 - 8:55	Learning Studio 2
Caudill, Morgan	Psychology	Emily Fisher	8:00 - 8:55	Learning Studio 2
Charest, Thomas	Music	Katherine Walker	1:55 - 2:50	Geneva Room
Charette, Karah	Dance	Donna Davenport	12:20 - 1:30	Geneva Room
Clarke, Brent	Environmental Studies	Tom Drennen & Beth Kinne	10:10 - 11:05	Geneva Room
Corbett, Dylan	Environmental Studies	Tom Drennen & Beth Kinne	10:10 - 11:05	Geneva Room
Creary, Andrew	Environmental Studies	Tom Drennen & Beth Kinne	4:05 - 5:00	Learning Studio 2
Davidowitz, Emily	Education	Charlie Temple	12:20 - 1:15	Learning Studio 1
Davison, Mackenzie	Religious Studies	Richard Salter	8:00 - 8:55	Learning Studio 1
Delaney, Katherine	Chemistry	Walter Bowyer	10:10 - 11:05	Learning Studio 1
DePillo, Sarah	Religious Studies	Richard Salter	11:15 - 12:10	Learning Studio 1
DiMaria, Erica	Religious Studies	Richard Salter	12:20 - 1:30	Geneva Room
Dove, Emily	Dance	Donna Davenport	12:20 - 1:15	Learning Studio 1
Duffy, Lia	Women's Studies	Jessica Hayes-Conroy	3:00 - 3:55	Geneva Room
Evans, Abigail	Anthropology & Sociology	Chris Annear	8:00 - 8:55	Learning Studio 1
Fenner, Hilary	Anthropology & Sociology	Jeffrey Anderson	11:15 - 12:10	Learning Studio 2
Ferry, Christine	Chemistry	Kristin Slade	4:05 - 5:00	Geneva Room
Fiorentino, Thomas	Environmental Studies	Tom Drennen & Beth Kinne	9:05 - 10:00	Learning Studio 2



## SENIOR SYMPOSIUM 2014 PRESENTERS

<b>Presenter</b>	<b>Department/Program</b>	<b>Sponsor</b>	<b>Panel Time</b>	<b>Room</b>
Freitag, Melissa	Anthropology & Sociology	Jack Harris	9:05 - 10:00	Sanford Room
Freitag, Melissa	Anthropology & Sociology	Jack Harris & Chip Capraro	11:55 - 2:55	Geneva Room
Garcia, Ana	Religious Studies	Richard Salter	1:55 - 2:50	Learning Studio 1
Garcia, Ana	Art & Architectural Studies	Jeffrey Blankenship	4:05 - 5:00	Learning Studio 2
Garcia-Decena, Rayma	Art & Architectural Studies	Jeffrey Blankenship	3:00 - 3:55	Learning Studio 1
Gaucher, Meghan	Writing & Rhetoric	Hannah Dickinson	12:20 - 1:30	Learning Studio 2
Gemmiti, Stephen	Media & Society	Lester Friedman	8:00 - 8:55	Learning Studio 2
Gengarelly, Kara	Psychology	Jamie Bodenlos	9:05 - 10:00	Learning Studio 2
Gibbons, Joseph	Economics	Felipe Rezende	1:55 - 2:50	Sanford Room
Gist, Grace	Music	Katherine Walker	1:55 - 2:50	Sanford Room
Gist, Grace	English	Stephen Cope	12:20 - 1:30	Geneva Room
Gould, Morgan	Economics	Felipe Rezende	8:00 - 8:55	Learning Studio 1
Gove, Hilary	Public Policy	Craig Rimmerman	4:05 - 5:00	Learning Studio 1
Green, Michael	Mathematics & Computer Science	Yan Hao	9:05 - 10:00	Geneva Room
Gregory, Kayleigh	Environmental Studies	Tom Drennen & Beth Kinne	10:10 - 11:05	Geneva Room
Hall, Jessie	Education	Mary Kelly	4:05 - 5:00	Geneva Room
Hauser, Jeffrey	Religious Studies	Richard Salter	11:15 - 12:10	Geneva Room
Hellmund, Andrew	Art & Architectural Studies	Ted Aub	10:10 - 11:05	Sanford Room
Hill, Alexa	Chemistry	Walter Bowyer	1:55 - 2:50	Sanford Room
Hosek, Melissa	Political Science	Vikash Yadav	12:20 - 1:15	Learning Studio 1
Jarrett, Richard	Music	Katherine Walker	1:55 - 2:50	Learning Studio 1
Kent, Alex	Public Policy	Craig Rimmerman	4:05 - 5:00	Learning Studio 1

## SENIOR SYMPOSIUM 2014 PRESENTERS

<b>Presenter</b>	<b>Department/Program</b>	<b>Sponsor</b>	<b>Panel Time</b>	<b>Room</b>
Kent, Alex	Economics	Felipe Rezende	9:05 - 10:00	Learning Studio 2
Kent, Lindsay	Anthropology & Sociology	Jack Harris	8:00 - 8:55	Geneva Room
Kent, Lindsay	Anthropology & Sociology	Renee Monson	9:05 - 10:00	Geneva Room
Knopka, Samuel	Biology	Bradley Cosentino	3:00 - 3:55	Learning Studio 2
LaCamera, Devyn	Media & Society	Lisa Patti	9:05 - 10:00	Learning Studio 1
Latella, Luke	English	Stephen Cope	12:20 - 1:30	Geneva Room
Levis, John	Economics	Felipe Rezende	4:05 - 5:00	Geneva Room
Lindecke, Cornelia	Environmental Studies	Tom Drennen & Beth Kinne	11:15 - 12:10	Sanford Room
Love, Alex	American Studies	Elizabeth Belanger	1:55 - 2:50	Geneva Room
Lynch, Justine	Art & Architectural Studies	Patricia Mathews	11:15 - 12:10	Sanford Room
Mahoney, Meaghan	Writing & Rhetoric	Cheryl Forbes	8:00 - 8:55	Learning Studio 2
Malbouf, Maxwell	Anthropology & Sociology	Jack Harris	4:05 - 5:00	Sanford Room
Maloney, Chelsea	English	Kathryn Cowles	10:10 - 11:05	Sanford Room
Malordy, Andrew	Psychology	Jamie Bodenlos	9:05 - 10:00	Learning Studio 2
Mangine, Maria	Chemistry	Kristin Slade	10:10 - 11:05	Learning Studio 1
Marenakos, Nicholas	Environmental Studies	Tom Drennen & Beth Kinne	4:05 - 5:00	Learning Studio 2
Markham, Margaret	Public Policy	Craig Rimmerman	4:05 - 5:00	Learning Studio 1
Marshall, Haleigh	Environmental Studies	Tom Drennen & Beth Kinne	3:00 - 3:55	Sanford Room
Mathieu, Greg	Religious Studies	Richard Salter	10:10 - 11:05	Sanford Room
McConnell, Margaret	Psychology	Michelle Rizzella	12:20 - 1:30	Learning Studio 2
McKinney, Sara	Dance	Donna Davenport	11:15 - 12:10	Learning Studio 1
Meyer, Hannah	Anthropology & Sociology	Jack Harris	4:05 - 5:00	Sanford Room

## SENIOR SYMPOSIUM 2014 PRESENTERS

<b>Presenter</b>	<b>Department/Program</b>	<b>Sponsor</b>	<b>Panel Time</b>	<b>Room</b>
Mikutowicz, Jangmi	Economics	Felipe Rezende	10:10 - 11:05	Learning Studio1
Milbrath, Taylor	Psychology	Jamie Bodenlos	9:05 - 10:00	Learning Studio 2
Mitchell, Demi	Art & Architectural Studies	Gabriella D'Angelo	11:15 - 12:10	Geneva Room
Mitchell, Marjorie	Environmental Studies	Tom Drennen & Beth Kinne	12:20 - 1:15	Sanford Room
Monahan, Hillary	Environmental Studies	Chris Annear	10:10 - 11:05	Geneva Room
Moss, Joshua	Physics	Ileana Dumitriu	4:05 - 5:00	Geneva Room
O'Brien, Aaron	Anthropology & Sociology	Renee Monson	8:00 - 8:55	Sanford Room
Oak, Julia	Anthropology & Sociology	Jack Harris	8:00 - 8:55	Geneva Room
Occhipinti, Dona	Biology	Mark Deutschlander	3:00 - 3:55	Geneva Room
Padnos, Louis	Economics	Felipe Rezende	10:10 - 11:05	Geneva Room
Paige, Katie	Environmental Studies	Tom Drennen & Beth Kinne	8:00 - 8:55	Geneva Room
Pavao, Ava	Political Science	Iva Deutchman	8:00 - 8:55	Sanford Room
Powell, Jacob	Economics	Joseph Rebello	11:15 - 12:10	Sanford Room
Rapp, Jocelyn	Writing & Rhetoric	Hannah Dickinson	3:00 - 3:55	Learning Studio 1
Rew, Jane	Environmental Studies	Tom Drennen & Beth Kinne	9:05 - 10:00	Learning Studio 2
Roberts, Alex	Environmental Studies	Tom Drennen & Beth Kinne	10:10 - 11:05	Geneva Room
Robinson, Troy	Religious Studies	Richard Salter	3:00 - 3:55	Learning Studio 1
Schonfeld, Ariel	Religious Studies	Richard Salter	8:00 - 8:55	Sanford Room
Seergy, Chuck	Economics	Felipe Rezende	3:00 - 3:55	Sanford Room
Serenbetz, Robert	Economics	Felipe Rezende	8:00 - 8:55	Learning Studio 1
Shaw, Danielle	Anthropology & Sociology	Jack Harris	11:15 - 12:10	Learning Studio 2
Smith, Rachael	Psychology	Michelle Rizzella	12:20 - 1:30	Learning Studio 2

## SENIOR SYMPOSIUM 2014 PRESENTERS

<b>Presenter</b>	<b>Department/Program</b>	<b>Sponsor</b>	<b>Panel Time</b>	<b>Room</b>
Stamm, Walter	Religious Studies	Richard Salter	4:05 - 5:00	Learning Studio 2
Szwejbka, Elizabeth	Psychology	Jamie Bodenlos	9:05 - 10:00	Learning Studio 2
Theibault, Alice	Environmental Studies	Tom Drennen & Beth Kinne	10:10 - 11:05	Geneva Room
Thomas, Lara	Education	Jim MaKinster	12:20 - 1:15	Sanford Room
Thomas, Raymond	Education	Mary Kelly	4:05 - 5:00	Sanford Room
Thurman, Brittany	Economics	Felipe Rezende	1:55 - 2:50	Sanford Room
Trumpetto, Brynna	Psychology	Jamie Bodenlos	11:15 - 12:10	Learning Studio 1
van Loon, Amy	Chemistry	Erin Pelkey	3:00 - 3:55	Geneva Room
Van Nostrand, Zoë	Anthropology & Sociology	Jeffrey Anderson	11:15 - 12:10	Sanford Room
Vatinel, Mary Claire	Art & Architectural Studies	Gabriella D'Angelo	3:00 - 3:55	Sanford Room
Vollo, Emily	Art & Architectural Studies	Gabriella D'Angelo	3:00 - 3:55	Sanford Room
Wacker, Soeren	Music	Charity Lofthouse	10:10 - 11:05	Learning Studio 1
Waldrop, Rebecca	Anthropology & Sociology	Jack Harris	8:00 - 8:55	Geneva Room
Wang, Bowen	Economics	Felipe Rezende	1:55 - 2:50	Learning Studio 1
Weimer, William	Environmental Studies	Tom Drennen & Beth Kinne	3:00 - 3:55	Sanford Room
Welych-Miller, Alexandra	Psychology	Brien Ashdown	1:55 - 2:50	Geneva Room
White, Arianna	Psychology	Daniel Graham	4:05 - 5:00	Sanford Room
Zanghi, Nicole	Theatre	Heather May	3:00 - 3:55	Learning Studio 2
Zenger, Andrew	Chemistry	Kristin Slade	3:00 - 3:55	Learning Studio 2
Zhao, E	Anthropology & Sociology	Jack Harris	4:05 - 5:00	Sanford Room

Senior  
Symposium  
2014  
Schedule



# Geneva Room

Time	Presenters	Abstract Title	Department/Program
<b>All About G-Town</b> (Moderator: Mary Herlihy Gearan)			
8:00-8:55	Barden, Lelia Paige, Katie	Farmester: A Semester Abroad in Geneva, NY	Environmental Studies
	Beston, Shannon	Castle Creek, Storm Drains, and Why Runoff Water Matters	Environmental Studies
	Kent, Lindsay Oak, Julia Waldrop, Rebecca	What's the Value?: An Economic Impact Study with Social Considerations of the Smith Center for the Arts	Anthropology & Sociology
	Questions & Answers		
<b>Community</b> (Moderator: Leah Shafer)			
9:05-10:00	Abrams, Jennifer	Life, Liberty and the Pursuit of Happiness vs. Peace, Order and Good Governance: Approaches to Urban Revitalization of Low-Income Communities in Canada and the U.S.	Anthropology & Sociology
	Barnes, Jasmine	Entering Ecstasy: The Holy Pentecostal Experience	Religious Studies
	Green, Michael	How Popular Do You Want to Be? A Mathematical Model of College Friendship	Mathematics & Computer Science
	Kent, Lindsay	Kitchen Communities: A Case Study of Meaningful Places	Anthropology & Sociology
	Questions & Answers		

# Geneva Room

Time	Presenters	Abstract Title	Department/Program
<b>Making Choices (Moderator: Chris Annear)</b>			
10:10-11:05	Bartell, Jackson Clarke, Brent Theibault, Alice	HWS Farm: Growing Greens and Going Green	Environmental Studies
	Corbett, Dylan Gregory, Kayleigh Roberts, Alex	HWS Farm: Composting	Environmental Studies
	Monahan, Hillary	Negotiating with Nature: A Study of Genetic Modification in Food Production and its Effects on Amish Agriculture	Environmental Studies
	Padnos, Louis	Gambling With Someone Else's Money: The Role of Leverage in the 2008 Financial Crisis	Economics
	Questions & Answers		
<b>Representation (Moderator: Charity Lofthouse)</b>			
11:15-12:10	Barnard-Webster, Stevenson	Conveying Human Complexity Through a Lack of Musical Complexity: Explaining Genius, Obsession, and Mind at Work Through Transformation Analysis in Film Scores	Music
	Hauser, Jeffrey	Israel, Pentecostalism, and the United States	Religious Studies
	Mitchell, Demi	The Relationship Between Studio Art and Fashion Design	Art & Architectural Studies
	Questions & Answers		



# Geneva Room

Time	Presenters	Abstract Title	Department/Program
<b>Disembodied Voices (Moderator: Michelle Ikle)</b>			
12:20-1:30	Blake-Whitney, Lauren	Navigating Cultural, Temporal, and Spatial Dislocation of Diaspora People: A Case Study of Việt Kiều and Vietnamese-Americans in California	American Studies
	Charette, Karah	Body-Mind Connection: Inseparable and Influential Identities	Dance
	DiMaria, Erica	Speaking in Tongues and the Holy Spirit: A Catholic's Perspective	Religious Studies
	Gist, Grace	The Acousmatic Narrator: Relations, Narrative Distance, and the Voice of Night Vale	English
	Latella, Luke	Deus Ex Modernism: Mythology and Nationalism in the Irish Literary Renaissance	English
	Questions & Answers		
<b>Gender Construction (Moderator: Chip Capraro)</b>			
1:55-2:50	Canty, Jocelyn Welych-Miller, Alexandra	The Influence of Religiosity on Body Sanctification and Body Image	Psychology
	Charest, Thomas	Metal and Masculinity: The Engendred Genre	Music
	Freitag, Melissa	2CW and Masculinity: Gender Perspectives on Pro Wrestling	Anthropology & Sociology
	Love, Alex	The Rhetoric of Masculinity in Sport	American Studies
	Questions & Answers		

# Geneva Room

Time	Presenters	Abstract Title	Department/Program
<b>Lessons Learned (Moderator: Matt Crow)</b>			
3:00-3:55	Borenstein, Sasha	The Unknown can be the Most Rewarding	Anthropology & Sociology
	Duffy, Lia	Students' Visceral Motivations Behind Food Waste	Women's Studies
	Occhipinti, Dona	A Translational Approach to Cardiovascular Research and Medicine	Biology
	van Loon, Amy	The Art of Science, the Science of Art	Chemistry
	Questions & Answers		
<b>Living in the Digital Age: Applications &amp; Inquiries (Moderator: Kristy Kenyon)</b>			
4:05-5:00	Ferry, Christine	The Investigation of Protein Folding Pathway using Computer Simulations	Chemistry
	Hall, Jessie	Disability & Technology: Math Tablet Apps for Children with Learning Disabilities or ADHD	Education
	Levis, John	Too Much of a Good Thing: How Easier and Faster Access to Information Leads to Market Fragility	Economics
	Moss, Joshua	Light 10,000 Times Brighter than the Sun	Physics
	Questions & Answers		

