



New York University  
College of Arts and Science

**37th Undergraduate Research Conference**  
**Friday, April 15, 2011**

All panel presentations will be held in various classrooms as indicated.  
Posters will be displayed in Hemmerdinger Hall and Silverstein Lounge on the first floor of the Silver Center.

**Morning Panels**

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**Poster Sessions**

**9:30 AM – 12:00 PM**

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## **Neural Science: Aspects of Brain Development I**

Room 101, Jurow Hall, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Marisa Carrasco-Queijeiro, Psychology

Professor Trace Jordan, Morse Academic Plan

Professor Anthony Movshon, Neural Science

Harris Kaplan *Biology*

Synchronization of the Molecular Clock in *Drosophila* Pacemaker Neurons

Anastasios Mirisis *Neural Science*

The Role of the Akt Protein Kinase in Acute and Chronic Stress Responses

Na Sun *Neural Science*

Presenilin and Vesicle Glutamate Transporters

Kevin Woods *Neural Science*

Auditory Chimeras: Developing a Speech-Music Hybrid Stimulus

Raymond Xu *Neural Science*

Early Overgrowth of Serotonin and Quadratic Changes

## **Writing and Speaking in the Disciplines**

Room 207, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Deena Engel, Computer Science

Professor Paula Feid, Public Services, Undergraduate and Institutional Services, Bobst Library

Professor Denice Martone, Expository Writing

Professor Andrea McKenzie, Expository Writing

Anthony Bracco *Social Work*

LGBT Suicide Within the Economic Classes

Stephanie Fernandez *Psychology*

Do Social Communicative Cues Induce Infants' A-not-B Error?

Emily Gang *Early Childhood Education*

Designing Training Tools for Teachers to Help Identify ADHD in Pre-adolescent Girls

Natasha Kharas *Neural Science*

mGluR Regulation of ER Stress upon Induction of mGluR-LTD

Laura Marcucci *Social Work*

How Did Social Work Affect Italian Immigrants to the US in the 20th Century?

Alexa Schaeffer *Social Work*

Isolation and Change: Female African Immigrants and Access to Social Services in NYC

Jenny Yeh *Biology*

Interactions between CwlJ, GerQ, and Tgl in *Bacillus Subtilis* Spores

## **Global Environmental Issues**

Room 300, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Mosette Broderick, Urban Design and Architecture Studies

Professor Sergei Dubovsky, Physics

Professor Jing Li, East Asian Studies

Professor Christopher Schlottmann, Environmental Studies

Professor Friedrich Ulfers, German

Nathaniel Elghanayan *Computer Science* and

Laurel Su *Politics*

A Comparative Analysis: Appealing and Influential Factors in Cities for the Future Innovative Generation

Emily Gilbert *Environmental Studies*

The Socioecological Impacts of Refugee Camps—Case Study: Liberia 1990-2010

Alison Nill *Environmental Studies and Economics*

The Effect of Water Availability on Soil Greenhouse Gas Fluxes and Plant Community Interaction in High Elevation Meadows

Raphael Orlove *History and German*

A Clash of Interests: West German Environmental Debates and the Automobile, 1980-1989

Jessica Tsang *Urban Design and Architecture Studies*

System Failure: An Analysis of Flows of Electronic Waste in Ghana

## **Spanish and Latin American Literature and Culture**

Room 301, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Lourdes Dávila, Spanish and Portuguese

Professor James Fernández, Spanish and Portuguese

Professor Paul Fleming, German

Alice Blumenfeld *Comparative Literature*

Rocío Molina and Israel Galván: Redefining Flamenco Dance without Gender Distinctions

Kristen Brooks *Iberian Studies*

Redefining Agustín Ibarrola: Three Studies in Wood

Karen Kuhn *Anthropology and Linguistics*

Portraits of the White Uniform: Linguistic Play and Cultural Symbols in a Catalan Sports-Comedy Series

Carolyn Park *Art History and Spanish*

The Language of Conceptual Art in Buenos Aires: Mass Media Art, Oscar Masotta, and Anti-Happenings

Grace Pryor *Romance Languages*

Dissecting the Cultural Imaginary: An Examination of Spanish Artists in 1920's New York

Matthew Tanico *Spanish and Italian*

Cervantes's *Arte Moderno*: Theatrical Origins of the Modern Novel

## **Literature through the Ages I**

Room 511, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Marion Casey, Irish Studies

Professor David Engel, Hebrew and Judaic Studies

Professor Juliet Fleming, English

Professor Paula McDowell, English

Abigail Dunn *English and American Literature*

"Joy I Ate It": Solomon's Song of Songs in James Joyce's *Ulysses*

Josh Katz *Comparative Literature*

The Israeli Stalags of the 1960s: Mis-Representing the Holocaust

Isabel Lane *Russian and Slavic Studies*

Useless Fossil: Translation of Venedikt Erofeev's Notebooks

Shannon Mich *Comparative Literature*

Making This Text the Bliss It Works to Be: Self-Translation in the Work of Nicole Brossard

Alexander Tatusian *English and American Literature*

"Tutto": The Might of Music in Joyce's "Sirens" through Reinterpreting, Rereading, and Recording

Emile Young *English and American Literature, Anthropology and Classical Civilization*

Unlocking the Ferthcofa: Discourse of Loyalty in the "Finn Episode" of *Beowulf*

## **Issues in Linguistics**

Room 711, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Christopher Barker, Linguistics

