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  
9:30 AM – 11:30 AM

Neural Science: Aspects of Brain Development I (Room 101, Jurow Hall, Silver)  
Writing and Speaking in the Disciplines (Room 207, Silver)  
Global Environmental Issues (Room 300, Silver)  
Spanish and Latin American Literature and Culture (Room 301, Silver)  
Literature through the Ages I (Room 511, Silver)  
Issues in Linguistics (Room 711, Silver)  
Social Concerns in Health Care (Room 410, Silver)  
Contemporary Global Conflict (Room 500, Silver)  
Culture and Society I (Room 701, Silver)  
Gender Studies: A Global View (Room C-2, 25 West 4th St.)  
Interpersonal Relationships (Room 510, Silver)  
Global Issues Past and Present (Room 505, Silver)  
The Urban Divide (Room 907, Silver)  
Molecules of Living Systems (Room 667, Waverly)  
Mathematics and Modeling in Understanding the Physical World (Room 435, Waverly)

Afternoon Panels  
12:00 PM – 2:00 PM

Health and Developmental Issues (Room 907, Silver)  
Literature through the Ages II (Room 435, Waverly)  
Classical Literature (Room 506, Silver)  
Issues in Law, Justice and Government (Room 706, Silver)  
Genes, Growth, and Development (Room 500, Silver)  
Bacteria, Viruses, and Immunity (Room 208, Silver)  
New York City: Long-standing Challenges and Dynamic Change (Room 101 Jurow Hall, Silver)  
Access to the Arts: Displaying, Preserving, Performing, and Interpreting (Room 300, Silver)  
Neural Science: Aspects of Brain Development II (Room 937, Bobst Library)  
Psychology: Human Behavior and Perception (Room 702, Silver)  
Philosophical Thought (Room 510, Silver)  
The Politics and Economics of Education (Room 667, Waverly)  
The Economic Market: Productivity, Prices, and Profits (Room C-2, 25 West 4th St.)  
The International Workforce: Issues in Labor and Economics (Room C-14, 25 West 4th St.)  
Examining the Artist (Room 301, Silver)  
Culture and Society II (Room 505, Silver)  

Poster Sessions  
9:30 AM – 12:00 PM

Posters (Hemmerdinger Hall and Silverstein Lounge, Silver)
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*
Rocio 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 Gilsenan, 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*

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 4th 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 Matityahu *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 Negotiation 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 Artisanship 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  
Daniele Bendickson  
*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 Exprissivists 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 4th 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 4th 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
1st 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 Neurons
**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 Mn2+ 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 Nifidipine 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