# Learning Studio 1

Time	Presenters	Abstract Title	Department/Program
<b>Risk (Moderator: Keoka Grayson)</b>			
8:00-8:55	Davison, Mackenzie	Bulletproof Beliefs of Pentecostalism: A Misunderstood Faith	Religious Studies
	Evans, Abigail	Bungee Jumping at Victoria Falls: An Ethnographic Approach to Understanding Tourism	Anthropology & Sociology
	Gould, Morgan	Risky Business: Analyzing the Practices Leading to the Financial Crisis	Economics
	Serenbetz, Robert	Generating Risk: A Study on Risk Creation Embedded in the Repo Market	Economics
	Questions & Answers		
<b>Signs &amp; Symbols (Moderator: Eric Klaus)</b>			
9:05-10:00	Alexander, Laura	She Asked for It: The Perpetuation of Digital Rape Culture in Social Media	Writing & Rhetoric
	Atanasio, Morgan	The Red Receptacle: Reproducing Social Difference Through Macro and Micro Movements of the Red Solo Cup	Women's Studies
	LaCamera, Devyn	What Sex Sells: Examining Displays of Women in Advertising	Media & Society
	Questions & Answers		
<b>Complex Systems (Moderator: Kristin Slade)</b>			
10:10-11:05	Delaney, Katherine	Loss of Citron Kinase Leads to Increased Retinal Ganglion Cell Production	Chemistry
	Mangine, Maria	Identification of Proteins Involved in Cellular Breakdown	Chemistry
	Mikutowicz, Jangmi	Financial Regulation in America: An Antidote or a Disease?	Economics
	Wacker, Soeren	Weaving the Rhythmic Fabric: Vertical and Horizontal Rhythmic Layers in the Music of Avicii	Music
	Questions & Answers		

# Learning Studio 1

Time	Presenters	Abstract Title	Department/Program
<b>Alternative Health</b> (Moderator: Y. Heidi Yoon)			
11:15-12:10	DePillo, Sarah	Divine Healing: More Affordable than Universal Healthcare	Religious Studies
	McKinney, Sara	Experiential Research on Dance/Movement Therapy	Dance
	Trumpetto, Brynna	Breathe In and Write Out: The Health Benefits of Expressive Writing on Emotion Suppression	Psychology
	Questions & Answers		
<b>International Lessons</b> (Moderator: Jo Beth Mertens)			
12:20-1:15	Bergdoll, Nicholas	Financial Regulation: What Can We Learn from Canada?	Economics
	Davidowitz, Emily	Quantity or Quality in Reading Education	Education
	Dove, Emily	Combatting the Militia: Peaceful Resistance within South Africa	Dance
	Hosek, Melissa	Critically Understanding "Corruption"	Political Science
	Questions & Answers		
<b>New Understanding</b> (Moderator: Erin Pelkey)			
1:55-2:50	Boyle, William	Bringing Shadow Banks into the Light	Economics
	Garcia, Ana	Breaking Bread with a Murderer: Reconciling Sin in the Pentecostal Church	Religious Studies
	Jarrett, Richard	Rebranding Classical Music	Music
	Wang, Bowen	Credit Derivatives and the Financial Crisis	Economics
	Questions & Answers		

# Learning Studio 1

Time	Presenters	Abstract Title	Department/Program
<b>The Body</b> (Moderator: Rob Carson)			
3:00-3:55	Blumenthal, Abigael	Decolonization of Diet: A Visceral Approach to Analysis	Women's Studies
	Garcia-Decena, Rayma	City Wanderer as Seen Through the Eyes of a Dancer	Art & Architectural Studies
	Rapp, Jocelyn	Coloring Inside the Lines: Scripts of Race and Executive Citizenship	Writing & Rhetoric
	Robinson, Troy	Spiritual and Secular Healing Driven by a Pragmatic Impulse	Religious Studies
	Questions & Answers		
<b>Digging Deep</b> (Moderator: Craig Rimmerman)			
4:05-5:00	Bonney, Richard	Clarifying Hydrofracking	Public Policy
	Gove, Hilary	The Power of a Playground: Play in the Community of Geneva	Public Policy
	Kent, Alex	The Confidence Game in American Politics	Public Policy
	Markham, Margaret	Urban Green Spaces: Enforcers of Elitism?	Public Policy
	Questions & Answers		



## Learning Studio 2

Time	Presenters	Abstract Title	Department/Program
<b>Self-Discovery (Moderator: Eric Nelson)</b>			
8:00-8:55	Casola, Benjamin	From Rhythm and Memory to Necessity and Invention	English
	Caudill, Morgan	Sexual Prejudice Reduction: The Impact of an LGBT Speaker Panel and Lecture	Psychology
	Gemmiti, Stephen	Sex, Drugs, and the Authentic College Experience: The Story of "Young Adulterated"	Media & Society
	Mahoney, Meaghan	Let's Start Talking About Our Abilities	Writing & Rhetoric
	Questions & Answers		
<b>Changing Practices (Moderator: Jeremy Ortloff)</b>			
9:05-10:00	Fiorentino, Thomas Rew, Jane	HWS's New Farm: Getting the Food to You	Environmental Studies
	Gengarely, Kara Malordy, Andrew Milbrath, Taylor Szwejbka, Elizabeth	Practicing Clinicians' Attitudes About Clinician Research: A Qualitative Study	Psychology
	Kent, Alex	The Minimum Wage That Was: Bringing it Back	Economics
	Questions & Answers		
<b>Pay it Forward (Moderator: Lisa Kaenzig)</b>			
11:15-12:10	Atanasio, Morgan	The Finish Line: My Four Year Marathon at William Smith College	Center for Teaching & Learning
	Fenner, Hilary	Reciprocity in Downtown Geneva	Anthropology & Sociology
	Shaw, Danielle	Do Teachers Use the Books? Attempting to Increase the Literacy Skills of Low Income Geneva Preschoolers	Anthropology & Sociology
	Questions & Answers		

# Learning Studio 2

Time	Presenters	Abstract Title	Department/Program
<b>Language</b> (Moderator: Scott MacPhail)			
12:20-1:30	Bronner, Kristyna	Feminism as a Devil Term: How News Builds Ideology	Writing & Rhetoric
	Gaucher, Meghan	Indigenous Identity-Making: The Turkana, Development, and the Aid World	Writing & Rhetoric
	McConnell, Margaret Smith, Rachael	The Impact of Context on the Activation and Generation of Elaborative Inferences	Psychology
	Questions & Answers		
<b>Navigation</b> (Moderator: John Vaughn)			
3:00-3:55	Camp, Janet	Physical Accessibility at HWS	English
	Knopka, Samuel	Spatial Distribution of the Red-Backed Salamander ( <i>Plethodon Cinereus</i> ) along a Forest Fragmentation Gradient in Finger Lakes National Forest	Biology
	Zanghi, Nicole	Theatre for Health	Theatre
	Zenger, Andrew	Targeting the mTOR Pathway in Next Generation Cancer Treatments	Chemistry
	Questions & Answers		
<b>Changing Environments</b> (Moderator: Susan Cushman)			
4:05-5:00	Beston, Shannon	Black Spot Disease: The Relationship Between Fish Body Condition, Infection Prevalence, and Cyst Abundance	Biology
	Creary, Andrew Marenakos, Nicholas	Apiary at Hobart and William Smith Colleges: An Ethnographic Study	Environmental Studies
	Garcia, Ana	From Oblivion to Center Stage: Redesigning Bicentennial Park	Art & Architectural Studies
	Stamm, Walter	Comparing the Early Pentecostal Movement to Early Christianity	Religious Studies
	Questions & Answers		



# Sanford Room

Time	Presenters	Abstract Title	Department/Program
<b>Identities &amp; Roles (Moderator: Renee Monson)</b>			
8:00-8:55	Bassage, Zachary	Robbing Black Music: How Cultural Appropriation Perpetuates Poverty in Jamaica	Music
	O'Brien, Aaron	Good Kids, M.A.A.D. Culture: How Race, Class and Experience with Racial Diversity Affect Listener Interpretation of Hip-Hop and Rap	Anthropology & Sociology
	Pavao, Ava	Gender Stereotypes and Women Political Leaders	Political Science
	Schonfeld, Ariel	He'll Love You, but First You Must Submit: A Woman's Role in Pentecostal Churches	Religious Studies
	Questions & Answers		
<b>Reducing Loss (Moderator: Christine de Denus)</b>			
9:05-10:00	Abdulkadir, Amira	Is a World Without Government Deficits Possible?	Economics
	Baird, Andrew	PS1 Inhibition: A New Outlook for Alzheimer's Disease Treatment	Chemistry
	Biagini, Alyssa	Sustainable Building Proposal For White Springs Lane Property	Environmental Studies
	Freitag, Melissa	A Fading Soul: Exploring the Preservation of Traditional Vietnamese Music	Anthropology & Sociology
	Questions & Answers		

# Sanford Room

Time	Presenters	Abstract Title	Department/Program
<b>Composition</b> (Moderator: Rob Carson)			
10:10-11:05	Bushnell, Bonnie	The Craft of Composition Through Writing and Dancing	Dance
	Hellmund, Andrew	Understanding an Abstract Sculptural Process	Art & Architectural Studies
	Maloney, Chelsea	Developing Language in a Liberal Arts Environment: A Poet's Guide to College	English
	Mathieu, Greg	Glossolalia: Tongues of Fire	Religious Studies
	Questions & Answers		
<b>Through Time</b> (Moderator: Jason Rodriguez)			
11:15-12:10	Lindecke, Cornelia	HWS's New Farm: A White Springs History	Environmental Studies
	Lynch, Justine	Classical and Contemporary Chinese Landscape Painting	Art & Architectural Studies
	Powell, Jacob	Crisis Theory: How the Financial System Collapsed	Economics
	Van Nostrand, Zoë	Healing the Soul Wound of Native America	Anthropology & Sociology
	Questions & Answers		
<b>Experiential Education</b> (Moderator: Jim MaKinster)			
12:20-1:15	Berlanga, Andrew Mitchell, Marjorie	There's Sun in Geneva?	Environmental Studies
	Bueno, Natia	The Value of Outdoor Education as a Means of Experiential Learning	Hobart Deans' Office
	Thomas, Lara	"Yo Ms. Thomas, Why Does the Moon Gotta Move So Slow it's Boring!"	Education
	Questions & Answers		

# Sanford Room

Time	Presenters	Abstract Title	Department/Program
<b>Will the Real ____ Please Stand Up? (Moderator: Margueritte Murphy)</b>			
1:55-2:50	Gibbons, Joseph	How Much is too Much Regulation	Economics
	Gist, Grace	Of Mozart and Mario: Legitimizing Video Game Music for Musicological Study	Music
	Hill, Alexa	Enhancing Drug Selectivity through Indium Mediated Allylations	Chemistry
	Thurman, Brittany	Control Fraud: Theft by Deception	Economics
	Questions & Answers		
<b>Design (Moderator: Hannah Dickinson)</b>			
3:00-3:55	Marshall, Haleigh Weimer, William	Getting our Hands Dirty: Real-World Experience at Fribolin Farm	Environmental Studies
	Seergy, Chuck	What's Wrong with the Euro?	Economics
	Vatinel, Mary Claire Vollo, Emily	The Design Within Film	Art & Architectural Studies
	Questions & Answers		
<b>Helping Kids (Moderator: Emily Fisher)</b>			
4:05-5:00	Malbouf, Maxwell Meyer, Hannah Zhao, E	Keeping Kids in School: Implementing a Local Expert Program for Geneva 2020	Anthropology & Sociology
	Thomas, Raymond	Child Advocacy and the Chain of Conduct	Education
	White, Arianna	Children's Literature and its Role in Social and Cognitive Development	Psychology
	Questions & Answers		



Senior  
Symposium  
2014  
Abstracts



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## IS A WORLD WITHOUT GOVERNMENT DEFICITS POSSIBLE?

Amira Abdulkadir

This paper is concerned with studying the role the government plays in stabilizing economies during recessions. The recent financial crisis will be used as a case study of government actions, examine those that work and those that do not. A very important aspect of this will be a closer look at the role of government debt as one of tools in the government's toolkit. The continuing national debate regarding the size of the government and the recurrent budget deficits that the U.S government has been running has influenced my interest in the topic and I would like to study it more from an economic perspective and less from a political perspective.

I will primarily use Kalecki's profit equation as the framework of analysis. I will provide an analysis of the available literature on the role of government in an economy in general and the particular role of government deficits as a stabilizing mechanism. I hope to illuminate that government deficits are affected by variables other than government spending, such as private sector investments, trade surpluses and deficits, consumption and savings.<sup>1</sup>

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<sup>1</sup> Wray, Randall. *Can the Expansion Be Sustained?* 2000/5

LIFE, LIBERTY, AND THE PURSUIT OF HAPPINESS VS. PEACE, ORDER, AND  
GOOD GOVERNANCE: APPROACHES TO URBAN REVITALIZATION OF LOW-  
INCOME COMMUNITIES IN CANADA AND THE U.S.

Jennifer Abrams

Do distinct approaches to holistic urban revitalization of low-income neighborhoods exist in the Canadian culture of “Peace, Order, and Good Governance” and the American culture of “Life, Liberty, and the Pursuit of Happiness”? The U.S. Department of Housing and Urban Development (HUD) has developed a Choice Neighborhoods grant program to combat some of the consequences of urban renewal in the mid to late 20<sup>th</sup> century. In 2011, Baltimore City received a HUD Choice Neighborhoods grant to create a holistic plan for the development of a mixed-income neighborhood in Central West Baltimore. Toronto’s Regent Park, a project similar to that in Central West Baltimore, is also working to create a mixed-income community. I hypothesize that the distinct cultures of these countries yield different approaches to engaging the community in the planning process and prioritizing for these urban revitalization projects.

My preliminary analysis suggests that my hypothesis was correct: that Central West Baltimore would have low levels of community engagement and priorities focusing on bringing middle and upper incomes into the neighborhood, while Regent Park would have high levels of community engagement in the planning process and priorities that focus more on existing residents. This study is critical because these different approaches to planning the Central West Baltimore and Regent Park projects could lead to different outcomes including high or low levels of displacement of existing residents, destruction of community networks, gentrification, and/or racial segregation. Countries must approach urban revitalization in a way that effectively provides an increase in access to resources without destabilizing communities.

SHE ASKED FOR IT:  
THE PERPETUATION OF DIGITAL RAPE CULTURE IN SOCIAL MEDIA

Laura Alexander

My honors thesis focuses on “digital rape culture”, a term I coined to refer to societal acceptance and normalization of sexual violence against women that occurs online. Specifically, I investigate the perpetuation of digital rape culture in social media using a feminist rhetorical lens, which shapes my analysis of artifacts such as memes, tweets, and blog posts.

Ultimately, I conclude that digital rape culture is perpetuated on social media in three ways: by normalizing, necessitating, and mocking sexual violence. However, while social media perpetuates notions that sexual violence is evolutionarily necessary, normal, and humorous, social media can also function as a platform for *changing* the rhetoric of digital rape culture. Currently, digital rhetoric of sexual violence is laden with survivor blaming and shaming. It is possible, however, to reform this rhetoric. By studying blogs—all created by female-identified survivors of sexual violence—I conclude that when survivors create online communities, the language of sexual violence shifts from victim blaming to survivor support.

This reform rhetoric, however, is currently isolated to small pockets of digital spaces. Yet these conversations—though limited—challenge normative notions of sexual violence while simultaneously providing survivors with support and validation.

## THE RED RECEPTACLE: REPRODUCING SOCIAL DIFFERENCE THROUGH MACRO AND MICRO MOVEMENTS OF THE RED SOLO CUP

Morgan Atanasio

In an independent study, I explore the question: “Do certain corporeal expectations and social differences emerge through the various drinking practices and bodily performances that are attached to the red solo cup at the micro and macro level?”

My interest in this project stems from my previous course work in Women’s Studies and dance, specifically my course work in “The Body Politic,” “Food, Feminism, and Health,” and “Laban Movement Analysis”. Additionally, my involvement on the HWS campus as a student-athlete, my Holistic Health Sciences background, and my passion to engage with academics from a critical lens motivate me to conduct this independent study.

To explore my project’s core question, I began by engaging with literature and studies that were relevant to food justice, alcohol and drinking culture, dance/performance, and body movement last semester. This semester, I have continued to investigate this question through data collected through various qualitative research methods, including participant observation of “solo cup infused” spaces on and off the HWS campus, individual semi-structured interviews, and various movement exercises.

At the end of this theoretical and empirical investigation, I hope to contribute a nuanced understanding about the ways that material objects, like the Red Solo Cup, come to be practiced or enacted: because college drinking culture is known to place particular pressures on different bodies (through, for example, binge drinking practices, or high incidents of date rape drugs), understanding and exploring how the body comes to be enrolled in drinking practices through the solo cup can shed light on this phenomenon and position us to be better able to effectively intervene in destructive behaviors.



THE FINISH LINE: MY FOUR YEAR MARATHON  
AT WILLIAM SMITH COLLEGE

Morgan Atanasio

My presentation will be a reflection of my own experience and journey as a student- athlete through four academic years at William Smith College. As a Holistic Health Sciences major and Biology minor, my interdisciplinary experience at Hobart and William Smith Colleges has provided me with the ability to engage critically with academics and larger world issues.

My presentation will be examining my four year journey using critical reflection and a narrative approach. I will provide visual framework at the beginning of each “chapter” of my experience to reflect upon my learning and growth at that moment in time.

I feel obligated to share this journey of mine with this year’s Senior Symposium audience first because of the ongoing curriculum review, and second to help others to recognize the ways they can reach the full potential of their undergraduate education. I hope that other students, faculty, staff, and even community members can gain from this.

## PS1 INHIBITION: A NEW OUTLET FOR ALZHEIMER'S DISEASE TREATMENT

Andrew Baird

Collectively, neurodegenerative diseases are some of the greatest challenges that face the healthcare system, as the underlying molecular mechanisms causing this class of diseases are not well understood. Alzheimer's Disease (AD), one of the most studied neurodegenerative disease, affects over 25 million people across the globe. In modern medicine, most AD treatments have little therapeutic effectiveness, as they are only designed to alleviate disease symptoms. While the causative agent contributing to the onset and progression of Alzheimer's Disease onset is still under debate, two hypothesis have historically hallmarked AD researcher's attempts to understand the disease pathology: the amyloid hypothesis, and the tau protein hypothesis. This talk will discuss two key proteins, PS1 and GSK3, that each play an integral role in bridging the pathways proposed by these two hypotheses. PS1 inhibition will then be presented as a new potential AD therapeutic that would have greater therapeutic specificity and minimal adverse side effects.