Professor Paul Buchholz, German

Professor Pat Hoy, Expository Writing

Professor William Morgan, Expository Writing

Professor Crispin Wright, Philosophy

Linden Bairey *Linguistics*

Caught in California: Phonetic Conditioning of the Low Back Vowel in California English

Ruth Brillman *Anthropology and Linguistics*

Subject and Imperative Agreement in Masarak

Rachel Dudley *Linguistics*

Putting *Un Servidor* to Work: A Window into the Nature of Verbal Agreement in Spanish through Imposter Constructions

Michael Feder *Psychology*

Meaning from Sound: Inferring Spatial Distance from Different Vowels in Words

Lindsay Kelley *Anthropology and Linguistics*

Language, Identity, and Attitudes Among Caribbean American New Yorkers

Kristina Lustig *Linguistics*

Orthographically Speaking: The Phonetic Difference Between <b> and <v> in Buenos Aires Spanish

Amanda Rysling *Linguistics*  
Morphological Exceptions across Verbal Aspects in Polish

### **Social Concerns in Health Care**

Room 410, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Patrick Eichenberger, Biology

Professor Meryl Gordon, Journalism

Professor William Serrin, Journalism

Professor George Solt, History

Joseph Colucci *Economics*

Medicare and Medicare Advantage Insurance Selection

Nikola Dragovic *Sociology and Journalism*

AIDS and Society: A Historical Perspective

Ava Feuer *Journalism and English and American Literature*

Quiet Suffering: Male Eating Disorders

Jacob Kirkorowicz *Anthropology*

What's a Girl to Do? How Transgender Women in New York City Overcome Barriers to Health Care and Housing Services

Ga Young Moon *Biochemistry*

Medical Spanish

Paulina Reso *Journalism and Psychology*

Internet for All? How the Visually Impaired Access the Web

Erika Ryan *Social and Cultural Analysis* and

Zoe Ginsburg *Metropolitan Studies*

Legislating the Margins: Medicine, Law, and the Hegemony of the Normal in Sex Offender Legislation since 1990

### **Contemporary Global Conflict**

Room 500, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Oeindrila Dube, Politics

Professor Michael Gilsean, Middle Eastern and Islamic Studies

Professor Marion Katz, Middle Eastern and Islamic Studies

Professor Peter Rosendorff, Politics

Professor Muserref Yetim, Politics

Raphael Giannini *Politics*

The Relationship between Human Rights Violations and Terrorist Activities

Yasmin Karimi *Politics*

When Money Matters: Foreign Direct Investment and Institutional Instability

Rebecca Racine *Politics*

Does Foreign Aid Reward Respect for Minority Rights? Examining the Relationship between Foreign Aid Allocation and Minority Group Treatment in Recipient Countries

Deena Sami *Middle Eastern and Islamic Studies and Journalism*  
Revolution: Why Egypt? Why Now?

Michael Schaeppi *Politics*  
Elasticity of Demand for Tourism in Times of Crisis and Uncertainty

Chere See *International Relations*  
Two Sides of the Same Coin: Human Rights of Host and Investor Countries as Determinants of Foreign Direct Investment

Eli Wilkins-Malloy *Latin American Studies*  
Understanding the Emergence and Importance of Social Inclusion in Development Initiatives: Lessons from Fundación Pro Vivienda Social

### **Culture and Society I**

Room 701, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Betts Brown, Social and Cultural Analysis

Professor Thomas Ertman, Sociology

Professor Jennifer Morgan, Social and Cultural Analysis

Professor Randall White, Anthropology

Jennifer Furman *Comparative Literature and Spanish*  
The Jewish Agricultural Impulse: The Case of the Colonies of Argentina

Hilary Goodfriend *Latin American Studies*  
La Lucha Continua: Women in the Salvadoran Social Movement

Kristina Grosspietsch *Anthropology*  
American Stereotypes in French Cinema: A Vital Role in Reaffirming National Identity

Lee Johnson *Social and Cultural Analysis*  
A Study of Chinese Orphanage Care of Preschool Children with Disabilities

Rathna Ramamurthi *Politics and Psychology*  
Mixed Race Anxiety, Racial Phenotypicality, and Support for Obama

Emily Stainkamp *Social and Cultural Analysis*  
Corrupt Minds, Animate Bodies: Queering *Ren and Stimpy* for the Child Spectator

Camilo Werlin-Martinez *Anthropology*  
When It's Okay to Fall: Culture's New Imprint on the Practice of Capoeira In Brooklyn

### **Gender Studies: A Global View**

Room C-2, 25 West 4<sup>th</sup> St.

**9:30 AM – 11:30 AM**

Judges:

Professor Sanford Gordon, Politics

Professor John Moran, French

Professor Bryan Waterman, English

Professor Angela Zito, Religious Studies

Francesca Eick *History and French*  
"Malibongwe Makosikazi!" Let the Women Be Praised

Christopher Johnson *International Relations*  
Gay Rights: HIV/AIDS Prevention and Treatment Spending Determinant?