## FARMESTER: A SEMESTER ABROAD IN GENEVA, NY

Lelia Barden and Katie Paige

We will be presenting a proposal for a semester-long program at Fribolin Farm, on White Springs Lane in Geneva. This “Farmester” will provide the opportunity for 8-10 students to live and work on a 38-acre farm. The full four-credit course load will include two relevant classes, in addition to both a group and individual project. With an emphasis on sustainability, the program will focus on problems and solutions in current ecological, economic, and social systems around the world. Students of all disciplines would be invited to apply for this unique program, which would be one of the first of its kind across the country. Modern approaches to agriculture, such as green house technology and experimental seed crossings, will be some of the core foundations of this program.

The mission of this project is to provide students with the opportunity to gain practical skills in food and agricultural research through hands-on experience. This will be a business friendly program, with a goal of working with local farmers on matters such as crop diversity and food security. The crops will be cultivated for the personal and college use, but will not be competing against local farmers. The Farmester would offer an enriching experience, and would encourage a small yet strong community full of ideas and knowledge.

This proposal is the culmination of research into similar programs, as well as input from students, faculty and staff at the Colleges. We aim to create a plan that could be implemented by Spring 2016.

CONVEYING HUMAN COMPLEXITY THROUGH A LACK OF MUSICAL COMPLEXITY:  
EXPLAINING GENIUS, OBSESSION, AND MIND AT WORK THROUGH  
TRANSFORMATIVE ANALYSIS IN FILM SCORES

Steve Barnard-Webster

My project will focus on the way in which a Minimalist style of composing—a New-York-based movement started in the 1970s—has made its way into the film music world and has come to represent meanings for movie scenes and ideas. Specifically, I will focus on how extensive repetition, lack of a clear tonal center, and minimal pitch movement correspond to a film’s visual aesthetic to convey meanings such as genius, obsession, and brain work. How does this music, which lacks the harmonic complexity of Bach or Mozart, represent human complexity?

In my exploration of scenes from movies with scores by well-known Minimalist film-music composers Philip Glass, Thomas Newman, and Hans Zimmer, I employ a Neo-Riemannian analysis, or an analysis of chordal transformations, mapping the movement of notes in musical space. These movements don’t reinforce a specific key, placing emphasis on other factors like repetition and smooth motion between notes.

In film soundtracks, such musical constructions have come to represent human experiences such as obsession and insanity, genius, mental computation (especially mathematical), and transcendental human behavior, dreams, or thoughts. Examples from *The Hours*, *A Beautiful Mind*, and *Inception* exemplify this pairing of music and filmic representation, demonstrating how these intangible, “unfilmable” notions of thought and emotion can be portrayed through the music.

## ENTERING ECSTASY: THE HOLY PENTECOSTAL EXPERIENCE

Jasmine Rose Barnes

In Pentecostal faith, ecstatic experiences occur and are normalized within a collective conscious. In this project for REL 305, “Tongues of Fire” I will be seeking insight as to how Pentecostals make sense of their engagement with ecstasy, and the benefits that come out of tapping into the force of this mystical reality.

To provide background for this study, I will examine anthropological theory on collective consciousness and the sacred. Additionally, I will use participant observation and other ethnographic research techniques to explore the life paths and personalities of Pentecostal practice in Geneva, New York. I hope to illuminate how the Holy Spirit is channeled.

## HWS FARM: GROWING GREENS AND GOING GREEN

Jackson Bartell, Brent Clarke, and Alice Theibault

The Colleges were recently donated a 35-acre plot of agricultural land less than a mile from campus. The Environmental Studies capstone senior project, ENV 301, is focused on creating a comprehensive plan for the land that would facilitate interdisciplinary academic work and involve the greater Geneva community.

The capstone class split into small groups focused on different aspects of the possibility of the property. Our group is focused on polyculture cultivation and implementing greenhouses on the property. Our plan will involve student workers and community members maintaining the crops year-round. Our program would incorporate a soil amendment known as Biochar as a research opportunity for science courses and example of an organic, sustainable farming practice for local farmers. Our polyculture program is compiled from ideas contributed by faculty stakeholders, community experts, and existing college farms in order to create a multi-faceted plan that will forever enhance the HWS curriculum, enrich the Geneva community, and create new potentials for sustainable collaboration and the spread of knowledge.

ROBBING BLACK MUSIC:  
HOW CULTURAL APPROPRIATION PERPETUATES POVERTY IN JAMAICA

Zack Bassage

Using the examples of Paul Whiteman of the swing era, and Elvis Presley as the usher of Rock 'n Roll, I hope to illustrate that traditionally black music continues to be limited by a system that favors white musicians. This idea will be shown in the modern context of successful white musicians who play Reggae. If the music industry is race-neutral, then why are African American Reggae musicians not obtaining the same success as many white reggae bands like Sublime, Slightly Stoopid, Giant Panda Guerilla Dub Squad, etc.?

Relying upon the first-hand writing accounts of white Reggae musician James Searl, I also hope to illustrate the modern effects of cultural assimilation of a predominantly black music and how this assimilation helps perpetuate the poverty in Jamaica. If, as Searl argues, foreign white business interests control the primary industry of Jamaica--tourism--then what does this fact imply for Jamaica's future? How does the assimilation of Jamaican reggae into white suburban culture affect the poverty that exists in Jamaica?

## FINANCIAL REGULATION: WHAT CAN WE LEARN FROM CANADA?

Nicholas Bergdoll

After the real estate bubble burst in the United States, helping to cause the global financial crisis, the public became aware of the intense volatility of the financial sector in the United States. Before the crash, citizens of the United States were given easy access to loans. This access caused many who could not have previously qualified for homeowner loans to enter the real estate market through sub-prime lending mechanisms such as NINJA loans: no income, no job, and no assets. After financial institutions had packaged these sub-prime mortgages together, credit rating agencies would then intentionally overvalue the worth of these mortgage bundles, often giving them AAA ratings. However, after the bubble burst, financial institutions were forced to open their books, as they sought major bailouts from the government, revealing a shocking number of toxic assets on their balance sheets<sup>1</sup>.

In this paper, I will examine the differences between the regulatory practices of the United States and Canada towards financial institutions. I will then compare and contrast how the United States and Canada differed in regards to their regulation, or lack thereof, of the real estate market, leading up to and during the Global Financial Crisis. I will also show that an adoption of Canada's stricter real estate market regulations could have helped mitigate the effects of the Great Recession in the United States. Finally, I will propose several regulatory policies that can potentially help the United States avoid another Great Recession.

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<sup>1</sup> The Financial Crisis Inquiry Commission. *The Financial Crisis Inquiry Report: Final Report of the National Commission on the Causes of the Financial and Economic Crisis in the United States*. Washington, DC: U.S. Government Printing Office, 2011.



## THERE'S SUN IN GENEVA?

Andrew Berlanga and Marjorie Mitchell

A 38-acre farm on White Springs Lane was recently donated to Hobart and William Smith Colleges. As part of the Environmental Studies Senior Capstone course, we are creating land use proposals for the farm.

Our specific interests led us to proposing renewable energy projects on the farm. By doing so we will be demonstrating renewable energy opportunities, expressing HWS's commitment to sustainability, and working towards the President's Climate Task Force's Commitment to achieve carbon neutrality by 2020.

We conducted research on the viability of different renewable energies to conclude that these are the best options for this property. We interviewed experts throughout the state and visited various successful project sites. We also assessed case studies and calculated economic paybacks in order to justify our projects.

Our group is proposing for a 10-acre solar array and a small micro hydro-electric turbine to power the campus and farm. As a class, we are developing a comprehensive plan for the new farm that will be presented to the President Gearan and the farm committee.

## CASTLE CREEK, STORM DRAINS, AND WHY RUNOFF WATER MATTERS

Shannon Beston

Storm drains carry runoff water from roads and parking lots to various bodies of water. In urban areas, this movement of water from impervious surfaces to natural water sources carries a multitude of implications. In general, storm drains in urban watersheds induce channelization, decrease water quality, and impact aquatic biota. These changes in stream condition are symptoms of the “urban stream syndrome.”

For the past two years, water quality and macroinvertebrate community structure of Castle Creek in the Finger Lakes watershed of New York state have been monitored on a monthly basis. Using this data coupled with GIS generated maps that delineate the storm drainage network in downtown Geneva, I have been able to determine how the presence of roads and storm drains may be impacting Castle Creek.

In an effort to increase awareness on the fate of substances placed down our storm drains, I helped plan a project to label the storm drains around our campus. In this presentation, I will discuss the current state of Castle Creek’s health and how an urban setting has played a role in its declining condition. I will then give an overview on the storm drain labeling project and its importance to the HWS and Geneva communities.

BLACK SPOT DISEASE:  
THE RELATIONSHIP BETWEEN FISH BODY CONDITION,  
INFECTION PREVALENCE, AND CYST ABUNDANCE

Shannon Beston

Parasitism is defined as a state where two organisms coexist, with one organism obtaining its energy from the other. Parasite relationships with their host are an integral part of ecosystem dynamics. Black spot infection, caused by a digenetic trematode, employs an intricate life cycle utilizing three hosts. Reproduction occurs within the digestive tract of the kingfisher and moves from snails to minnow species as the parasite reaches different stages of sexual maturity.

This parasitic infection has been observed in increasing prevalence in fish populations of the Seneca Lake watershed. The infection status of two host species *Rhinichthys atratulus* blacknose dace and *Semotilus atromaculatus* creek chub was closely monitored in June 2013. By electrofishing a 75-meter site at five infected tributaries at the beginning and end of the month, the possible relationship between infection and body condition was studied. Exploratory dissections and a photo analysis were used to identify cyst location and abundance.

My results indicate that there is a slight decrease in body condition of infected fish when compared to non-infected fish and that there is a relationship between cyst abundance and body condition in creek chub hosts. Exploratory dissections suggest that the parasite is encysting on some internal anatomy and that encystment is not random. These conclusions point to a need for continued research over consecutive field seasons.

## SUSTAINABLE BUILDING PROPOSAL FOR WHITE SPRINGS LANE PROPERTY

Alyssa Biagini

Our project seeks to determine what role the buildings on the recently donated farm property on White Springs Lane can play in the HWS community as well as the Geneva community. The goal of the project is to present a working plan for the buildings that will showcase how sustainable design ideas, including locally sourced materials and energy efficient fixes, can be used to demonstrate a sustainable home. In addition, we will present a floor plan that will incorporate a kitchen, classroom, and living spaces and explain how these are sustainable.

In addition to presenting a green design, we also will propose spaces that emphasize community and a learning environment. Our group's project is a part of the larger ENV 301 capstone course's plan to incorporate all academic disciplines and the Geneva community into the plan for the farm. The buildings can potentially achieve this by providing a learning community and space for all to enjoy, through farm classes, summer camps, and cooking classes. Ultimately we argue that it is important students have a voice on what happens on this property as we create a sustainable HWS community.

NAVIGATING CULTURAL, TEMPORAL, AND SPATIAL DISLOCATION  
OF DIASPORA PEOPLE: A CASE STUDY OF VIỆT KIỀU AND  
VIETNAMESE-AMERICANS IN CALIFORNIA

Lauren Blake-Whitney

The conclusion of the Vietnam War in 1975 marked the beginning of a mass exodus of Southern Vietnamese from their homeland. In the years between 1975 and 1990, economic and political instability forced over 2 million Southern Vietnamese from their homes. Called *Việt Kiều* or ‘heritage Vietnamese,’ this wave of Vietnamese migration perpetuated establishment of “little Saigons” across the globe.

My interest in the post-war Vietnamese diaspora and their subsequent resettlement was manifested in my abroad experience in Hanoi, Vietnam and in my own California roots. This project will combine these interests through a study Việt Kiều and the subsequent generations of Vietnamese-American. My study focuses on Vietnams communities in California, one of the largest populations of Vietnamese in the country. Examining the experiences of immigrants and their children, both in their own words and in the words of others, I ask: how do personal memories of loss, guilt, and dispossession create a collective identity that is unique from other U.S. immigrants? How is this “collective identity” exhibited in later generations of Vietnamese? I hope to juxtapose these generational perspectives by critically examining the cultural, historical, and social contexts shaping these collective identities: through oral histories, scholarly articles on immigration, dislocation and transnationalism, demographics and statistical data of the Vietnamese population.

## DECOLONIZATION OF DIET: A VISCERAL APPROACH TO ANALYSIS

Abigael Blumenthal

Recent feminist and geographic work on food, health, and the body have pointed to concerns over the ways in which perceptions and practices of nutrition can reinforce social inequalities and further disempower the very people that are considered most “in need.” In light of these concerns, I am interested in exploring potential strategies for nutrition intervention that appear likely to account for questions of inequality and disempowerment.

“Dietary Decolonization” is one particularly interesting and unique way of framing nutrition intervention efforts. Dietary decolonization refers to changes in food production, distribution and consumption practices that arise out of disenfranchised groups’ consciousness of their historical and current relationship to colonialism. The umbrella term of “decolonization” encompasses a wide array of food projects that are aimed at supporting sovereignty and autonomy in the food system, and/or seek to facilitate food production and consumption outside of colonial power. Through survey and interview based research, as well as discourse analysis of blogs, Facebook, and other social media sites, I have gained insight into the goals and successes of these intervention initiatives. I draw from feminist and geographic theories on food, health, and the body in order to discuss the power of such political framing to mobilize and empower disenfranchised groups who are risk for dietary disease.

## CLARIFYING HYDROFRACKING

Richie Bonney

The term “hydrofracking” is being used throughout public discourse to describe a variety of complex practices in the extraction of shale oil and natural gas. My presentation will focus on unpacking the term and clarifying the processes behind it. More importantly, I will conduct a thorough analysis of the hazards posed by these methods of extraction to public health and the surrounding environment, and the subsequent responses from members of the oil and natural gas industry.

By exploring the environmental risks and industry responses, I will identify key stakeholders in the process and the interests and risks they assume. I will then discuss, more broadly, the policy approaches taken by various states that have pursued shale gas and oil extraction and the impacts of said policies on the various stakeholders in each state. My hope is to clarify the facts surrounding the term “hydrofracking,” which has proven to be a difficult task in light of the polarized discourse surrounding the topic.

## THE UNKNOWN CAN BE THE MOST REWARDING

Sasha Borenstein

As soon as I arrived at HWS, I knew that it was not going to be an easy four years academically. I knew I wanted to pursue a career in the world of investigation and homicide; I just didn't know how I was going to get there.

Fast forward to the August before for my senior year, when I was presented with the opportunity of a lifetime: my mentor, a Hobart alum, invited me to the 26<sup>th</sup> Annual Henry F. Williams Homicide Seminar. Investigators from all over the country and world are personally invited to attend this very prestigious conference. This seminar allowed me to meet the best in the field and ultimately figure out where I fit in. This led me to my internship this semester at the Geneva Police Department. What I'm learning in my internship has allowed me to make connections to what I've learned in the classroom, as well as seeing that what I've learned in the classroom directly relates to my career path.

I want my audience to understand that if I had only focused on the academics and grades, I wouldn't have taken full advantage of an HWS education.



## BRINGING SHADOW BANKS INTO THE LIGHT

William Boyle

The 2008 financial crisis was the culmination of nearly three decades of financial innovation that created and implemented many new products and tradable instruments. This project seeks to investigate, diagnose, and discuss the emergence of Shadow Banking in the early 1970's and its contributions to the eventual meltdown of the global financial system.

Market and political factors in the 1970's limited commercial banks' ability to offer high interest rates to consumers on deposits. High demand for more competitive rates allowed new institutions to manifest: these institutions would soon be known as Shadow Banks. Financial innovation in the 1980's and 1990's completely transformed the traditional model of banking into a system that thrived on credit and debt. Such innovation helped forge an interconnected market that multilaterally transferred risk across balance sheets and international borders.

This study will use Hyman Minsky's book, *Stabilizing an Unstable Economy*, as a theoretical framework to analyze Shadow Banking and its contribution to the financial crisis. Based on the conclusions of this study I will recommend a government policy that will properly regulate Shadow Banks and financial markets in order to prevent future economic crises.

## FEMINISM AS A DEVIL TERM: HOW NEWS BUILDS IDEOLOGY

Kristyna Bronner

There is a lot of discussion about media bias today—if you are a Liberal, you must watch MSNBC, if a Conservative you must trust every word said by Fox News. We may believe that our ideology shapes which network we choose to watch, but without our knowing, the news is actually shaping our ideology through language.

In my project, I explore how news builds ideology through a rhetorical analysis of a Fox News article written by columnist Suzanne Venker. I use cluster criticism, a method of rhetorical analysis established by Kenneth Burke, to analyze Venker's intention. Burke argued that artifacts reveal "the worldview or...terministic screens of the rhetors who created them." I suggest that Venker's key terms and their surrounding clusters illustrate her deeper anti-feminist ideology.

## THE VALUE OF OUTDOOR EDUCATION AS A MEANS OF EXPERIENTAIL LEARNING

Natia Bueno

My project will evaluate the potential value of outdoor education as a means of experiential learning. Outdoor Education uses the outdoors to promote and enable educational and behavioral growth in its participants.

My interest in this project came from my trip to Wales, where I had the chance to mix outdoor education with experiential learning. The combination of the two led to a new knowledge about activities done in the outdoors as well as lessons that can only be learned in an experiential learning environment: we are not only active participants in the learning process, we make the learning process. The project will discuss the idea of challenge by choice, and the four stages of adventure that we learned about during the trip.

When a student is actively involved in experiential education, the student becomes more actively involved in the learning process, and the learning experience becomes greater. Outdoor Education provides opportunities to apply knowledge in real-life situations and improves the understanding of the relationship between students and the outdoor environment.

## THE CRAFT OF COMPOSITION THROUGH WRITING AND DANCING

Bonnie Bushnell

My presentation explores the various tools and techniques used in dance and creative writing and outlines the similarities in these two creative processes.

I have discovered the overlap that exists through classes I've taken to complete my double majors in Dance and English. I began to consider the similarities while performing tasks in my Creative Writing and Dance Composition classes, such as having to write a piece incorporating a list of words or creating a piece of movement based on key words. I have learned in both disciplines not just to lean on my strengths; a successful piece of composition must be dynamic and not predictable. I have also been able to make connections between the editing and revision process in dance and writing. Just because a sentence is grammatically correct or a transition gets the dancer from one movement idea to the next does not mean the composition is successful. All parts must support meaning making in movement and words.

I will demonstrate through examples from both Dance and Creative Writing projects how I have drawn these connections. I hope the audience will understand how two different creative processes inform each other and will take away lessons that transcend these two forms of art.

## PHYSICAL ACCESSIBILITY AT HWS

Janet Camp

This is a Disabilities Studies project applied to campus life at Hobart and William Smith Colleges. Stemming from the course *Health and Social Justice*, this study was designed to answer two questions: 1) How does the HWS community view physical accessibility on campus? 2) What ideas do students, faculty, and staff have to ensure that all buildings on campus are accessible for people with physical disabilities?

To answer these questions, I used “tabling” at Scandling Center, where students were asked to write down their thoughts on physical accessibility at HWS, and an anonymous campus-wide survey. To share the results of this survey, I held a forum open to HWS community members. I look forward to sharing my findings again at the Senior Symposium.

This project serves as a preliminary step. It is important that the conversation about accessibility at HWS continues, especially among the departments that are responsible for ensuring that every individual who attends or visits HWS has access to all facilities.

## THE INFLUENCE OF RELIGIOSITY ON BODY SANCTIFICATION AND BODY IMAGE

Jocelyn Canty and Alexandra Welych-Miller

The relationship between religion and the body is deeply embedded in cultural messages. Evidence for this relationship can be found in research that examines the associations between religion and the body, including the influence on body image satisfaction and sanctification of the body.<sup>1</sup> Many religions have beliefs regarding the body that may structure how people view and understand their bodies, which may influence believers to apply deeply rooted messages about eating, health, and body image to their own personal lives.

While research shows that general religiosity leads to body sanctification and positive body image perception, it is possible that specific religious beliefs can influence these variables differently.<sup>2</sup> Our study investigates the relationship between body objectification and sanctification of the body by priming participants with a religious or nonreligious text, either the story of Adam and Eve, Persephone, or a *New York Times* article. The religious prime (Adam and Eve) has undertones that we hypothesize would make participants likely to negatively objectify their body and negatively sanctify their body. Additionally, participants may think of their body as shameful, and send messages to women that their body and appetite need to be controlled.

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<sup>1</sup> Boyatzis, C. J., Kline, S., & Backof, S. (2007). Experimental evidence that theistic-religious body affirmations improve women's body image. *Journal for the Scientific Study of Religion*, 46(4), 553-564.

<sup>2</sup> Johnson, M. K., Rowatt, W. C., & LaBouff, J. P. (2011). Religiosity and prejudice revisited: In-group favoritism, out-group derogation, or both? *Psychology of Religion and Spirituality*. Advance online publication. doi: 10.1037/a0025107

## FROM RYTHYM AND MEMORY TO NECESSITY AND INVENTION

Ben Casola

The goal of my project is to elucidate the developmental aspects of the growing voice of a writer. The voice of a writer, as defined in my project, entails an author's style, persona, attitudes, and character within the scope of literary components. Most writers create a unique voice using distinctive diction, punctuation, syntax, rhythm, and structure. Developing a voice requires a slow awakening to texture, oddity, and the tactile – bringing one's idiosyncrasies and inner mysteries into the light of discovery for audiences to share.

After an anthology of my work, called *Winterbrook*, was published in high school, I viewed my works as a means of personal growth due to the cathartic nature of synthesis and the accrued understanding of language and expression. My presentation will demonstrate how the diction, originality, and syntax of my voice have become less about stored rhythms and memory and more about necessity and invention. In my presentation, I will share works over the course of my literary career that display the characteristic progress of voice. In addition to analyzing how my voice has shifted, I present the factors that both facilitated my growth and apply to upcoming writers such as: review and feedback, vocabulary expansion, constant generation of material, exposure to new works and styles, and moving out of ones' comfort zone.

SEXUAL PREJUDICE REDUCTION:  
THE IMPACT OF AN LGBT SPEAKER PANEL AND LECTURE

Morgan Caudill

Despite decades of advocacy, the LGBTQ community still faces a great deal of discrimination and stigma in American society, both on the interactional and institutional levels. My research addresses the following question: What can be done to address these instances of discrimination and to rid the LGBTQ community of negative sexual stigma?

Past research has suggested that contact between ingroup and outgroup members can work to eradicate such prejudices. My research seeks to make use of this hypothesis by examining which contact type (intimate versus distant contact) is most effective in sexual prejudice reduction. Participants will experience one of three conditions: the intimate contact condition in which they will attend an informal, interactive panel consisting of gay, lesbian, bisexual, and transgender individuals; the distant contact condition in which they will attend a formal lecture to receive information about the LGBTQ community; and the third condition consisting of no intervention. Participants will report their attitudes towards LGBT individuals before, directly after, and three weeks after the interventions occur. In addition, the influences of religiosity and political orientation on prejudice reduction will be investigated.

Ultimately, I hypothesize that the intimate contact condition will generate more positive attitudes towards LGBT individuals; such results would present intimate intergroup contact as a promising path towards sexual prejudice reduction and eradication.



## METAL AND MASCULINITY: THE ENGENDERED GENRE

Thomas Charest

Heavy metal, Math metal, Doom metal, Progressive metal, Neo-classical Progressive power metal: who do you imagine is playing? This presentation explores masculinity in subcanons of various genres of metal, addressing the question of what it means to identify as a man or enact gender in each.

I approach this question through three lenses: gender studies, canon theory, and music theory. First I will examine traditional stereotypes of masculinity, and how this can be detrimental to those who are stuck in an outdated view of masculinity, evading a particular masculinity. I will track the evolution of canonical thought from historical academia to modern canonization through the Internet and fan bases of musical artists. I will examine the “Great genius” composer, and the “virtuoso” as roles traditionally filled by men. Finally I will track how musicians in these subgenres enact masculinity through sonic transgression.

Analyses of musical examples from metal subgenres spanning the past 20 years show implicit and explicit mandates of a masculine gender role as expressed through musical parameters.

## MIND-BODY CONNECTION: INSEPARABLE AND INFLUENTIAL IDENTITIES

Karah Charette

The goal of my project has been to explore ways in which the mind-body connection has been established in a dance environment, and then to translate that experiential modality and analytical approach into a PT environment. My main question for this project is: How can the mind-body connection be integrated into Physical Therapy programs? As a dancer who has worked with the body from both functional and artistic perspectives, I have come to realize the lack of acknowledgment of the body as an expressive and mindful instrument within the PT field.

My primary method of research this semester has been field-based by physically creating approaches to movements that establish a greater sense of the mind-body connection and observing the results. Through new exercise plans that utilize dance movement and visualizations, as well as an exploration of Eastern and Western modalities to combine yogic approaches to the PT field, I have explored the benefits of mind-body integration. The significance of this research lies in the idea that establishing a mind-body connection can allow practitioners to treat clients holistically and individually, providing a more enriched healing process. In addition, as clients seek to establish a deeper mind-body connection, they are able to develop an understanding of their whole selves and begin to think more in terms of prevention and lifelong health, rather than being solely reactive to pain and focused on treatment.

## HWS FARM: COMPOSTING

Dylan Corbett, Kayleigh Gregory, and Alex Roberts

Hobart and William Smith Colleges recently purchased the Fribolin Farm, a 38-acre farm located on White Springs Lane. As part of the environmental studies senior capstone, we are creating a proposal for various land uses for the farm.

Working with other groups that are assessing other potential uses for the land and buildings, our group is specifically focused on the feasibility of a medium-to-large composting operation that involves the use of compost collected at the Colleges from Saga, the Cafe, and the Cellar Pub. To develop this plan, we have conducted research on other college's composting programs, local large scale composting facilities, and reached out to members of the colleges as well as others in the community that have experience with composting. We will continue to reach out to members of the community, companies that provide composting equipment, and on-campus resources to develop a logical and feasible composting operation on the farm.

At the end of our research we will have a firm proposal that is feasible and logical to present to President Gearan and the farm committee.

AN APIARY AT HOBART AND WILLAM SMITH COLLEGES:  
AN ETHNOGRAPHIC STUDY

Andrew Creary and Nick Marenakos

In addressing the possible uses for the White Springs Lane land recently acquired by Hobart and William Smith Colleges, it is important that investments serve to benefit a diverse group of individuals, and all projects should be cost-effective and relevant to a wide range of study. We propose that an apiary program is a viable, hands-on approach to open doors in the Social Sciences, Humanities, and Biological Sciences.

Preliminary ethnographic research and analysis shows that when properly managed, honey bees can serve to educate interested students on campus, as well as curious individuals within the Geneva community, as the practice continues to make its way into the mainstream. Further, our investigation of the subject has shown that the potential benefits of bringing bees to campus substantially outweigh the costs of implementation and maintenance.

This project is one portion of the plan to be proposed by students in the ENV 301 capstone course.

## QUANTITY OR QUALITY IN READING EDUCATION

Emily Davidowitz

What is more important for young children learning to read, quantity or quality of work? After completing a classroom placement in the British equivalent of pre-K, volunteering in Geneva Head Start/Universal Pre-K, and observing the differences in instructional styles and curriculum design in these two classrooms and countries, I am left with this question. Various scholars in the field of early childhood education, including Montessori, Richardson, and Hart and Risley, disagree on an answer.

The goal of my independent study project on emergent literacy is to examine how different types of schoolwork completed by four and five year old children lead to effective reading practices. With the intention of entering the field of early childhood education after graduation, I want to know what are the best practices of teaching emergent readers. How do teachers create classroom cultures that value individualized expression while cultivating appropriate literacy habits? To what extent is best for the students' academic outcomes in the long run? Through extensive research and classroom observations, I intend to answer some such questions.

## BULLETPROOF BELIEFS OF PENTECOSTALISM: A MISUNDERSTOOD FAITH

Mackenzie Davison

Pentecostalism, a version of Christianity whose roots come out of a Protestant redefinition of Christianity based on gifts from the Holy Spirit manifesting in its followers, is supported by patterns of evidence determinedly defended by its believers. Can these patterns of evidence be understood by an outsider? It is important to find out where the vehemence and certainty of such a compelling belief system comes from, instead of dismissing it.

Pentecostalism is the most rapidly growing Christian faith worldwide. Believers are misunderstood as snake-handling, speaking in tongues, Rapture day fanatics who buy into a system of belief without any logic to stand on. I expect to show that although Pentecostal believers do not use mainstream secular logic, they do have a layered, rich system of support through Biblical interpretation, physical manifestations of the Holy Spirit, and most importantly the belief in a sacred, Holy Being.

My research involves existing theory and research and participant observation at several Geneva Pentecostal and Charismatic churches.

## LOSS OF CITRON KINASE LEADS TO INCREASED RETINAL GANGLION CELL PRODUCTION

Katherine Delaney

The cell cycle is a series of tightly coordinated events involving the replication and division of cells. Its regulation is key to prevent the manifestation of diseased states. If excessive, unregulated cell division occurs, various types of cancers may result. Conversely, if inadequate cell division occurs, cells could undergo inappropriate apoptosis, and if this occurs during development, then growth-related abnormalities could result. Citron Kinase is a protein that is responsible for proper cytokinesis<sup>1</sup>, a crucial step in the cell cycle.

Failure of proper cytokinesis leads to an increase in the number of binucleate cells and a decrease in the number of properly functioning cells. When Citron Kinase is not acting properly, it leads to failure of proper cytokinesis that only affects the central nervous system. One of the main organs of the nervous system is the brain. When there is a loss of citron kinase function, there was a decrease in brain size that ultimately resulted in death<sup>1</sup>.

Citron Kinase undergoes alternative splicing that gives rise to different isoforms that attribute different progeny from the proliferating cells. Since the brain and retina are derived from the same embryonic tissues, the absence of Citron Kinase protein would have an equally drastic impact on the retina. My goal through this research was to try and understand how cell cycle regulation influences the path towards differentiation of retinal precursor cells to neurons of the retina, and how different isoforms of Citron Kinase come into play in this pathway.

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<sup>1</sup> Cogswell, C.A, M.r Sarkisian, V. Leung, R. Patel, S.r D'Mello, and J.j Lo- Turco. "A Gene Essential to Brain Growth and Development Maps to the Distal Arm of Rat Chromosome 12." *Neuroscience Letters* 251.1 (1998): 5-8. Print.

## DIVINE HEALING: MORE AFFORDABLE THAN UNIVERSAL HEALTHCARE

Sarah DePillo

Pentecostalism, a form of Christianity, has grown rapidly and broadly as a religion and as a social movement through its unique ability to connect with and support low income and minority communities. Thus, the Pentecostal church is playing a vital role in the lives of individuals and communities across the U.S. amidst our currently high level of socioeconomic inequality.

Could the growth of Pentecostalism within disadvantaged populations be related to the Pentecostal belief in divine healing? My research explores whether divine healing serves, among other things, as a social service surrogate for those who have limited or no access to healthcare. Through a review of existing academic theory and participant observation research in several Geneva churches, I hope to illuminate the ability of the Pentecostal church to provide for socioeconomically and racially excluded populations in a way that governmental bodies cannot, specifically through the lens of an examination of divine healing as it relates to healthcare.



SPEAKING IN TONGUES AND THE HOLY SPIRIT:  
A CATHOLIC'S PERSPECTIVE

Erica DiMaria

Speaking in tongues, or glossolalia, which involves spontaneously speaking in an unrecognizable language, is a practice common in both Charismatic Catholic and Pentecostal Protestant churches. How does speaking in tongues function for both groups?

The goal of my research is to show personal experiences through speaking in tongues that differ from one another in the Catholic faith. I became interested in this topic after speaking to my Aunt, a Carmelite Sister, about her friend, another Carmelite Sister, who speaks in tongues during many masses. My project will draw on research and first person accounts from Pentecostalism broadly conceived. I hypothesize that people with a deep connection to their faith are given the gift of speaking in tongues.

## COMBATTING THE MILITIA: PEACEFUL RESISTANCE WITHIN SOUTH AFRICA

Emily Dove

Over the past two years I have spent my time at HWS and abroad studying implications of dance within South Africa. This interactive presentation will delve into the functions of the physical body as a mode of non-violent protest.

The idea of the non-violent--yet still physically active--body within protest is one that is not commonly publicized or praised. In today's "world news," physically violent protests come to the forefront and we see, for example, violence uprisings in Ukraine. Under the surface of these violent protests is a sleeping beast that is often underestimated: that of the non-violent physical protest, ranging from the historic sit-ins for civil rights in Alabama to the more recent "Standing Man" epidemic in Turkey.

My Honors Project focuses on the success of non-violent physical protest within South Africa during the rise of apartheid. Within South Africa, dance is one of the main mediums that non-violent physical protest has taken. In looking at South Africa's fight during the implementation of apartheid, I will discuss the success of dance as a form of non-violent physical protest. The human body moving, in solidarity with other bodies, without expression of violence, is a powerful form of resistance. During my presentation, I will invite the audience to comment and to move physically, to experience how dance was used within South Africa to fight apartheid. We will focus on the dance Toyi-Toyi, drawing attention to its somatic energy, exemplifying the power of the arts as a form a social change.

## STUDENTS' VISCERAL MOTIVATIONS BEHIND FOOD WASTE

Lia Duffy

The purpose of this research is to explore the motivations behind students' waste of food at Hobart and William Smith Colleges. Drawing from Gray Hawkins book *The Ethics of Waste: How We Relate to Rubbish*, this research investigates his claim that waste is able to constitute the self through our personal habits or embodied practices. Hawkins argues "Waste is reduced to a product of culturally and historically variable human practices; what we want to get rid of tells us who we are and what we want to get rid of also makes us who we are" (Hawkins 2).

My research will unpack the complex motives behind why individuals choose to waste food and the embodiment associated with that waste. What emotional and bodily relationships do individuals have with waste and in what ways are these shaped by their social and environmental identities? My methods will be in depth interviews with a diverse group of students from Hobart and William Smith Colleges who attain a meal plan at the dining hall, Saga. Photovoice is a second method that will enable students to provide their own journaling through photographs of the food they are wasting. Both of these methods will assist in unpacking the complexities behind waste and the college student's unearthed motives. Findings could lead to self-awareness in reference to waste and better waste management practices in universities and around the world.

BUNGEE JUMPING AT VICTORIA FALLS:  
AN ETHNOGRAPHIC APPROACH TO UNDERSTANDING TOURISM

Abby Evans

This project for an independent study in Anthropology focuses on the growth of a tourist-dependent location under both cultural and environmental threat: the Victoria Falls.

The Victoria Falls are the world's largest waterfalls and are split between the political borders of Zimbabwe and Zambia. The site has grown to be one of the most popular tourist destinations on the African continent, causing great economic diversification while threatening environmental and cultural degradation.