Kelsey Kline *English and American Literature*  
Extending the Narrative: Era Bell Thompson and Alternative Forms of Black Journalism

Meredith Larson *French and Italian*  
Veronica Franco: In Defense of Women and in Defiance of Gender Identities

Isabella Moschen *Journalism and Latin American Studies*  
Guatemalan Female Refugees: Crime, Persecution, and One Woman's Quest for Asylum

Katherine Pan *Sociology*  
Good Bush, Bad Bush: Self Representation of Women's Gender/Sexual Identities in Grooming Behavior

Lindsey Thomas *Journalism and Spanish*  
Milicianas and Madres: Representations and Roles of Women in an Illustrated Magazine of the Spanish Civil War

### **Interpersonal Relationships**

Room 510, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Emily Balcetis, Psychology

Professor David Wolitzky, Psychology

Nikolas Block *Psychology*

Transference and Regulatory Strategy: Regulating Specific Significant Others

Bram Schumer *Psychology*

Effects of Perceived Power Discrepancies on Willingness to Act Against an Out-Group

Chadly Stern *Psychology*

The Influence of Commonality in Power Discrepant Groups

### **Global Issues Past and Present**

Room 505, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Irina Belodedova, Russian and Slavic Studies

Professor Yanni Kotsonis, History

Professor Maria Montoya, History

Professor Elliot Wolfson, Hebrew and Judaic Studies

Taly Matiteyahu *History and Spanish*

Strategies of Survival: Lithuanian Jews and the Holocaust

Raphael Rabinowitz *Chemistry and History*

The Myth of the Grand Alliance: Anglo-American Tensions during World War II

Daniella Regencia *Classical Civilization*

Ghosts, Thieves, and Conspirators: A Look at Ancient Roman Nighttime Fears

Liyamol Thachil *Politics*  
China: The Secret Imperialist

Thomas Zuber *History and Medieval and Renaissance Studies*  
Cristero Narratives: Martyrdom and State Formation in Post-Revolutionary Mexico

### **The Urban Divide**

Room 907, Silver Center

**9:30 AM – 11:30 AM**

Judges:

Professor Bernd Beber, Politics

Professor Colin Jerolmack, Sociology and Environmental Studies

Professor Harry Kitsikopoulos, Economics

Professor Yvonne Latty, Journalism

Holly Jones *Environmental Studies and German*

The Conservation Ideology of Bernhard Grzimek: Origins and Implications

Hannah Murphy *Journalism and Sociology*

Between the Street and the Home: Tent Cities and Seattle's Homeless

Laurel Schwab *Environmental Studies*

Nature's Rights: An Exploration of Ecuadorian Environmental Attitudes

Ashwini Srinivasamohan *Environmental Studies*

Eco-cities and Urban Sustainability

Ashwini Srinivasamohan *Environmental Studies* and

David Payne *Environmental Studies*

The Masdar Plan: Abu Dhabi's Struggle to Create a Sustainable City

### **Molecules of Living Systems**

Room 667, Waverly

**9:30 AM – 11:30 AM**

Judges:

Professor Justin Blau, Biology

Professor Mary Killilea, Biology

Professor Stephen Small, Biology

Mohit Bahel *Mathematics and Biology*

The Mathematical Quantification of the Dpp Gradient

Gregory Goldberg *Biology*

A Stochastically-Expressed Transcription Factor in the *Drosophila* Eye Activates Two Downstream Genes with Disparate *cis*-Regulatory Logic

Casey Griffin *Biology*

Testing the Integrated Effect of Nitrogen and Light Signaling on the Transcriptional Regulation of the Nitrogen Assimilatory Pathway in *Arabidopsis*

Melissa Ingram *Biology*

Investigation of Transcriptional Feed-Forward Loop Involved in the Regulation of Asparagine Metabolism

Elizabeth McCord *Chemistry*

Long Distance Photoinduced Electron Transfer in Oligomeric Porphyrin-[60]Fullerene Dyads with Triazole-Based Conjugated Linkers

### **Mathematics and Modeling in Understanding the Physical World**

Room 435, Waverly

**9:30 AM – 11:30 AM**

Judges:

Professor Andre Adler, Physics

Professor Burton Budick, Physics

Professor Matthew Leingang, Mathematics

Professor Yuri Tschinkel, Mathematics

Clement Chan Yat Hin *Economics and Mathematics* and

Michael Hirsch *Mathematics*

An Understanding of Stratospheric Modeling and Ozone Depletion

Aukosh Jagannath *Mathematics and Physics*

Probabilistic Modeling of Tidal Streams

Samantha Lozada *Mathematics*

Glucose Regulation in Diabetes

Michael Sharpnack *Mathematics*

Stochastic Modeling of Prion Disease Formation

Michael Weiss *Mathematics*

The Karatsuba Middle Product for Integers

## **Afternoon Panels**

### **Health and Developmental Issues**

Room 907, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Nicola Cipani, Italian Studies

Professor Haidy Geismar, Anthropology and Museum Studies

Professor Mark Siegal, Biology

Professor Rita Wright, Anthropology

Nikita Agrawal *Anthropology*

Bacteria, Viruses, and Fear: Reconsidering Vectors of Communication through Cardiovascular Disease in Mayange, Rwanda

Serra Akyar *Anthropology and Chemistry*

Perceptions and Management of Hypertension in NYC

Mary Burgess *Anthropology*

“My, What Big Teeth You Have!”: Postcanine Megadonty in Anthropoid Primates

Anita Burgos *Biology*

Rho 1 GTPase Is Involved in Generating Circadian Rhythms of Activity in *Drosophila*

Alina Tsouristakis *Hellenic Studies*

The Cretan Paradox: Surprising Obesity Epidemic in Crete

Noam Zeffren *Jewish History and Civilization*

Do Patients with Cirrhosis Have a Lower Incidence of Barrett’s Esophagus?