Focused on the icon of the bridge from which tourist often bungee jump, this study uses ethnography and site-specific case studies to dissect the cross-national issues of branding a tourist destination that not only advertises a culture of adventure, but also one that is "exotic."

## RECIPROCITY IN DOWNTOWN GENEVA

Hilary Fenner

“Does capitalism have a conscience?”<sup>1</sup> This question, asked by rural sociologist John Allen, prompted my study of downtown Geneva, which focused on the Finger Lakes Gifts and Lounge (Flounge). This study focused on reciprocity and the social connections within the Geneva community utilizing the Flounge as a store that represents local artists, musicians, and foods.

My interest in studying reciprocity is founded in both the buy-local movement and my studies in Anthropology. Reciprocity served multiple functions historically. One of these functions was to maintain social connections between groups of people. Is buying local products a way to maintain these social relationships and a sense of human solidarity? In my project reciprocity represents the patronage by the Flounge to local artists and products that speak to the essence of the Finger Lakes region.

Through participant observation, archival research, quantitative data, and an interview with the owner, I came to understand that the Flounge actively puts time and energy into obtaining local products that support their community-based values. In a community like Geneva, where many small businesses struggle to survive, these social connections provide a benefit that potentially proves vital to these companies.

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<sup>1</sup> Allen, J. C. (2003). The conscience of capitalism: Business social responsibility to communities. *Rural Sociology*, 68(4), 573-575.

## THE INVESTIGATION OF PROTEIN FOLDING PATHWAY USING COMPUTER SIMULATIONS

Christine Ferry

Proteins are an integral part of biological systems and their folding pathways can be illuminated using multiple methods of study. Proteins are long chains of amino acids that fold into a particular low-energy structure (called the native state) that can be utilized by the cell. If a protein folds into a nonnative configuration, the result is potentially toxic to the cell.

In the research I completed, I used computational methods to simulate proteins. By simulating protein folding interactions, one can better understand the mechanism of diseases like Alzheimer's and Parkinson's disease. Alzheimer's disease is thought to be caused by small peptide clusters that are toxic to the neuron. The research team and I simulated small peptides using a molecular dynamics computation that created a potential energy landscape of the protein folding pathway, and analyzed the folding interactions trends of systems with 1-5 peptides to better understand how these small peptide clusters form.

## HWS'S NEW FARM: GETTING THE FOOD TO YOU

Tommy Fiorentino and Jane Rew

A 38-acre farm was recently donated to Hobart and William Smith Colleges on White Springs Lane. As part of the environmental studies senior capstone course, we are creating land use proposals for the farm that will be synthesized with projects by others in our ENV capstone course into a comprehensive plan.

Working in conjunction with the group assessing possible sustainable farming methods, our group will focus on the distribution of food that may be grown on the property. To do this research, we have identified and examined other college farm models, studied current community infrastructure, and interviewed local producers, experts, and members of the HWS community. We will contact HWS' current food distributor, Sodexo, as well as further explore the Geneva community's ideas about the farm. Interesting proposals might be a possible partnership with a local community supported agriculture (CSA), as well as a campus/community-wide vegetable truck.

Our class's comprehensive plan will be presented to President Gearan and the Fribolin Farm committee.

A FADING SOUL:  
EXPLORING THE PRESERVATION OF TRADITIONAL VIETNAMESE MUSIC

Melissa Freitag

Music is central to the Vietnamese culture and has been used throughout their history to reinforce traditions and values. As Vietnam rapidly moves into the global culture, Vietnamese music is threatened by other modern forms of music. Are the musical experts aware of these threats? Are the youth of Vietnam concerned about the possible loss of traditional Vietnamese music?

I became interested in the topic of Vietnamese traditional music when I was working at my internship as a public relations coordinator while studying abroad in Vietnam. To explore answers to these questions for my Honors Project in Sociology, I conducted interviews with experts in traditional Vietnamese music to define what they believe traditional Vietnamese music to be and whether they think they will be successful in preserving it. I also electronically distributed surveys to Vietnamese youth to determine whether the next generation values traditional Vietnamese music.

I will use these results to determine the likelihood that traditional Vietnamese music will be preserved for future generations. At this point my results suggest that the experts will value traditional Vietnamese music more than the Vietnamese youth.



## 2CW AND MASCULINITY: GENDER PERSPECTIVES ON PRO WRESTLING

Melissa Freitag

Although the outcomes are pre-determined and the matches pre-choreographed and pre-rehearsed, pro wrestling nevertheless attracts a large following. Although the stunts and acrobatics performed by the wrestlers remain real and risky, the masculine stereotypes depicted in these matches of conflict and struggle and pain and defeat may be the greater risk.

This presentation, based on a male-domain analysis paper for the Bi-Disiplinary course “Men and Masculinity,” discusses my experience of traveling with the medical professional for the semi-pro wrestling league 2CW, which was named the number one best promotion of 2011. I attended the first show in the 8th anniversary two-show series, at which twenty wrestlers and seven matches featuring several pro wrestling genres, including comedy, athleticism, and hardcore.

I suggest that the dream of wrestling is very different from the reality of it. These characters are not super-heroes, they are men, yet the audience sees only the unreal, stereotype masculinities that keep men in cages, unable to escape except for their few unreal moments on stage.

## FROM OBLIVION TO CENTER STAGE: REDESIGNING BICENTENNIAL PARK

Ana Garcia

Bicentennial Park is one of Geneva's most underutilized public open spaces. It lies in the heart of downtown between 5&20 and Exchange St. north of Lyons Bank. I hope to offer a redesign plan for the site that will uncover its historical significance and context. I hope to integrate the park into the city, and make it an inviting and functional space that promotes community interaction.

This design proposal will help highlight the importance of public open space to community development. Research on the history of the site as well as the history of the city will shed light on the evolution of public space in Geneva (during Geneva's manufacturing boom in the 19<sup>th</sup> century, the current site of Bicentennial Park was used for various industrial function). My historical research and site analysis will inform a design proposal for the site which I hope will encompass the historical richness of the city and combine it with innovative functions and aesthetics in an attempt to transform an underutilized space into a landmark.

## BREAKING BREAD WITH A MURDERER: RECONCILING SIN IN THE PENTECOSTAL CHURCH

Ana Garcia

The first time I visited the Assemblies of God church in Geneva, I had dinner with a well-loved member of the congregation who was a convicted murderer. In the Pentecostal church such seeming contradictions can arise from the church's dual sources of authority, doctrine and experience.

The Pentecostal religious movement has been characterized by literal interpretations of the Bible on one hand and experience on the other. These separate sources of religious authority create dualities that often are in contrast. Because the Assemblies of God church ministers to prisoners as an important part of spreading the word of God, I will look at how ministering to prisoners is shaped by both literal readings of the Bible and practical experience. This exploration will help illuminate the relationship between the dualities of Pentecostalism.

I will use field observations and notes, participatory observations, and interviews as well as theoretical research to inform this exploration. I hope to uncover tangible examples of the flexibility of Pentecostal values and beliefs when exposed to challenging experiences.

## CITY WANDERER AS SEEN THROUGH THE EYES OF A DANCER

Rayma Garcia-Decena

The focus of my Honors project has been combining the Situationist Theories of psychogeography (emotional and behavioral impact created by the geographic environment) and the technique of the *derivé* (an unplanned journey through space) with Laban's theories of movement analysis. The goal is to gain a better understanding of the natural human tendency to interact with space. I am discovering how certain structural forms dictate movement that within them, around them, and at a distance from them.

How do bodies react in the space and how do spaces or structures in the spaces define movement being done? Essentially, I will be translating the idea of a *derivé* into the Laban vocabulary. With this information a designer will be able to assess the city via movement. The final portion of the project will be to create a movement piece based on excerpts from the *derivés*. Through this Honors Project I hope to produce not only a movement study but also an architectural movement vocabulary: a set of vocabulary words that can be used by designers when describing how their spatial design will influence human movement through neighborhoods and communities.

## INDIGENOUS IDENTITY-MAKING: THE TURKANA, DEVELOPMENT, AND THE AID WORLD

Meghan Gaucher

The purpose of my Honors project in Writing and Rhetoric is to examine and explore the ways in which the Turkana pastoralists and community members, including non-profit employees, use language to shape the Turkana identity and definition of culture in the wake of oil development and the presence of aid agencies and, in turn, understand how the language used has material consequences. The Turkana are an underserved population of nomadic pastoralists that are being threatened by the influx of aid culture and oil exploration by a foreign company called Tallow Oil. The Turkana's unique situation made them an interesting group to study to understand the impact of both development and aid on their identity as a people and their culture.

I was awarded a Research Travel Grant through the Career Services Center to travel to Kenya to interview 14 Turkana pastoralists, non-profit employees, and one Tallow Oil employee. I conducted an ethnographic field study in which I interviewed stakeholders in the Turkana community. Upon return from Kenya, I used Critical Discourse Analysis and Ideological Analysis on my interviews and one human rights publication to reveal the complexities of language in different discourses (non-profit publications and one on one interviews).

Thus far, I have found that the testimonies I analyzed conceptualized culture, identity, and development through Western values. My thesis is still shifting as I continue to analyze the testimonials I collected in Kenya through various discourse and rhetorical methods, which brings to light new findings and conclusions.

SEX, DRUGS, AND THE AUTHENTIC COLLEGE EXPERIENCE:  
THE STORY OF “YOUNG ADULTERATED”

Stephen Gemmiti

When imagining the representation of the college experience in media, you'd be forgiven for picturing something between *Animal House* (1978) and *Revenge of the Nerds* (1984): togas and solo cups are as synonymous with the college experience as the cap and gown. We live in a media culture where our imagining of these formative years is comprised of extremes: a student is either swinging from the chandelier of the president's house or buried in a textbook while strung out on coffee. For such an iconic time in an individual's life, we are left with a cartoonish caricature that paints the college experience in a fantastically unrealistic way.

*Young Adulterated*, a 10-part, five-hour series, follows the interconnected stories of five college students as they navigate through a turbulent junior year. Based on a 295-page original screenplay, the series explores hard-hitting social topics such as young alcoholism, drug addiction, eating disorders, issues with body image, and the exploration of one's sexuality and how each issue plays a prominent role in the modern collegiate experience. By tackling these raw and often harsh topics head-on, *Young Adulterated* aims to spark a conversation about how we support our students and more importantly, how our students see themselves reflected in the media.

My symposium presentation will include an in-depth look at the making of the series over the course of its 15-month production in addition to a screening of one of the early episodes. A summary of the impact our media has on collegiate culture will follow.

## PRACTICING CLINICIANS' ATTITUDES ABOUT CLINICAL RESEARCH: A QUALITATIVE STUDY

Kara Gengarelly, Andrew Malordy, Taylor Milbrath, and Elizabeth Szwebjka

The purpose of this study was to examine how therapists view research and empirically supported treatments, as a gap exists between the types of therapies found to be efficacious in large clinical trials and what is being used by practicing therapists.

In the current study, we examined this gap by conducting key informant interviews with 10 practicing therapists. The sample was comprised of 8 female therapists and 2 male therapists ( $M$  age= 45.2,  $SD=10.27$ ). Nine out of ten therapists were licensed in New York State ( $M$  years licensed= 10.17,  $SD= 6.03$ ). One therapist reported having a Masters of Arts, two had a Masters in Social Work, two therapists had a Ph.D., and three had a Psy.D. and two reported their degree as "other." The average number of years the therapists reported practicing for was 15.1 years. All participants underwent a structured, recorded interview lasting about 30 minutes. Interview content was then transcribed and analyzed using qualitative methods.

Practitioners in our sample found research articles to be useful and saw empirically based treatments as helpful and effective. Although clinicians stated that research helped guide treatment decisions, most clinicians reported that they relied mostly on clinical expertise and intuition to decide which treatments to implement. Generally, they saw the relationship between scientists and practitioners as being important but stated that it was disconnected because of communication difficulties and the lack of generalizability of empirical findings to their own practices.

## HOW MUCH IS TOO MUCH REGULATION?

Joseph Gibbons

With the emergence of the Dodd Frank Act, and particularly the Volcker Rule, strict regulatory guidelines to minimize the chances of another recession like the financial crisis of 2007-2008 have been discussed. Certain economists have called for a return to the Glass-Steagall Act (a law that created a barrier between investment and commercial banks) which was passed in 1933. This act was repealed in 1999 by the Gramm-Leah Bliley Act, and it is said that this repeal had detrimental consequences to our economy.

Would a return to the Glass-Steagall Act create effective regulation in the current banking system? My project will dissect the chances of return of the Glass-Steagall, discussing any potential liabilities/shortcomings as well as advantages of such a drastic return. Also, it will provide contrasting stances on regulatory policies, providing models of high, strict regulation to those who favor free markets. I also will suggest best methods for promoting a strong, stable, efficient economy.



## THE ACOUSMATIC NARRATOR: RELATIONS, NARRATIVE DISTANCE, AND THE VOICE OF NIGHT VALE

Grace Gist

There is something strange and fascinating about a medium which creates an entire world through sound alone, yet there is little work analyzing radio drama as literature. For Honors project, I have been writing and producing a dramatic radio serial, and analyzing the history and features that characterize radio drama.

For this presentation, I will be examining one particular feature of the podcast *Welcome to Night Vale*: its narrator Cecil. Being an acousmatic presence—a disembodied voice—Cecil lends himself, like radio, to an unusual relationship with the listener. Given Cecil's position as a community news reporter, an element of narrative distance also comes into play, and because of the listener's relationship with Cecil, strange things happen when that one voice is compromised.

Through close reading and textual analysis of *Welcome to Night Vale*, as well as noting historical and normative precedent in radio for many of the podcast's features, I hope to use this example to illustrate the aesthetic and cultural potential of radio as a medium.

## OF MOZART AND MARIO: LEGITIMIZING VIDEO GAME MUSIC FOR MUSICOLOGICAL STUDY

Grace Gist

Despite its recent inclusion in concert repertory, video game music remains under-theorized within academia. Mainstream musicology tends to favor a narrow set of canonical works that satisfy a narrow conception of value. While this provides a good starting place, the narrow scope of the academic canon unnecessarily excludes a great deal of other worthy work from academic consideration. Video game scores, especially in recent years, present a new sort of soundscape with certain degrees of indeterminacy, and pose the dilemma of whether functional music can be separated from its function and be treated as its own aesthetic object.

By interrogating the constructed nature of the musical canon, I seek to investigate other means of legitimizing music, and to argue and illustrate that video game scores can—and should—be studied as aesthetic objects with their own musicological worth.

## RISKY BUSINESS: ANALYZING THE PRACTICES LEADING TO THE FINANCIAL CRISIS

Morgan Gould

The structure of our capitalist economy runs through cyclical booms and busts. During the booms investment firms have more confidence with the market and forget about the instability of the economy, which then causes them to partake in riskier strategies. In the years leading up to the 2007-2008 financial crisis, firms and banks were creating and using riskier methods of investment and lending. Which practices were too much and what can be done to limit the riskiness?

To answer these questions, I analyze the risky practices that ultimately resulted in multiple shutdowns of banks and firms. I then examine the government policies that were used to reform and stabilize the economy using the work of Hyman Minsky, an influential financial economist, to grasp a greater understanding of which policies would control the instability within the economy.

Overall, through my research on the 2007-2008 financial crisis and Minsky's insights on policy reform, I work to create my own policy that will help limit the risk and instability of our economy.

## THE POWER OF A PLAYGROUND: PLAY IN THE COMMUNITY OF GENEVA

Hilary Gove

Creative, outdoor play for children in the United States is becoming a concept of the past. This change, known as the play deficit, is a trend in which children spend less time playing outside, negatively impacting their physical, social and emotional development. My project examined play in the community of Geneva, New York and the impact that a new, community built playground had on the play deficit.

I conducted research at a local elementary school to examine recess during the school day, and surveyed parents to analyze children's play habits at home. The results showed that while children were not given an adequate amount of recess time during the school day, most parents encouraged their children to participate in unstructured, outdoor play at home.

The results of the research indicated that because the playground was a community-sponsored project, it has brought a new awareness to the importance of play. The research suggests that the new playground is just one factor that can have a positive impact on reducing the play deficit in the community of Geneva.

## HOW POPULAR DO YOU WANT TO BE? A MATHEMATICAL MODEL OF COLLEGE FRIENDSHIP

Michael Green

Many people want to be popular, yet statistics show that adults in US have only four close friends on average. My team and I created a mathematical model to study friendship networks, where we assume time spent helping each other is the foundation of solid friendship.

On one hand, friends spend time to help each other; on the other hand, we all have limited amount of time to allocate. For this reason, we measured the wellness of a student by whether enough time can be spent on schoolwork. When under stress, students are assumed to turn to a friend for help, asking for an exchange of time. Thus the wellness of friendships is measured by how often a student can get enough time from friends to get over stress.

Using computer generated random graphs—where the nodes represent people and the edges represent friendships between people—we quantitatively studied to what extent friendships can help college students de-stress, how long college friendships last, and whether keeping many friends is beneficial. In each simulation, the wellness of individuals (survival rates) and the wellness of friendships (connection rates) of the network are tracked throughout time.

Our team's results will show why most people have approximately four close friends on average and why it is good to be popular. Our results will also show what types of people are best to be friends with.

## DISABILITY & TECHNOLOGY: MATH TABLET APP FOR CHILDREN WITH LEARNING DISABILITIES OR ADHD

Jessie Hall

My research project focused on the development of tablet applications for children with learning disabilities or ADHD to learn math concepts more effectively. Through this project, I focused on the topics and situations where these students learned best, including, but not limited to, the environment, surrounding stimulus, and peer involvement.

For the first part of my research project, I volunteered in a second grade classroom at West Street Elementary School. My main focus was to help students struggling with a specific topic, and offer different ways of learning that topic. I also led my own, smaller group of students in using the Samsung Galaxy Tablets; the students utilized learning applications through these tablets. I monitored their activity on the tablets and took notes about how these students used these tablets, what successes/short-comings they had, and ultimately, what worked best.

From this research, I developed my own math-based tablet application for second-grade math concepts.

## ISRAEL, PENTECOSTALISM, AND THE UNITED STATES

Jeffrey Hauser

This project for Religious Studies 305 begins at the American-Israel Public Affairs Committee in Washington, DC. In the panel discussion on “Friends of Faith: Evangelical Christian Support for Israel,” I was introduced to the concept of dispensationalism as a factor in the United States-Israel relationship. Dispensationalists believe there is a distinct relationship between the state of Israel and the second coming of the Messiah. It is a popular belief among some Evangelical sects.

The project seeks to discover whether Pentecostals do or do not align with dispensationalist beliefs in regard to Israel. I explore whether dispensationalism follows in a similar track to that of Pentecostalism and its unique connections to the state of Israel, from both a political and religious standpoint. It is crucial that Americans further their understanding of how a wide variety of faiths place emphasis on the state of Israel.

## UNDERSTANDING AN ABSTRACT SCULPTURAL PROCESS

Andrew Hellmund

Over the last year I have been developing a body of work for an Honors project in welded steel. One of the most actively asked questions is about my process. The answer is complicated, but a useful endeavor to understand.

My abstract recycled steel sculptures are known for expressing movement. The work explores where nature and industry come together and coexist. It strives to forge relationships beyond sculpture, bringing value back into our lives, by seeing worth in abstract steel forms, while, I hope also helping people see worth in the other “rejects” of society (people and materials). This goal is only possible by striving to constantly refresh my process and perspective by addressing the challenge of changing my question every day.

Included in my understanding of my own process is understanding the process of my mentors and friends: Professor Ted Aub and Sculptor Peter Hide. No one process is better than any other as long as there is a process that evolves and these sculptors have contributed to my understanding of process.



## ENHANCING DRUG SELECTIVITY THROUGH INDIUM MEDIATED ALLYLATIONS

Alexa Hill

Indium mediated allylations (IMAs) are environmentally friendly reactions for the formation of new carbon-carbon bonds. An advantage of this reaction is its capacity to yield high stereo and regioselectivity, making it possible to manufacture purer product. The ability to select for a specific enantiomer is highly valuable in drug manufacturing. An enantiomer is one of two stereoisomers that are non-superimposable mirror images of each other. By creating one single product rather than a racemic mixture of enantiomers, this reaction offers great selectivity for making complex molecules that could have medicinal value.

I performed a reaction with indium metal in an Erlenmeyer flask filled with an allyl halide solution that slowly dissolved the indium over time. Photomicrographs were taken every few hours to measure the rate of retreat. These experiments helped better our understanding in the mechanism and formation of products.

My interest in this work stems from my fascination for science and my understanding for the importance of stereochemistry in pharmaceutical companies.

## CRITICALLY UNDERSTANDING “CORRUPTION”

Melissa Hosek

My research, which I performed in the Spring of 2013 for ASN 401, Asia Colloquium: Dubai and Singapore, seeks to examine “corruption” through a brief historiographical overview, a discourse analysis, and a methods analysis of mainstream corruption measurement.

Corruption is largely considered to be “the abuse of entrusted power for private gain.” This definition serves at the foundation for corruption-measuring organizations such as Transparency International and the Corruption Perception Index. In turn, this definition shapes how international and economic policies understand and respond to corruption. Given its extensive influence in international relations, it is prudent to understand this concept’s transformation over time, its contemporary limitations, and how these dimensions impact the effectiveness of policies.

The results of this research suggest that the mainstream understanding of “corruption” is a fluid social construction that fails to encompass the many complicated and “grey-zone” manifestations of corruption around the world. In order to make more effective and informed policies regarding corruption, international policymakers should take non-mainstream interpretations into consideration.

## REBRANDING CLASSICAL MUSIC

Richard Jarrett

Symphony orchestras are filing for bankruptcy at the rate of one per year, music teachers and their budgets are among the first cuts made in school budgets during difficult financial times, and with the golden age of compact discs in the rear-view mirror, the future of mainstream classical music is daunting. While western art music has been “dying” for nearly a century, according to the naysayers of its day, we now have the data to back it up. The audiences of concert halls are getting older, and if live performance of Classical music is to survive, they must appeal to a younger audience who may not have grown up hearing this sort of music.

By analyzing America’s oldest musical organization, the Handel and Haydn Society of Boston, I will examine how this remarkable organization has rebranded itself over the last six years, putting itself back on sound financial footing with a much younger audience and encouraging the people of Boston to attend live concerts. I will identify their methods and suggest ways that other arts organizations could follow their example. Finally, I will apply those methods to a song recital in a performance of a portion of Schubert’s *Winterreise*.

## THE MINIMUM WAGE THAT WAS: BRINGING IT BACK

Alex Kent

Hyman P. Minsky argued that the effective minimum wage in the United States is zero: unemployment precludes someone from earning a wage, minimum or otherwise. Minsky emphasizes how unemployment insurance and traditional welfare programs are also inflationary for the ways in which they increase national income without expanding the supply of goods and services.

To solve this problem, Minsky proposed that the federal government become the employer of last resort (ELR), a New Deal-esque program that acts countercyclically to provide jobs for the unemployed. Implemented in Argentina, Plan Jefes is the only program in the world modeled after the ELR proposal. While Plan Jefes improved socio-economic conditions in Argentina, it did not provide an unconditional job guarantee.

This paper examines Minsky's theory of ELR, how it was implemented in Argentina, and modifies the plan to fit within the U.S. context.

## THE CONFIDENCE GAME IN AMERICAN POLITICS

Alex Kent

Since 1964, confidence in U.S. political institutions has declined 53 percent. Scholars have attributed this decline to media polarization, the failure of policy implementation to meet the public's expectations, and personal presidential characteristics.

The research for my Honors Project draws on longitudinal data from the American National Election Study (ANES) and attempts to identify why presidents repeatedly fail to inspire confidence in the electorate. However, by chiefly treating confidence as a dependent variable, scholars trivialize its importance. Low levels of confidence contribute to an environment where presidents are less effective, Congressional deadlock is commonplace, and voter turnout dwindles each year. Rather than merely identifying the influences of confidence, my work seeks to deepen our understanding of what declining confidence *means* for the future of American Democracy.

I suggest that specific policy areas—campaign finance, taxes, and effete economic policy—ensure the preservation of this environment by mobilizing money and political influence on behalf of the wealthy. This, in turn, reinforces the vicious cycle of confidence's downward trend.

## KITCHEN COMMUNITIES: A CASE STUDY OF MEANINGFUL PLACES

Lindsay Kent

My partners and I studied the meaning of different physical spaces on campus for Senior Asian international students. We conducted this research for our SOC 211 Sociology Research Methods final project, taught by Professor Monson in fall of 2013. The meaning of spaces on campus differs based on social locations such as race, ethnicity, nationality, and gender. Focusing on the Asian international student population on campus gave us the opportunity to shed light on a minority group's perspectives.

We conducted in-depth semi-structured interviews with three male and three female senior Asian international students. The interviewees were provided two maps of the HWS campus and two highlighters to illustrate the places they spent time during their first and final years at HWS. We asked a series of questions that explored the meanings our interviewees associated with specific places on campus during their first and senior years.

We found that kitchens in non-traditional housing held the most meaning for these students both in their first and final years at HWS. Cooking with one another pulled these students away from central, traditional housing and towards off-campus non-traditional housing. Socializing was not defined by drinking; these students hung out with each other and cooked meals together. This study has implications for the HWS community because it reveals the spatial patterns and meanings behind places on campus of a minority group.

## WHAT'S THE VALUE?: AN ECONOMIC IMPACT STUDY WITH SOCIAL CONSIDERATIONS OF THE SMITH CENTER FOR THE ARTS

Lindsay Kent, Julia Oak, and Rebecca Waldrop

In this study, for Sociology 465, Research Practicum, we examine the economic and social impact of the Smith Center for the Performing Arts, a non-profit performing arts center located in Geneva, NY. Our review of the literature demonstrates that cultural centers are typically positive forces in communities because they foster involvement, creativity, and engagement. However, research shows that cultural centers can also be exclusionary because they only serve certain portions of the population, namely those with higher income and higher educational attainment.

We will administer a survey at various events hosted by the Smith. We have not created an instrument to measure the social impact; however, we will infer the social impact of the Smith by examining a master calendar of public events hosted in Geneva and determining what percentage of events the Smith hosts. The Smith Center will use the data in their applications for federal, state, and local grants.

SPATIAL DISTRIBUTION OF THE RED-BACKED SALAMANDER  
(*PLETHODON CINEREUS*) ALONG A FOREST FRAGMENTATION GRADIENT IN  
FINGER LAKES NATIONAL FOREST

Samuel Knopka

Landscape modification negatively effects wildlife populations through habitat loss, fragmentation, and degradation. Agricultural land use has created a gradient of forest cover within the Finger Lakes National Forest (FLNF) which could impact the spatial distribution of wildlife species. I evaluated the distribution of the terrestrial salamander *Plethodon cinereus* (*P. cinereus*) within FLNF based on local and landscape scale factors influenced by forest fragmentation. Local scale factors can limit occupancy by directly influencing habitat quality, namely temperature and moisture. Landscape scale factors can limit occupancy by restricting connectivity between populations. One-hundred plots (10mx10m) were randomly created within forest and each site was sampled 3 times for *P. cinereus* occupancy by searching all moveable cover objects. A single-season, likelihood-based model which accounted for imperfect detection was used to estimate occupancy probability at each plot. Models with the best support indicated that local and landscape scale factors are important for predicting *P. cinereus* occupancy. The persistence of *P. cinereus* populations likely depend on both adequate habitat quality at a local level and sufficient connectivity with other populations at a landscape scale.



WHAT SEX SELLS:  
EXAMINING DISPLAYS OF WOMEN IN ADVERTISING

Devyn LaCamera

My honors research in media and society examines the overly sexualized representations of women in advertising and the consequences these representations have on gendered stereotypes in contemporary American society.

I have curated an online gallery and a pop-up gallery in the library atrium to bring the issue of sexist advertising to the attention of the HWS campus, giving students and faculty the opportunity to register the severity and consistency of the objectification of women in print advertising for products from perfume to hamburgers. My image galleries present popular advertisements that one may dismiss or choose to ignore in their original publication contexts (for example, fashion magazines) into a space where they cannot be overlooked, the library atrium. What will be the impact of this display on viewers in this new context?

Using the research of scholars in the fields of media studies and psychology as a foundation, I will present an argument about the social effects of the objectification of women in advertising and the responses to these images from the greater HWS community.

## MYTHOLOGY IN MODERNISM

Luke Latella

For centuries, societies have passed along tales of creation, gods, natural phenomena, and heroic or noteworthy figures, embellishing and obscuring these tales often until they fall into the category of myth. Even in modern society we turn to these myths as cornerstones of moral development, inspiration for media and pop culture, advertising strategies, and even professional labels as seen in the medical world's Rod of Asclepius or Hermes' Caduceus.

The Modernist movement of the early twentieth century called into question the relevance of ancient myths and stories in then contemporary works, yet references to mythology do not fade with this movement, but even in some cases appear more abundantly. In my research, I plan to examine the role of mythology in modernist art and literature and its effect upon the political and social atmosphere of twentieth century Europe.

My studies will be rooted mainly in Ireland, where the Irish Literary Revival presents an approach to modernism unlike that of other European countries. I plan to examine the debates between W.B. Yeats and John Eglinton, which appeared largely in newspaper contributions, as well as the works of both men. I will devote the majority of the paper to the works of James Joyce, who exemplifies the marriage of modernist social identification and mythological tradition, as well as his contemporaries such as AE (George Russell) and Lady Gregory, examining how the authors used mythological tropes to establish a new sense of national identity within a rapidly shifting social landscape.

## TOO MUCH OF A GOOD THING: HOW EASIER AND FASTER ACCESS TO INFORMATION LEADS TO MARKET FRAGILITY

John Levis

The current era has been dubbed by many as the “Information Age”; people have come to expect that any information that they could possibly need can be brought to them almost instantly. In many respects, this is a good thing. Ease of access to information allows problems to be solved faster, reducing costs and helping things to run more efficiently through the reduction of asymmetric information. However, is it possible that in some areas, easy and instant access to information could ultimately be detrimental to long-term success?

I am examining the way that increasingly accessible information within the financial sector leads to short-term efficiency and the realization of immediate profits at the cost of destabilizing the sector and the economy as a whole in the long term. Working with the theories of Richard Bookstaber<sup>1</sup> and Hyman Minsky,<sup>2</sup> my goal is to craft a solution that would allow for a minimization of information asymmetry that allows for financial markets to remain stable and profitable in both the long-run and the short-run.

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<sup>1</sup> Bookstaber, Richard. *A Demon of Our Own Design: Markets, Hedge Funds, and the Perils of Financial Innovation*. John Wiley & Sons, 2007. Print

<sup>2</sup> Minsky, Hyman P. *Stabilizing an Unstable Economy*. New Haven: Yale University Press, 1986. Print

## HWS'S NEW FARM: A WHITE SPRINGS' HISTORY

Cornelia Lindecke

As part of the Environmental Studies SIE class, we have divided up into groups in order to put forth a proposal for the newly purchased property known as White Springs Farm. Although as a class we are focusing on the future of this land, the goal of my project is to document and present the past history of this property. In essence, the project will answer, "what is the history of White Springs Farm?"

In order to present the history of the property, I interviewed the previous landowner, Carl Fribolin. In addition to the interview, I researched in the Geneva Historical Society, utilized the HWS Archives as a resource, and interviewed local businesses such as Belhurst Castle and White Springs Winery. Beginning with in the early 1800's with the first owner of the property, John Nicholas all the way up to the previous owner Carl Fribolin, the video tells the story of why White Springs Farm is recognized as such a landmark agricultural enterprise.

Once the video is complete, it will serve as a source that documents the history of White Springs Farm.

## THE RHETORIC OF MASCULINITY IN SPORT

Alex Love

In March of 2006, an African-American woman accused three Duke University Lacrosse players of raping her at a team party. Although the three accused players were eventually cleared of any wrong doing, the accusations and the trial that followed sparked a national debate about the role of lacrosse, and to a greater extent, sports, in shaping ideas about masculinity in America. Lacrosse provides its players with an environment through which to exhibit masculine capital through displays success and achievement on and off the field. In the case of the Duke lacrosse rape scandal, it was not the legality of the accusations which were so alarming, but instead the rhetoric media outlets used to explain and justify these players' actions. The ideology that "boys will be boys" in the writings that ensued after the scandal reveal the nature of the institution of sports in American society.

By illuminating the masculine "aura" that sports provides, I argue that understandings of the role of sports in boys' lives and the rhetoric surrounding sports not only encourage our youth to absorb often contradictory messages about what it means to be a man in America but also provides them with a place where they can then practice these roles. I analyze the media's coverage of the Duke lacrosse scandal and make an overall argument that the institution of sports in American culture both encourages and reveals the gendered socialization of our youth.

## CLASSICAL AND CONTEMPORARY CHINESE LANDSCAPE PAINTING

Justine Lynch

For my Independent Study project in Art History I have investigated several Chinese literati painters, most of whom lived throughout the Song Dynasty and later, including Li Cheng, Guo Xi, Zhao Mengfu, Li Gonglin, Su Shi, Wang Fu and Shih-t'ao. I have also done research on many contemporary artists, but have mainly focused my studies on two artists, Xu Bing and Li Huayi, who are world-renowned pioneers in the field of contemporary Chinese art.

Although many contemporary artists working in China today have the skills and experience to create abstract and conceptual works, they continue to work with the long-established tradition of landscape painting. Although their works may seem to be copies of the old masters, artists such as Xu Bing and Li Huayi are working within the praxis that has existed throughout Chinese art of implementing their own slight innovations to create a highly personalized style. Because in Western art history we associate the metamorphosis of artistic style with drastic changes, for example the jump between Neo-Classical to Modern, it can be difficult for us to identify these stylistic developments, yet they do exist and artists of the 21<sup>st</sup> century are further expanding this tradition than began during the Han Dynasty (206 BCE – 220 CE).

What I find most interesting about this topic is that despite the attempt led by Mao Zedong to rid China of its history, which comprised of destroying many works of art, manuscripts, artifacts and monuments, to create a new history of their culture, many contemporary artists today are continuing to develop the artistic traditions of the past.

## LET'S START TALKING ABOUT OUR ABILITIES

Meaghan Mahoney

For the past four years, I have been fortunate enough to work with organizations that serve to individuals with disabilities. Through different volunteer work, internships, and simply building friendships, I have noticed that the stigma that our society can at times form about these individuals is far from what our reality is. Between my Education and Writing & Rhetoric classes, I have learned that our society is not always educated about what is socially acceptable when viewing or talking to individuals with disabilities.

My project will focus on the work I have done with individuals with disabilities and what has been created when college students interact with individuals with both developmental and intellectual disabilities. I will incorporate the work I have done with Connecting Smiles, as well as my experience at the Clinton Global Initiative University.