### **Literature through the Ages II**

Room 435, Waverly

**12:00 PM – 2:00 PM**

Judges:

Professor Patrick Deer, English

Professor Toral Gajarawala, English

Professor David Hoover, English

Professor Martha Rust, English

Sam Gold *English and American Literature*

“If I’d a knowed what a trouble it was to make a book I wouldn’t a tackled it”: The Problematic Voice of Huckleberry Finn

Eve Goldminz *English and American Literature*

“The unaided effort”: The Possibility of Child-Authored Fiction

Matthew Margini *English and American Literature*

Unidentified Barking Objects: How Elizabeth Barrett Browning and Emily Dickinson Rethink the Ontology of Dogs

Alexandria Margolis *English and American Literature*  
Mutinous Melville

Katharina Smundak *English and American Literature*  
Movin' On Up: Conceptualizing and Negotiating the American Ideal in Carlos Bulosan's *America is in the Heart*  
and Jack Kerouac's *On the Road*

### **Classical Literature**

Room 506, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Raffaella Cribiore, Classics

Professor Eckart Goebel, German

Professor David Konstan, Classics

Professor Michael Peachin, Classics

Arun Bodapati *Politics*

Unfinished Wars: The Continuing Relevance of Depictions of War in the *Iliad* and *Mahabharata*

Simona Caplan *Religious Studies*

The Transmission of Tales

Lauren Drew *Classics and Art History*

Hearing Voices: A Study of Ovid's *Heroides* Versus Letters of Women in Greco-Roman Egypt

Sabrina Janesick *Classical Civilization and English and American Literature*

Heroes and Helplessness: Questions of Free Will in the *Iliad*

### **Issues in Law, Justice and Government**

Room 706, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Robert Boynton, Journalism

Professor Karen Greenberg, Law School

Professor Samuel Scheffler, Philosophy

Professor Alastair Smith, Politics

Negin Hadaghian *Politics*

The Variance of Asylum Recognition Rates among European Union Member States

Yevgeniya Kachan *Politics*

Does Voting Matter? A Look at Whether Voters are Better Represented Than Non-Voters by Their Senators

Randy Kreider *International Relations and Journalism*

Conflicted: Press Freedom during Wartime

Scott Lawrence *History, Italian and Linguistics*

American Departmental Conflicts in the Drafting of Japan's Postwar Constitution

William Maddock *Classical Civilization*

Ad Imperium

Stephanie Piper *History and Politics*

From Erzberger to Bruening: The Evolution of the German Catholic Center Party in the Weimar Republic

Waleska Suero *Politics and Sociology*

Economic Voting: Economic Performance and Vote Choice in Latin America and the Caribbean

### **Genes, Growth, and Development**

Room 500, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Patrick Eichenberger, Biology

Professor David Gresham, Biology

Professor Fei Li, Biology

Professor Barry Rugg, Chemistry

Kelly Clemenza *Biology*

The Evolution of a Flowering Time Cis-Regulatory Polymorphism in *Arabidopsis*

MinJu Kim *Biology*

Allometric Relationships in Organ Shape and Size in Plants

Daniel Martin *Biology*

The Localization of Non-Muscle Myosin in an ECT-2 Mutant during *C. elegans* Male Tail Tip Morphogenesis

Eric Siu *Biology*

Finding the COE Minimal Enhancer in the Atrial Siphon Muscle of the *Ascidian Ciona Intestinalis*

Marie Tosa *Biology and Environmental Studies*

Dispersal Patterns of a Social Group of Spider Monkeys in Belize

Maria Traficante *Biology and Anthropology*

Genetic Buffering in Genetically Diverse Knock-Out Yeast

### **Bacteria, Viruses, and Immunity**

Room 208, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Kenneth Birnbaum, Biology

Professor Nikolai Kirov, Biology

Professor Matthew Rockman, Biology

Elizabeth Glicksman *Biology*

Elucidating the Interaction between Two Spore Coat Morphogenetic Proteins of *Bacillus subtilis*

Jenny Yeh *Biology*

Interactions between CwlJ and GerQ in *Bacillus subtilis* Spores

Aleena Zahra *Biology*

The Endosomal Sorting Complex Required for Transport (ESCRT) is Required for Phagosome Maturation

**New York City: Long-standing Challenges and Dynamic Change**

Jurow Lecture Hall, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Boyan Jovanovic, Economics

Professor Brooke Kroeger, Journalism

Professor Suketu Mehta, Journalism

Professor Shelley Rice, Art History

Jenna Dodds *Metropolitan Studies*

Encountering the Urban Sublime in New York City

Sarah Henderson *Environmental Studies*

Community Garden Permanence: How Understanding Land-Use Values in New York City through the Historical Community Garden Conflict Lends Perspective to the City's Approaches towards Alleviating the Food Desert Crisis

Sophia House *Economics*

My Roof, My Rules: Paternalism in Homeless Shelters

Marian O'Neill *Spanish*

A Sociolinguistic Investigation on Dual-Language Education

Andrea Pagliai *Journalism and Comparative Literature*

Indefinite Transit: A Multi-Media Adventure

David Rowe *Art History*

Reaching the Right Audience: Programming Priorities in American Regional Art Museums

Sana Sherali *Psychology and Human and Social Development*

Lady Liberty: Influence of Goals and Energy on Distance Perception

**Access to the Arts: Displaying, Preserving, Performing, and Interpreting**

Room 300, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Una Chaudhuri, English