KEEPING KIDS IN SCHOOL:  
IMPLEMENTING A LOCAL EXPERT PROGRAM FOR GENEVA 2020

Maxwell Malbouf, Hannah Meyer, and E Zhao

In this study, we will be focusing on the implementation for Geneva 2020 of a local expert program, in which professionals within a community come into schools to share their knowledge and experiences with student at the high school level. We are surveying one local expert program, Junior Achievement, to learn how their program is organized and carried out, and learn best practices for implementation. We will then make a manual for Geneva 2020 as a guide for carrying out such a program.

Over 80% of surveyed high school dropouts reported the reason they dropped out was due to a missing linkage between course work and the real world (Bridgeland, Dilulio, Morison 13). Shockingly, 88% of these students were passing classes and felt confident that they could have graduated but were not interested in continuing their high school career (Bridgeland, Dilulio, Morison 3). Within the Geneva High School, the drop out rate for the 2012-2013 school year was reported at 8.9% of students.



DEVELOPING LANGUAGE IN A LIBERAL ART'S ENVIRONMENT:  
A POET'S GUIDE TO COLLEGE

Chelsea Maloney

This project is one of language, of engaging with the ever changing self, and the places, people, and events that affect it; this project focuses on the challenges to identity of intersectional subjects such as gender, sexuality, race, class, education, mental health, and relationships. I have investigated these subjects throughout the various and differing functions of my writing. Professors and peers have not only reviewed my writing, but they have become the subjects of it.

My own emotional connections with classroom atmospheres and athletic commitments, activism and extracurricular activities, social relationships and personal ones have influenced the pace, style, and general “feel” of my poems. As my poetry has developed, so has my voice. I have learned to control it through the syntax, the sound, and the appearance of a poem.

In this presentation I would like to share a small collection of my poetry in an effort to trace the changing language style and concepts of self that I both immersed myself in and discovered years later when I reviewed the work. In a sense, I want to share some of my writer's journey.

## IDENTIFICATION OF PROTEINS INVOLVED IN CELLULAR BREAKDOWN

Maria Mangine

When a cell is damaged or unable to function properly, the body has an intricate system involving many components to break down that unhealthy cell. A fault in this complicated network can lead to serious health concerns if malfunctioning cells are not killed then they will continue to grow and replicate, often resulting in cancer.

This study focused on the identification of factors that may be responsible for the break down of unhealthy cells. One player involved in this system has already been determined to be a protein called Thd14. By discovering other proteins that interact with Thd14, we will gain insight about the process of cellular degradation. The bulk of this study was aimed at optimizing experimental conditions so that proteins could be successfully isolated and identified.

## URBAN GREEN SPACES: ENFORCERS OF ELITISM?

Margaret Markham

My project examines whether the recent push for increased urban green space is equally beneficial to all socioeconomic, racial and ethnic groups or whether it is an elitist goal that exacerbates, rather than alleviates, environmental justice issues.

To evaluate this question I synthesize sources from the natural sciences, social sciences, and humanities to analyze U.S. Census Bureau statistics, GIS maps, as well as the mental, emotional, and physical benefits of increased interaction with green spaces. How this interaction affects property values, policy, and the psychological perception is also examined. I focus on urban green space and urban tree canopy cover in the city of Boston because it is number two in the country for urban green space acreage per resident, and is currently implementing a variety of initiatives to increase urban green space.

I conclude that increased urban green space has the potential to be beneficial; however, the decision-making process must include the considerations and perspectives of all entities. Understanding the difference between intention and consequence within current formal institutions is critical for future implementation of policy. Ultimately, perception is the determining characteristic of policy success.

## GETTING OUR HANDS DIRTY: REAL-WORLD EXPERIENCE AT FRIBOLIN FARMS

Haleigh Marshall and William Weimer

Hobart and William Smith recently received a donation of a 38-acre plot of land that sits less than a mile away from campus. As part of the Environmental Studies capstone course, we were tasked with coming up with proposals regarding the utilization of the space, with the overarching goal of integrating both the Colleges and the Geneva community. Because there was such diversity in regard to potential proposals, our class split into groups and focused on the most realistic options.

Our project focuses on the physical and mechanical changes necessary to develop three diverse initiatives: soil plot research sites, biodiversity and conservation areas, and a large kitchen suitable for use in food classes and community programs. These three proposed developments are disparate, but serve a demand for experiential learning.

By researching other schools that had projects of similar scale, visiting local sites, and conversing with community members from both HWS and Geneva, we were able to grasp which ideas would be successful and which ones would not. By equipping the property with the necessary components, we aspire to create an extension of campus to allow students to apply their skills in a "real-world" situation, facilitate biodiversity and conservation research, provide information to local farmers about changing agricultural practices, and create an educational resource to both HWS and Geneva community members. Our end result will be a detailed, comprehensive plan that will be presented to the President's Fribolin property committee

## GLOSSOLALIA: TONGUES OF FIRE

Greg Mathieu

Glossolalia is the act of speaking in tongues, and there are two branches of this. One being glossolalia, which is considered to be the tongue of angels. It is a key facet of the Pentecostal Movement, which is the second largest Christian denomination, just behind Roman Catholicism. It has been said that Glossolalia is a trance state; I am interested in whether glossolalia is similar to trance states that are described in other religions throughout the world.

I plan to research current works regarding glossolalia as well as conduct personal interviews with people who have experienced this gift themselves. I hope to shed light on exactly what speaking tongues is. As the Bible states “All of them were filled with the Holy Spirit and began to speak in other tongues as the Spirit enabled them” (Acts 2:4 New International Version)<sup>1</sup>.

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<sup>1</sup> *The Holy Bible : New International version*. Grand Rapids, Mich. New York, N.Y: Zondervan Pub. House Harper Paperbacks.

## THE IMPACT OF CONTEXT ON THE ACTIVATION AND GENERATION OF ELABORATIVE INFERENCES

Margaret McConnell and Rachael Smith

The purpose of the present experiments is to examine the activation and durability of elaborative inferences when context strongly constrains elaborative inferences.

Context was either explicitly mentioned in the passages or it was part of general world knowledge (GWK). Although many discourse comprehension theories agree that GWK has profound influence on the construction of the mental representation of the text, little systematic research has been done to examine the impact GWK has on elaborative inferences. It is predicted that when GWK strongly supports the elaborative inference, readers will activate elaborative inference and possibly, incorporate it into the text representation. To test this we conducted two experiments examining the activation and durability of elaborative inferences using four conditions: consistent explicit, consistent GWK, inconsistent explicit, and inconsistent GWK.

Our research added to previous research that elaborative concepts are activated by GWK and may become part of the text representations. Experiment 1 extended the results of previous research demonstrating that GWK is sufficient in activating a lexical item representing an elaborative inference. The results of Experiment 2 suggest that activated lexical items may become part of the reader's memory representation. In Experiment 2, readers were more likely to rate statements containing the elaborative inference as having been explicitly stated in the passages when contextual information supported the elaborative inference than when context did not support the elaborative inference.

## EXPERIENTIAL RESEARCH ON DANCE/MOVEMENT THERAPY

Sara McKinney

The motivation for this research project derives from my interest in using movement as a therapeutic tool. I investigated Dance/Movement Therapy (DMT) by researching who it benefits, whether it treats certain psychological ailments and disorders, where dance/movement therapists practice, whether hospitals have them on their staff, whether health insurance companies cover DMT as treatment, the approach DMT takes in treatment, and whether medication is recommended in conjunction with DMT. As a dancer I value most highly the discoveries that I embody through my own experience. Thus, in addition to a literature review, I shadowed a dance/movement therapist in Rochester and participated in two weekend workshops that were based on DMT principles.

I found that dance/movement therapy is defined profoundly by the mind-body connection. It aids people in connecting to their emotions through authentic movement responses. This presentation will trace the applications of DMT, its potential to treat symptoms of a variety of psychological disorders, and its capacity to treat a diverse continuum of people in myriad settings.

## FINANCIAL REGULATION IN AMERICA: AN ANTIDOTE OR A DISEASE?

Jangmi Mikutowicz

Can the 2007-2008 financial crisis be blamed on financial legislators? Financial institutions in the United States have been subject to a volatile pattern of regulations. Many of these financial regulations were geared towards limiting both investment and commercial banks. However, in recent financial regulatory design, commercial banks have been at the center of financial deregulation in order to maintain a competitive edge on the emerging securitization and derivatives market, the securities repurchase market, and the competitive shadow banking industry.

In this paper, I analyze the macroeconomic impacts of investment and commercial banking deregulation surrounding the 2007-2008 Financial Crisis in the United States. In order to measure the correlation between the financial collapse and deregulation, I looked at the inherent risks of the investment bank and commercial banking sectors, patterns of regulations during previous financial crises, and strategies and methods associated with deregulation.

My analysis suggests that the deregulation of commercial and investment banks promoted financial instability, and that regulation could have minimized many of the causes behind the 2007-2008 financial crisis.



## THE RELATIONSHIP BETWEEN STUDIO ART AND FASHION DESIGN

Demi Anne-Marie Mitchell

My independent study in Studio Art explores the connection between studio art and fashion design by examining the principles of construction and creative development necessary for both. I attempt to define and understand the function of fashion and determine whether it can be considered an art.

My project assesses fashion design as an innovative, productive, and adoptive practice from a historical lens, and critiques fashion design from an artistic standpoint. I integrate principles of composition and relatedness within the realm of studio art, and apply those principles to the construction and development of garments of my own design.

I hope to gain a more concrete understanding of how art relates to fashion design and to what degree fashion designers can become artists.

## NEGOTIATING WITH NATURE: A STUDY OF GENETIC MODIFICATION IN FOOD PRODUCTION AND ITS EFFECTS ON AMISH AGRICULTURE

Hillary Monahan

Is it possible for Amish communities to incorporate biotechnology into their agricultural practices while still maintaining the integrity of their belief system? What are the environmental impacts that come with widespread use of genetically modified (GM) seeds? How do we determine whether these GM crops are inherently good or bad? My Honors thesis seeks to answer these questions from both an ecological and an anthropological perspective.

I have conducted ongoing interviews with the Schwartz family of Schwartz Farm in Waterloo, NY, to gain first-hand knowledge of the agricultural practices and beliefs of this commercial farm that produces and sells GM crops. I compare these findings with a neighboring farm that is owned by a Schwartz relative who runs an organic operation entirely rid of GM seeds and pesticides. By observing the practices of these two farms, taking into consideration the backgrounds of each family, religious beliefs, income levels, and cultural circumstances, I ultimately gain insight on the negotiations between Amish agriculture and the capitalist market system.

## LIGHT 10,000 TIMES BRIGHTER THAN THE SUN

Joshua Moss

The extraordinary power of synchrotron light has had an immense impact in fields that include archaeology, biology, chemistry, environmental science, geology, medicine and physics. A synchrotron is a large machine (about the size of a football field) that accelerates electrons to almost the speed of light. As the electrons are deflected through magnetic fields they create extremely bright light. The light is channeled down beamlines to experimental workstations where it is used for research.

In summer 2013 professor Dumitriu, my colleague Candace Carducci, and I conducted research at the Advanced Light Source (ALS), Lawrence Berkeley National Laboratory, Berkeley CA. The Advanced Light Source at Berkeley Laboratory produces light which is 10,000 times brighter than the Sun. This light was used to investigate the Carbon negative ions.

Carbon plays a crucial role in the physiology of human body. Carbon constitutes roughly 18% of body mass, and millions of carbon atoms form the thousands of molecules in virtually every cell. Since the human body is constantly exposed to some type of electromagnetic radiation (sun light, cosmic rays, heat, radiation from natural and artificial sources, etc.), the interaction of carbon with electromagnetic radiation is of high interest for us humans. The experimental results on the interaction of Carbon negative ions and its small clusters with synchrotron radiation will be discussed.

## GOOD KIDS, M.A.A.D CULTURE: HOW RACE, CLASS AND EXPERIENCE WITH RACIAL DIVERSITY AFFECT INTERPRETATION OF HIP-HOP AND RAP

Aaron O'Brien

Hip-hop and rap, created in inner-city areas in New York City during the 1970's, provided a medium for minorities to speak out against their economic and racial marginalization. Despite its growing popularity, especially for White suburban youth, hip-hop and rap have continuously been placed under a microscope by our society, criticized for promoting violence, misogyny and the sexual objectification of women.

My honors project in sociology aims to understand whether and how race, class and experience with racial diversity affect how a listener hears or understands a specific rap song. I played the song "M.A.A.D City" by Kendrick Lamar for three focus groups. Each focus group comprised three HWS male students who self identified as either Black or White and, with the exception of one student, as listeners of hip-hop and rap. Of the three focus groups, one was comprised of only Black listeners, one was of only White listeners and one contained two White listeners and one Black Listener.

I am looking for differences between and among different racial groups, socioeconomic status, experiences with racial diversity and the racial compositions of the focus groups.

## A TRANSLATIONAL APPROACH TO CARDIOVASCULAR RESEARCH AND MEDICINE

Dona Occhipinti

My Honors Thesis embodied two separate research projects dealing with cardiovascular disease in addition to a more metaphysical approach to understanding how this research and can be translated from bench to bedside.

The interdisciplinary nature of my Thesis originated from my interest in both medical research and its application to public health and policy. Through my research experiences at the Masonic Medical Research Laboratory, the Danish Arrhythmia Research Center, and Virginia Commonwealth University I've learned the many ways in which cardiovascular research is used to tackle disease related questions, including arrhythmias, heart failure, and atrial fibrillation. The goal of this project was to provide an overview on the way heart research is employed, while using a translational focus to apply it to my personal experimental research, so that the relevance to medicine could be highlighted and future direction determined.

I discovered the importance of collaboration among researchers within the same field and the positives of a translational research focus that is more clinically-based. This approach to research holds the promise to effectively determine new cures for disease, improve current treatment options, as well as explore the benefits of preventative care.

GAMBLING WITH SOMEONE ELSE'S MONEY:  
THE ROLE OF LEVERAGE IN THE 2008 FINANCIAL CRISIS

Louis Padnos

My project seeks to illustrate the role of excessive leverage in the 2008 financial collapse. What was the role of out-of-the-ordinary leverage held by major investment banks, hedge funds, and other financial institutions in the destabilization of the financial system? What kinds of assets were said institutions holding with their highly leveraged positions and how was their excessive leverage funded?

“The Great Recession” had a multitude of causes over the expansive landscape of the greater financial industry. I am particularly fascinated by the use of leverage to acquire assets for which firms would otherwise not have the appropriate capital to purchase. This paper will seek to delve into the leverage ratios of some of our country’s investment banks and hedge funds and examine their market-boom over exuberance and resulting spike in leverage ratios.

Current analysis suggests that financial institutions were too highly leveraged for the optimal safety of the financial system and their holdings were constituted by a variety of risky assets.

## GENDER STEREOTYPES AND WOMEN POLITICAL LEADERS

Ava Pavao

My Honors project explores women political leaders and the stereotypes they face. I analyze how people today see women leaders and whether these stereotypes are valid. I then put my findings into a political context, analyzing female leadership within political structures. I also, discuss recent events where women leaders bring their unique perspectives to current political issues, such as the recent government shutdown, new measures being taken to combat gender stereotyping and to allow women politicians to break through the fabled "glass ceiling" of politics. I address the issues of recruitment, funding, the use of political action committees, and the possibility of restructuring political positions to be "family friendly."

Reaching gender parity in politics is urgent. Because of gender stereotyping, women have been socialized to focus on leadership tactics such as collaboration and the incorporation of compassion, and so it is imperative that women have equal representation in politics. If measures are taken to ensure the growth in the number of women political leaders, with this growth, I believe that women will be able to use their unique perspectives to create a more collaborative and ideologically balanced government.

## CRISIS THEORY: HOW THE FINANCIAL SYSTEM COLLAPSED

Jacob Powell

This paper focuses on the causes and consequences of the financial crisis, the worst recession since 1929. It has been analyzed and explained in a variety of ways by many of the mainstream economists who failed to predict it. Their analysis of the causes was as lacking as their analysis of why it could not happen. This means a new (or old), more dynamic approach must be taken, an approach that understands crisis on a fundamental level: Marxism.

I will use a Marxist analysis of the period from 1970 to 2008, in an effort to have a historically grounded analysis of the causes of the crisis. By using a socially embedded theory, a theory that assumes the instability of capitalism, I will be able to paint a more dynamic picture of why the inherent contradictions set up by capitalism led to the crash of the financial system.<sup>1</sup> Using historically and socially embedded analysis, I will be able to expose the causes that were forgotten by mainstream economist or explained away through hedonistic calculus.

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<sup>1</sup> Kotz, David, and McDonough, Terrence. "Global Neoliberalism and the Contemporary SSA". Contemporary Capitalism and Its Crises: Social Structure of Accumulation Theory for the 21st Century. Eds. Terrence McDonough, Michael Reich, and David M. Kotz. Cambridge: Cambridge UP, 2010. 93-118.



COLORING INSIDE THE LINES:  
SCRIPTS OF RACE AND EXECUTIVE CITIZENSHIP

Jocelyn Rapp

Whether we want to believe so or not, we participate in the conception and reiteration of many discourses with our ordinary, everyday actions, and that participation has consequences.

Nowhere is the impact of discourse clearer than in contemporary presidential body politics; my research takes as its starting point the centrality of the president's body in the American imagination, providing an investigation of the interplay between what U.S. Presidents say and do, how those statements and actions are perceived by the public, and how successfully the presidents are then able to adapt to the popular feedback they receive. Barack Obama's body, as the first black Executive body, also provides a unique opportunity to break down assumptions about which actions, words, and scripts do and do not qualify as "executive."

Through the discourse analysis of two texts—one spoken by President Obama and another characterizing him and his words—I look not to discover a final "truth" about the intentions of either the President or public responses. Instead, I endeavor to recreate the discursive space in which the things Americans value as "truths" about our executive and his relationship to the nation come to hold that value. In so doing, I hope to move our understanding away from the false impression of a post-racial society and instead shine a light on the struggles that still await the President and the public.

## SPIRITUAL AND SECULAR HEALING DRIVEN BY A PRAGMATIC IMPULSE

Troy Robinson

Spiritual healing is a common practice in Pentecostalism (charismatic Christianity); it involves a pastor placing hands on an individual in an attempt to cure a physical or mental illness using the power of the Holy Spirit. Recent medical and technological advancements have allowed health professionals to gain further knowledge on the human body at the molecular level. In turn, treatment plans for a vast variety of illnesses have drastically improved. This project will explore the way in which an individual of a Pentecostal church is perceived by fellow members after resorting to a secular solution to resolve a health problem. I will research preexisting literature, use participatory field work, and conduct informal interviews to gather information. I expect an apparent relationship to exist between socio-economic class and the level of dependence on spiritual healing.

HE'LL LOVE YOU, BUT FIRST YOU MUST SUBMIT:  
A WOMEN'S ROLE IN PENTECOSTAL CHURCHES

Ariel Schonfeld

The role of women in Pentecostalist Churches has been a matter of interest since the beginning of the Pentecostal movement. As Pentecostalism has evolved, women have experienced many changes such as in their leadership roles, equality, and individual and collective values of self-worth. The Women's Movement has had a large influence for women Pentecostalists and their power in church has always been an area of interest for scholars.

For my research, I analyze how women are viewed and regarded in the church services I am attending across branches of Pentecostalism. I will compare my field observations to the way women are viewed in other Pentecostalist Churches around the world. I believe my research will shed light on gender equality by analyzing women's roles in church and illuminating aspects of the social class system in terms of religion. Ultimately, my research leads me to ask the question: How do women maintain their values of equality, while at the same time submitting themselves to men?

## WHAT'S WRONG WITH THE EURO?

Chuck Seergy

The financial crisis in the Eurozone has captured recent headlines across the globe. While studying abroad in the United Kingdom I took a class on the European Union and witnessed social unrest in countries such as Spain, Italy, and Ireland whilst traveling because of unemployment and austerity measures.

In my project, I will follow up on my research from abroad by examining the ongoing European Sovereign Debt Crisis and analyze the fundamental flaws of the structure of the European Union through a Keynesian and Minskian perspective. I will do this by researching recent scholarly articles and policy implications regarding the Euro.

The intention of this project is to shed light on the ongoing problems in the European Union, showing a system with a monetary union is flawed without a fiscal union. A structural problem with the Euro, one of the world's strongest currencies, puts the global economy at risk: due to today's global economy, what happens in the Eurozone, will impact markets here in the US.

## “GENERATING RISK”: A STUDY ON REPO MARKET AND ITS CREATION OF RISK

Robert Serenbetz

This paper will analyze the repurchase agreement and its relation to the financial system. A repurchase agreement (repo) is the sale of a security in combination with the obligation to buy the security back at a later date. By the end of 2004 the repo market (the market for repurchase agreements) was estimated to have reached US\$ 5 Trillion, as the repo market was essential to fund the shadow banking system. The reliance on this type of funding generated substantial fragility within the financial system. As the financial crisis unfolded, a run on the repo market that created massive insolvency in the banking system, leading to the liquidity crunch and a freezing of credit markets. Using the lens of the financial instability hypothesis and researching the mechanics of the product, the purpose of market, and the way in which the products failed. I hope to identify the expansive network and exposure to credit risk. Is the system susceptible to another run on the repo market?

## DO TEACHERS USE THE BOOKS? ATTEMPTING TO INCREASE THE LITERACY SKILLS OF LOW INCOME GENEVA PRESCHOOLERS

Danielle Shaw

While it has been proven that providing low-income preschool students with high quality books increases their literacy skills, an essential question remains unanswered: how are the books utilized and implemented in the classrooms? This question drives my research into the Geneva Reads Book Distribution Program, a local literacy building initiative. Understanding how donated books are utilized and implemented at each distribution site is essential in helping Geneva Reads gain a firm understanding of how its time and resources affect the low-income preschool students they hope to aid.

By conducting in-person interviews with teachers or administrators from each distribution site, data regarding the execution of the Geneva Reads Program will be gathered. The key topics that will be addressed in these in-person interviews include whether or not the books are being utilized, and if so, how they are being implemented.

I hope to find that donated books are being both utilized by teachers and implemented into lessons or read aloud sessions. I hope also to find that books are being periodically sent home with students including information directed to parents about how to read to their children and the importance of literacy.

## COMPARING THE EARLY PENTECOSTAL MOVEMENT TO EARLY CHRISTIANITY

Walter Stamm

In this presentation, I will discuss the similarities that the Pentecostal movement in the early 20<sup>th</sup> century shared with the early Christians at the founding of the religion. From the modest ancient homes of the Near East to the historic 312 Azusa street, I will analyze the movements meeting places, the followers who joined the movement, the rituals and beliefs they shared, and even the leaders themselves, all can be shown to be strikingly similar. I will further discuss the socio-religious elements that cause these similarities between the two and the cyclical relationship between charismatic and bureaucratic religion.

“YO MS. THOMAS, WHY DOES THE MOON GOTTA MOVE SO SLOW IT’S BORING!”

Lara Thomas

Environmental education is both salient and effective for many science students, but it is often excluded from science curriculum due to the temporal, spatial, and resource restraints of modern public school classrooms. At the same time, our students reflect the digital society into which they were born. If today’s students are technology savvy and responsive to media, maybe we can invite these resources into the classroom and view them as tools to aid engagement and learning.

In an effort to explore the intersection of these issues, I produced a documentary video to demonstrate that technology-enhanced nature-based curriculum can aid student engagement in science curriculum, and to discuss the challenges and triumphs that were encountered when this style of curriculum is employed in a variety of educational settings.



## CHILD ADVOCACY AND THE CHAIN OF COMMAND

Raymond Thomas

The goal of my project was to gain first-hand experience in the child-welfare system; through an internship with the Child Advocate of the State of Rhode Island, I experienced and explored the Child Welfare system first-hand with the attorneys, investigators, and social workers within the Child Advocate's office. My time with these charismatic professionals provided with me a greater understanding of the legal system, child welfare system, networks care-providers, investigative processes, the child parole/probation system, and simply how to conduct oneself as a worker within the social welfare system.

In terms of duties, the Child Advocate's office oversees DCYF (Department of Children Youth and Families) and the network care-providers in which child active within the department are placed into. The mission of the Office of the Child Advocate is to "protect the legal rights of children in state care and to promote policies and practices which ensure that children are safe; that children have permanent and stable families; and that children in and out of home placements have their physical, mental, medical, education, emotional, and behavioral needs met."

My main findings suggest that the chain of conduct is often not followed correctly or set up efficiently for various reasons, and is a main reason for the problems within the child welfare system in Rhode Island.

## CONTROL FRAUD: THEFT BY DECPTION

Brittany Thurman

I will explore and analyze control fraud within the Savings and Loans debacle of the 1980's and the recent Global Financial Crisis. I will compare and contrast certain instances of control fraud within these crises and describe control fraud's devastating impacts on our financial and business industry, as well as our national and global economy.

William K. Black defines a control fraud as a company run by a criminal who uses control as a weapon and shield to defraud others, making it very difficult to detect and punish<sup>1</sup>. I will use the expertise of Black and others in criminology and economics to conduct my research.

I hope to prove that control fraud is a significant, ongoing danger in business that requires active regulators to contain it, as market forces alone will not stop it. By establishing linkages between the two crises, I will determine if the U.S. has made progress, remained the same, or worsened in terms of the magnitude and extent of control fraud from the 1980's to today. I hope to determine several implications of what we need to do in the future to contain or eliminate it.

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<sup>1</sup> Black, William K. *The Best Way to Rob a Bank Is to Own One: How Corporate Executives and Politicians Looted the S & L Industry*. Updated ed. Austin, TX: University of Texas, 2013. Print.

## BREATHE IN AND WRITE OUT: THE HEALTH BENEFITS OF EXPRESSIVE WRITING ON EMOTION SUPPRESSION

Bryнна Trumpetto

As a society, we tend to view constant display of emotions as superfluous and a sign of weakness, inhibiting healthy discussion of life stressors and traumas. With this societal norm as a backdrop, I decided to take on the role of investigator rather than skeptic.

My Research in the Clinical Psychology course (PSY 350) has given me the opportunity to explore research surrounding the relationships between emotional, mental, and physical health. The research indicates that, in the absence of adequate coping mechanisms for stress and trauma, emotion suppression and inhibition can alter brain function, suppress immune and endocrine system functioning, slow wound healing, and increase stress levels. There is abundant evidence, however, to support the hypothesis that emotional expression through writing can have significant ameliorating effects on the psychological and physical impacts of emotion suppression.

In this presentation, I will review the scientific research supporting the theory that expressively writing about past or present stressors and traumas can dramatically reduce the negative health impacts of emotion suppression. In addition, I hope to highlight the gaps in this field and look to explore new ways of explaining these relationships.

## THE ART OF SCIENCE, THE SCIENCE OF ART

Amy van Loon

The world of theater and the world of the organic chemistry lab may seem to be mutually exclusive to the untrained eye; my three years as a synthetic organic chemist and three years on the stage have taught me that the synthesis of a potential cancer treatment follows a path mirrored in the creation of a character like Helena in *A Midsummer Nights Dream*. By sharing my work I hope to show how there is more science in the theatre and art in the lab than a student of only one discipline may expect.

My study of new organic molecules focuses on compounds closely related to those that have shown to have anti-tumor and anti-inflammatory properties. Over the past three years I have been able to successfully synthesize many of these compounds. The synthetic process involves first, a vision, then a stepwise plan and finally execution of this plan. Along the way, the research hits sticking points. Once all the kinks have been worked out, you are left with a beautiful product, ready to be shared with the world, much like a piece of art.

Likewise, a character is built over time, bit by bit, until finally a whole person is created and ready to be shared with the world. The play read is like the synthetic plan. It's a template. Then you have a vision of your character, and how you will find them. Just as in a chemistry lab, the execution of this vision and plan is where you are tested as an artist, and I say, a scientist.

## HEALING THE SOUL WOUND OF NATIVE AMERICA

Zoë Van Nostrand

For the past year, I have explored the idea of a ‘soul wound’ in an Honors project for my individual major, Social Justice: Rights of Indigenous Peoples. The concept of the soul wound is known under a variety of terms: historical trauma, pain-body, intergenerational trauma, and spirit illness. Building off the work of Eduardo Duran, I explored the concept of the soul wound to discover its historical roots. I considered how the soul wound was caused, and what legacy it left on the collective American Indian psyche. It is my supposition that the genocidal policies of colonizing Europeans, and later the American government, left a deep psychological trauma on the North American indigenous community that spans generations.

Through exploring international definitions of genocide, human rights, and indigenous rights I have created a foundation for understanding the trauma within the American Indian community and its contemporary ramifications. While I recognize the extreme diversity present within the different cultural communities of Native America, for the sake of this research I have viewed the soul wound within a Pan-Indian identity context. I chose to do this because most of the actions and policies against American Indians were applied monolithically.

In the Finger Lakes area, the traditional land of the Six Iroquois Nations (Haudenosaunee), I studied a series of local, native-lead programs and organizations that promote solutions for healing the soul wound. These efforts are vital to understanding that the historical trauma and pain can be healed in native communities.

## THE DESIGN WITHIN FILM

Mary Claire Vatinel and Emily Vollo

To gain insight and better understanding into the world of production design, we closely investigated not only the film industry itself, but also what developing a production entails. We have developed our own interpretation of the design process and have created a contemporary design for the visuals of two classic fairy tales, *The Little Mermaid* and *Hansel and Gretel*. Just as an architect would construct a design for a patron, a production designer must design for a script, its characters, producers, directors, and authors.

As designers we developed a relationship with our characters in order to create an image that all viewers would be able to consciously (and subconsciously) appreciate. Our process began with extensive research in all the areas that pertained to our initial ideas and directly to the particular stories we have chosen. We have developed several drawings, models and costumes to create a contemporary visual for *The Little Mermaid* and *Hansel and Gretel*.

## WEAVING THE RHYTHMIC FABRIC: VERTICAL AND HORIZONTAL RHYTHMIC LAYERS IN THE MUSIC OF AVICII

Soeren Wacker

Dance music's ability to be simultaneously relaxing and intense, predictable and varied, and simple and complex, is often related to its rhythmic construction. This music often creates different layers of vertical complexity and horizontal complexity. My presentation focuses on rhythmic layers and the interaction of vertical and horizontal complexity in the music of Avicii.

Dance music tends to balance dense vertical layers with clear-cut horizontal construction. The vertical layers often simultaneously present even, predictable rhythms alongside syncopation (rhythms emphasizing offbeats) and "diatonic" rhythms, or the placement of an odd number of notes or drum hits across the span of an even number of beats in such a way that they are almost evenly spaced, but not absolutely evenly spaced (e.g. 7 across 12, instead of 6 across 12). This diatonic rhythm provides a sense of complication; to balance this vertical complexity, straightforward horizontal repetition allows dancers to still predict what's going to happen next.

I will present analyses of three examples from Avicii that highlight his different approaches to the balance of vertical and horizontal rhythmic complexity, and discuss how this balance might affect listeners and dancers in different ways and make a work seem more or less danceable, interesting, or predictable. The interplay of vertical and horizontal rhythmic phenomena serves as a central force in making dance music both complex and participatory, appealing to our heads and our feet.

## CREDIT DERIVATIVES AND THE FINANCIAL CRISIS

Bowen Wang

Most people agree that the lack of regulation in the derivative market played a significant systemic role in the 2007 and 2008 crisis. This project explores how credit derivatives may have contributed to the crisis and the regulatory changes that have impacted the credit derivative market since the crisis.

In order to understand the systemic impact of these derivatives, I first review the mechanics of credit derivatives including credit default swaps, CDX indices and ABX subprime indices. I also discuss the risks adhered with these derivative contracts. Then I examine the developments in credit derivative market and how these over the counter (“OTC”) derivatives functioned during the crisis. I show the links between derivatives and different other markets, and how the collapse of subprime mortgage market led to the ultimate turmoil of the economy.

Finally, I summarize and analyze the implementation of different regulations in the credit derivative market since the crisis. I will offer my policy recommendation to the credit derivative market to create a more transparent credit derivative market with less risk.



## CHILDREN'S LITERATURE AND ITS ROLE IN SOCIAL AND COGNITIVE DEVELOPMENT

Arianna White

This project's goal is to reinforce the belief that success is achieved through hard work and perseverance, not simply through having a high IQ or innate skill. Telling a child his or her work is attributed to "being smart," sets him or her up for failure later in life when the work requires more than one try. It's our job to educate children to be hard workers, not people who try once and give up if they don't immediately succeed.

To present these ideas from developmental psychology, I wrote and illustrated a children's book. The theme of the book reinforces children's beliefs that they can be whatever they want to be, challenging stereotypes within gender development and its effect on career path. This book focuses on young girls specifically, as they're still subject to false, stereotypical beliefs even in our modern day. Publishing the book will allow me to distribute it to children in the Geneva area specifically and will make it available for libraries all over the country to purchase for a very low cost.

## THEATRE FOR HEALTH

Nicole Zanghi

Theatre for social change is an expanding field that uses theatrical approaches to address complex and difficult issues such as trauma, social inequality/injustice and potential methods of reform in an informative and engaging manner. As a pre-med student and a theatre enthusiast, I am particularly interested in using my Honors project in Health Science and Society to apply theatre for social change to issues of health care inequality, medical ethics, and end of life care in an accessible and interesting way.

Through the public production of Anna Deavere Smith's *Let Me Down Easy*, I hope to trigger dialogue among audience members and the wider community regarding the social issues of health and medicine, especially in the arena of health care reform. A talkback session after the performance initiates this discussion, revealing and hopefully altering attitudes about health care in our society. Audience responses to the show and the discussion will be collected to assess the effectiveness and hopefully the social impact of the production.

## TARGETING THE mTOR PATHWAY IN NEXT GENERATION CANCER TREATMENTS

Andrew Zenger

The phosphatidylinositol 3-kinase/protein kinase-B/mammalian target of rapamycin (PI3K/AKT/mTOR) pathway is a cell survival signaling pathway that has strong implications on vital cellular processes such as growth, proliferation, cytoskeleton organization, protein syntheses, and ribosomal biogenesis. The pathway has been found to be misregulated in many different types of cancer, making it an attractive target for cancer treatments. The PI3K/AKT/mTOR pathway culminates in the activation of mTOR, a protein kinase responsible for activation of proteins involved in protein synthesis, cell proliferation and cell survival. For this reason, inhibition of mTOR was an attractive target for researchers trying to combat the misregulation of this pathway. mTOR is a protein kinase that is found on two structurally and functionally different protein complexes mTOR Complex 1 and 2 (mTORC1, mTORC2), making it a difficult target for inhibition. The kinase domain on mTOR provided a location that was able to be inhibited on both mTORC1 and mTORC2, and this was accomplished through the development of mTOR Kinase inhibitors. Ultimately it was discovered that simply mTOR inhibition was not sufficient as it induced a feedback activation loop which reactivated mTOR through rephosphorylation of AKT. This attenuated any therapeutic effects the drugs had. Current research is focused on preventing the activation of this feedback loop through more potent inhibition of mTOR and through the use of dual inhibitors that target both AKT and mTOR. A potential cancer drug called AZD2014 is now in stage I clinical testing and has shown promise as a very potent mTOR inhibitor. If combined with an AKT inhibitor this could prove to be a very powerful and relatively non-toxic cancer treatment.