Professor Frankie Edozien, Journalism

Professor Jonathan Ritter, Urban Design and Architecture Studies

Professor Jindrich Zezula, French

Mary Dempsey *Anthropology and Classical Civilization*

Woodworking Techniques Applied to Furniture in Ptolemaic Egypt

Grace Linden *Art History*

Orientalism and Cultural Heritage: Egypt and the Bust of Nefertiti

Catherine Mastrangelo *Art History*

The Matter of Material: Toxicity, Alchemy, and Artisanry in Renaissance Art

Brendan Pettersen *Urban Design and Architecture Studies*

Breuer and Brutalism: A Case to Preserve the Atlanta Central Public Library

Deepika Setty *Art History and Journalism*  
Representations of Dance in Renaissance Art: Reflections of Courtly Distinction

**Neural Science: Aspects of Brain Development II**

Room 937, Bobst Library

**12:00 PM – 2:00 PM**

Judges:

Professor Andy Hilford, Psychology

Professor Denis Pelli, Psychology

Professor Daniel Tranchina, Biology

Stephanie Chen *Neural Science*

Brightness Contrast Decreases Hue Saturation

Natasha Kharas *Neural Science*

mGluR Regulation of ER Stress upon Induction of mGluR-LTD

Kritika Nayar *Neural Science*

From Local To Global Visual Processing: The Development of Illusory Contour Perception

Amelie Pham *Neural Science*

Development of Visuo-Motor Integration in Infant Pig-Tailed Macaques (*Macaca Nemestrina*)

**Psychology: Human Behavior and Perception**

Room 702, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Susan Andersen, Psychology

Professor Marisa Carrasco-Queijeiro, Psychology

Professor Gregory Murphy, Psychology

Monica Bhole *Economics and Mathematics*

Sequential Search: A Direct Test

Lok Yu Gladys Chan *Psychology and East Asian Studies* and

Danielle Bendicksen *Anthropology*

Perceiving Possibilities for Action in Different Motor Skills

Stephanie Fernandez *Psychology*

Do Social Communicative Cues Induce Infants' A-not-B Error?

Aaron Nizam *Psychology*

The Environmental Factors of the Vertical Meridian Asymmetry

Chadly Stern *Psychology*

Biased Distance Perception as a Means of Improving Goal-Directed Performance

Sam Zhang *Psychology*

The Effects of Energy and Motivation on Visual Perception

**Philosophical Thought**

Room 510, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Ned Block, Philosophy

Professor Arang Keshavarzian, Middle Eastern and Islamic Studies

Professor Larry Lockridge, English

Professor Japa Pallikkathayil, Philosophy

Aaron Henson *Philosophy*

The Problem of International Political Obligation: The Prospects for an International Natural Duty Theory

Jacob Krell *History and Comparative Literature*

Teaching Techne: Georges Canguilhem, the Pedagogy of Technique, and the 1968 Agrégation

Benjamin Pratt *Philosophy*

Future Selves and the Threat of Death

Eric Tracy *Philosophy*

How Normative Expressivists Can Abandon Non-Cognitivism (and Their Contrived Quasi-Cognitivism)

**The Politics and Economics of Education**

Room 667, Waverly

**12:00 PM – 2:00 PM**

Judges:

Professor David Cesarini, Economics

Professor Dalton Conley, Sociology

Professor Jeff Manza, Sociology

Jacob Alderdice *Metropolitan Studies*

2.3 Million Scholars: Liberal Arts College-in-Prison in the Era of Mass Incarceration

Mohammad Barkeshli *Economics*

Socioeconomic Status and Educational Attainment in Rural Tanzania

Michelle Dugan *Anthropology*

Constructing Identity and Success: Linguistic Practices in a Special Education Classroom

Nicole Karatzas *Hellenic Studies*

The Debate of Public versus Private Universities in Greece and the Role Played by the Student Movements

Lilly Padia *Social and Cultural Analysis*

Racial Consciousness Education and Adolescence in America

**The Economic Market: Productivity, Prices, and Profits**

Room C-2, 25 West 4<sup>th</sup> St.

**12:00 PM – 2:00 PM**

Judges:

Professor Nathaniel Beck, Politics

Professor Marc Lieberman, Economics

Professor Jenish Nazgul, Economics

Professor David Stasavage, Politics

Rupal Kamdar *Economics and Mathematics*

Contagion in Two-Tiered Banking Structures: A Network Analysis

Benjamin Levine *Economics and Journalism*

Functional Data Analysis of Economic Bubbles: Creating a Coherent Shape of Inflationary Phenomena

Ram Yamarthy *Economics and Mathematics*

Recreating the Financial Crisis: The Effect of Credit Shocks on Bond Yields

Zuo Yi *Economics and Mathematics*

The Chinese Saving Puzzle and the One Child Policy

Chen Zhao *Economics*

The Dynamic Formation of Limit Order Books

**The International Workforce: Issues in Labor and Economics**

Room C-14, 25 West 4<sup>th</sup> St.

**12:00 PM – 2:00 PM**

Judges:

Professor Anna Harvey, Politics

Professor Alejandro Quiroz-Flores, Politics

Professor James Ramsey, Economics

Professor Kevin Thom, Economics

Hahkyung Kim *Latin American Studies*

Korean Immigrants' Place in the Discourse of Mestizaje: A History of Race-Class Dynamics and Asian Immigration in Yucatán, Mexico

Clare Richardson *Politics and Spanish*

Relative Deprivation Theory in Terrorism: A Study of Higher Education and Unemployment as Predictors of Terrorism

Josh Sinha *Economics*

An Empirical Study on Immigration to the United States

Maria Woodman *Economics*

The Merit Order Effect of Intermittent Renewables under a Dynamic Pricing Scheme: An Analysis of the German Power Market

**Examining the Artist**

Room 301, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Dennis Geronimus, Art History

Professor Elizabeth Mansfield, Art History

Professor Lucien Nouis, French

Lily Allen *Art History*

Goya's Children

Matthew Foster *Art History and French*

Agnolo Bronzino's Portraits: Reverence, Rivalry, and the Paragone

Ko Sadakuni *Mathematics and Art History*

The Connection to Shinto: Hiroshi Sugimoto's Work on the Island of Naoshima

Joey Steigelman *Art History*

Willem de Kooning: Understanding the Woman Series

**Culture and Society II**

Room 505, Silver Center

**12:00 PM – 2:00 PM**

Judges:

Professor Lourdes Dávila, Spanish and Portuguese

Professor Anne Deneys-Tunney, French

Professor Chiara Ferrari, Italian

Professor Thomas Truxes, Irish Studies

Brittany Barnard *Spanish and Latin American Studies*

Imagining Latin America: The Visual Culture of Roosevelt's Good Neighbor Policy

Michael Broschart *Sociology and Anthropology*

No Child (Care Provider) Left Behind

Lily Frusciante *Spanish*

Redefining Culture and Politics: A Study of Ecuador's Indigenous Movement

Brenda Hwang *Politics*

A National Language? Bilingual Ballots and the Voting Rights Act

Angela Lelo *History and French*

Education and Integration: The Representation of School in Beur Literature

Anika Pyle *Metropolitan Studies*

Consuming Community: The Significance of Daily Food Practices to Community Belonging and Social Exclusion in a Gentrifying Neighborhood

## Poster Presentations

Hemmerdinger Hall and Silverstein Lounge

1<sup>st</sup> floor, Silver Center

9:30 a.m. – 12:00 p.m.

### Group 1

Judges:

Professor Terry Harrison, Anthropology

Professor Patrick Huggins, Physics

Professor Susan Rogers, Anthropology

Danielle Bendicksen *Anthropology*

Good Neighbors: Assessing Territoriality in Red Titi (*Callicebus discolor*) and Equatorial Saki (*Pithecia aequatorialis*) Monkeys

Megan Golightly *Anthropology*

Refining the Kot Diji Ceramic Chronology and Degree of Inter-site Interaction in the Indus River Valley

Jesse Wolfhagen *Anthropology*

Teaching Old Data New Tricks: Reintegrating Zooarchaeological Material from Neolithic Swiss Lake Dwellings into the Modern Academic Literature

### Group 2

Judges:

Professor Suse Broyde, Biology

Professor Edo Kussel, Biology

Professor Marc Walters, Chemistry

Professor Daniel Zwanziger, Physics

Sarah Abbassi *Biochemistry*

Isolation and Characterization of Potential New Lectins

Marcus Cimino *Biology* and

Peter Raimondi *Biochemistry*

Fidelity and Rate of Transcriptional Repair of RNA Derived from Damaged DNA

Jihye Kim *Biochemistry*

Loss of Transcription Factor Early Growth Response Gene 1 Results in Impaired Endochondral Bone Repair

Patrick Maffucci *Biology*

Detection and Removal of Anomalies in Astronomical Images Using Hough Transform and Robust Estimation

Navin Natarajan *Biochemistry*

Exploring the Iron Chaperone Function of PCBP3, PCBP4 and FMR1

Hanna Oh *Biology*

The Concentration Dependent Role of Semaphorin3A in Commissural Interneuron Pathfinding in the Developing Spinal Cord of *Xenopus laevis*

Sunny Patel *Biochemistry*

The Role of Lithium in Synaptic Protein Expression in Nuerons

### Group 3

Judges:

Professor Efrain Azmitia, Biology

Professor Richard Bonneau, Biology

Professor Sevinc Ercan, Biology

Professor Christine Rushlow, Biology

Shub Agrawal *Neural Science, Anthropology and Linguistics*

Using Near-isogenic Lines to Identify Complex, Non-additive Effects of Genetic Polymorphisms on Natural Flowering Time Variation

Maygen del Castillo *Chemistry*

Control of Germline Proliferation in *C. Elegans* Through Insulin Signaling Pathway

Krizia Gupiteo *Anthropology*

Tracing Ancestry through Breast Cancer Gene Mutations

Daniel Lia *Chemistry*

Deregulation of Genomic Methylation in Fetal Origins of Adult-Related Disease

Alicia Mastrocco *Biology*

The Role of the TOR1 Pathway in Yeast Cell Quiescence

Daniel McNelis *Biology*

Fine Mapping of the Head-Plugging Gene in *Caenorhabditis elegans*

Emmanuel Nisimov *Biology*

Evolutionary Divergence in the Blind Mexican Cavefish *Astyanax mexicanus*

### Group 4

Judges:

Professor Richard Borowsky, Biology

Professor Michael Carrozza, Biology

Professor Nikolai Kirov, Biology

Professor Ignatius Tan, Biology

Theresa Apoznanski *Biology*

Shadow Enhancers and Promoter Choice: Regulatory Mechanisms of Gap Genes in *Drosophila melanogaster*

Renee Marie Bogdanovic *Biology*

Repression of COE by HES/HEY Trans-factors during Heart Specification in *Ciona intestinalis*

Pamela Boodram *Biology*

*Daltonien*: A Mutant with Abnormal *Rhodopsin* Expression

Konstantin Brodetskiy *Neural Science*

A Photo-transduction Dependant Rhodopsin Repression Mechanism

Leatt Gilboa *Biology and Anthropology*

Large Gene Expression Patterns Due to Small Peptides of Upstream ORFs

Albert Li *Biology and Mathematics*

Effects of Rescue Gene on Zelda Mutants

Elizabeth McMillan *Biology and Mathematics*

Functional and Molecular Characterization of Stat92E Alleles

## Group 5

Judges:

Professor Claude Desplan, Biology

Professor David Fitch, Biology

Professor Carol Shoshkes Reiss, Biology

Professor Christine Vogel, Biology

Miruna Carnaru *Biology*

Au-HDL as CT Contrast Agent

Jeffrey Chan *Biology and Mathematics*

Time Course Expression of Plasma Cytokine Levels following Acute Hypotension and Associated Cognitive Dysfunction in Mice

Jiyao Hu *Biology*

Characterization of Cancer Cells Overexpressing miR-21 Precursor

Todd Rubin *Biology and Chemistry*

The Effects of Antioxidants on Muscle Satellite Cells

Tanya Stolper *Biology*

Minocycline Prevents the Impairment of Long-term Associative Memory Retrieval Caused by Lipopolysaccharide- Induced Inflammation in Mice

Timothy Wu *Biology*

Isolation of Adult Pacemaker Neurons Using FACS Sorting

Alvis Yuen *Biochemistry and Economics*

Identification of Protein Biomarkers for Radiation Exposure

## Group 6

Judges:

Professor Henry Brenner, Chemistry

Professor Burt Goldberg, Chemistry

Professor Neville Kallenbach, Chemistry

Thomas Brewer *Chemistry*

Design and Synthesis of a Novel Synthetic Scaffold to Mimic Alpha-Helical Conformation

Vincent Dodson *Neural Science and Chemistry*

Investigation of the Function and Regulation of ERK3

Rebecca Freilich *Chemistry*

Using Alpha Helix Mimetics via Hydrogen Bond Surrogates to Contact Nucleic Acids

Peter Liang *Chemistry*

PX-JX2 Conversion of a DNA Nanomechanical Device Attached to DNA Origami Tiles

Benjamin Little *Biochemistry and Economics*

Therapeutic Effectiveness: Measuring the Impairment of Axonal Transport of Mn<sup>2+</sup> with MRI to Evaluate Immunotherapy Effectiveness

## **Group 7**

Judges:

Professor Nicholas Geacintov, Chemistry

Professor Kent Kirshenbaum, Chemistry

David Bae *Chemistry* and

Alice Wang *Chemistry*

Synthesis of Hyper-Branched Polymeric MRI Contrast Agent via Reverse Micelle Crosslinking

Noelle Catarineu *Chemistry*

Synthesis and Study of Redox-Reconfigurable Molecular Switches

Erica Crosley *Chemistry*

Metal Oxide Clusters in Artificial Photosynthesis

Nina Schuchman *Chemistry*

Cyclooctene Supported Co(salen) Catalysts in the Aminolytic Kinetic Resolution (AKR) of Terminal Epoxides: A Route to Enantiopure 1,2-Amino Alcohols

## **Group 8**

Judges:

Professor James Canary, Chemistry

Professor Yoel Ohayon, Chemistry

Professor Marcus Weck, Chemistry

Serra Akyar *Chemistry and Anthropology*

Modeling the TCR-CD3 Complex

Kevin Schesing *Chemistry*

Investigating Nanoscale Chemical Reactions with Polymer Pen Lithography

E-Kyung Shin *Chemistry*

Crystal Growth Rate of Amorphous Indomethacin and Morphology Changes of Nifedipine Using AFM

JinJu Yi *Chemistry*

Molecular Capsules in Hydrogen-Bonded Host Frameworks

## **Group 9**

Judges:

Professor Adam Braunschweig, Chemistry

Professor Paul Gans, Chemistry

Professor John Halpin, Chemistry

Jason Gruener *Mathematics*

Preventing Bone Loss Due to Disuse with Bisphosphonate and Treating with Restored Weight-Bearing and Parathyroid Hormone

Laura Nocka *Chemistry*

Enhanced Conformational Sampling of Peptides Based on Mass Tensor Molecular Dynamics

Thomas Purcell *Chemistry*

Theoretical Model for Protein-Protein Inhibition

Jonathan Tang *Chemistry*  
Identification of Novel Activation Markers of Inflammation in Mice

### **Group 10**

Judges:  
Professor Nathaniel Daw, Neural Science  
Professor Lynne Kiorpes, Neural Science

Nikita Gupta *Neural Science*  
The Role of Amygdaloid Nuclei in Mediating Sidman Avoidance Response in Good and Poor Performers

Vish Gupta *Neural Science*  
Cognitive Enhancement through Exercise and Affirmations in an Elderly Population with a History of Substance Abuse

Ramanjot Kang *Psychology*  
The Effect of Early Moderate Hearing Loss on Adult Auditory Perception

Victoria Ko *Neural Science*  
Cone Photoreceptor Distribution and Temporal Resolution of Color Vision Across the Human Retina

David Lee *Neural Science*  
Drebrin A is Decreased in PScDKO Model of Alzheimer's Disease

Lokesh Shah *Neural Science*  
Changes in Calcium/Calmodulin-dependent Kinase II (CAMKII) at Hippocampal Synapses that Precede Neurodegeneration in Presenilin Conditional Double Knockout Mice, an Animal Model of Alzheimer's Disease

### **Group 11**

Judges:  
Professor Jean-Claude Franchitti, Computer Science  
Professor Evan Korth, Computer Science  
Professor Victor Shoup, Computer Science

Lara Antoy *Economics and Mathematics*  
Global Warming and Its Effects on Wine Production

Antony Kaplan *Computer Science and Physics*  
Non-Trivially Parallelizable Applications with zNet Framework

Dylan Karten *Economics and Mathematics*  
Towards Efficiency and Stability of the Forward Euler Method for General Stochastic Differential Equations

Jonathan Trope *Economics*  
Valuations and Technology in the Dot-Com Bubble

Nathaniel Weinman *Mathematics and Computer Science*  
Parallel Protein Folding

## **Group 12**

Judges:

Professor Andrea Dortman, German

Professor Pamela Newkirk, Journalism

Professor Charles Seife, Journalism

Monica Burton *Journalism and French*

Les Enfants Francophones: An Exploration of the Trend Toward Early-childhood French Instruction

Catharine Krebs *Neural Science*

The Effect of the Peer Wellness Program on Empowerment and Recovery of Formerly Homeless Individuals

Dana McCloskey *Economics*

An Evaluation of the Relationship between Stress, Body Mass Index and Ability to Lower Blood Pressure over a 6-Month Period in Veterans with Uncontrolled Hypertension

Dyan Neary *Journalism*

Agent Orange: Three Generations of Genetic Mutation?

Stella Savarimuthu *Spanish and Latin American Literature and Cultures*

Obesity and Underserved Populations: Efficacy of Resident Curriculum

Ben Smith *Urban Design and Architecture Studies and Economics*

Regulated Medical Waste in New York City

Jillian Voon *Journalism and Economics*

From Aberrance to Acceptance: The Evolving Perceptions of Tattoos Today

## **Group 13**

Judges:

Professor Beth Bauer, Psychology

Professor Bob Rehder, Psychology

Megan Chambard *Psychology*

A Model for Obstacle Avoidance Using Statistical Decision Theory

Alyson Gorun *Psychology*

Role of Control in Modulating Conditioned Fear Responses

Amanda Hersh *Psychology*

Effects of Serotonin Transporter Gene on Temporal Discounting Rates

Marianne Jacob *Biochemistry and Psychology*

The Effect of Familiarity on Perceptual Crowding

Min Kim *Psychology*

How Emotion and Attention Affect Perception: Perceptual Consequences of Anxiety and Negative Affect In Response To Fearful and Neutral Facial Expressions

Wendy Schnebelen *Psychology*

Auditory and Visual Thresholds Improve with Age, but Integration is Always Perfect

Melanie Wen *Psychology*  
Evaluating Visual Engagement Using Microsaccadic Eye Movements

**Group 14**

Judges:

Professor Todd Gureckis, Psychology

Professor Michael Landy, Psychology

Danielle Bendicksen *Anthropology* and  
Lok Yu Gladys Chan *Psychology and East Asian Studies*  
Development of Human Brachiation: Effects of Single Limb Support

Angela Char *Cinema Studies and Psychology* and  
Arhanti Sadanand *Psychology*  
Younger and Older Adults Scale Actions to Dynamic Body Properties

Katrina Garland *Psychology*  
Developmental Links Between Event Perception and Motor Action

Jennifer Kung *Psychology*  
Bridging the Gap: Sensitivity to Bridge Width and Gap Depth in Crawling Infants

Jennifer Kung *Psychology* and  
Katrina Garland *Psychology*  
Days of Our Lives: Opportunities for Learning about Language, Objects, and Locomotion

Casey Pitts *Psychology and Chemistry*  
Infants' Expectations of Monolingual or Multilingualism

Arhanti Sadanand *Psychology* and  
Angela Char *Cinema Studies and Psychology*  
Entrapment or Falling: Infants' Exploration of Action Possibilities

**Group 15**

Judges:

Professor Patrick Shrout, Psychology

Professor Tessa West, Psychology

Emma Celano *Psychology*  
Sharing and Caring: How Moms Respond to Infant Object Shares

Jessica Chung *Psychology*  
Developmental Change in Mother-Child Teaching Interactions

Lauren Gonzales *Psychology*  
Neglect Severity and Relationship Quality in Maltreated Foster Siblings

Tri Nguyen *Psychology*  
Preschoolers' Explanations for Moral Actions in a Social Context

Alexandra Rieck *Psychology*  
Mothers with PTSD: The Mediating Effect of Parenting Stress on Child Maltreatment

Kayla Varcoe *Psychology*  
Automaticity of Vowel Sound Influence on Spatial Distance Perception

**Group 16**

Judges:  
Professor Karen Adolph, Psychology  
Professor Marjorie Rhodes, Psychology

Tiffany Andersen *Psychology*  
Culture Adaptation and Influence on Psychological Adjustment among College Immigrant and International Students

Melody Chen *Psychology*,  
Kyle Grazier G'Sell *Psychology*  
and Catherine Tourangeau *Psychology*  
Understanding Conversations

Thomas Geib *Psychology and Sociology*  
Motivated Visual Bias of Tempting Romantic Alternatives

Jesse Glaze *Psychology*  
Examining the Relationship between Depression and Alcohol in Urban College Students

Kyle Kozman *Psychology*  
Can Appreciating Black Culture in the United States Alter Implicit Biases towards Barack Obama?

Nah Young Lee *Psychology*  
The Effect of High Psychopathy in Close Relationships of Roommates During an Academic Year

Kayley Squire *Psychology and Linguistics*  
Lieutenant Smith is a Bitch: Gender Ambiguity, Female Identity, and the Performance of Masculinity in a Coed Military