

2012 Student Research Symposium Awards

LIBRARY AWARDS

Cassidy Berg, Physics, Undergraduate, *Possible Worlds and Parallel Universes*,
Mentor: Mark Wheeler

Nicholas Ynami, Asian Studies, Undergraduate, *Comparative Study of Soft Power Promotion in US, China and South Korea*, Mentor: Lei Guang

Breena Loraine, Musicology and Master of Business Administration-Management, *Music and Architectural Acoustics: Inspiration for Today's Composers?* Mentor: Eric Smigel

Marta Jankowska, Geography, Doctoral, *Climate Change and Human Health: Contextual and Compositional Effects of Climate, Livelihoods, and Population Change on Child Malnutrition in Mali, Africa*, Mentor: John Weeks

CHARLES WEI-HSUN FU FOUNDATION AWARD FOR PHILOSOPHY

Ethan Howe, Undergraduate, *Witness Consciousness: A Response to Chalmers' "Hard Problem" Drawing from Samkhya*, Mentor: Robert Francescotti

UNDERGRADUATE EXCELLENCE POSTER AWARDS

DaKandryia Peters, Biology, *Using microfluidics chambers (Mother Machines) to observe individual cell physiology*, Mentor: Anca Segall, Co presenters: John Waynelovich, Krystsina Kezikava

Kathleen Wallach, Biology, *Human cardiac progenitor cells modified with Pim-1 augment myocardial repair*, Mentor: Mark Sussman

Catherine Sumida, Psychology, *Strong and Poor Predictors of Odor Recognition Memory Performance: An Item Analysis of the California Odor Learning Test*. Mentor: Claire Murphy, Co presenters: Ariana Stickel, Karalani Cross

Daryl Howden, Biology, *Examining the in vivo activities of nucleases involved in DNA repair using Pulsed Field Gel Electrophoresis and mathematical modeling* Mentor: Anca Segall, Co Presenters: Kenny Sokolowski, Sean Young

Diana Cluff, Biology, *Effect of DNA-repair Inhibitors in Cancer Cell Lines*, Mentor: Anca Segall, Co presenters: Mamon Dey, Sukanya Patra, Leo Su

UNDERGRADUATE EXCELLENCE ORAL AWARDS

Ralf Schuster, Psychology, *The Differences Between Nostrils in Identifying Common Odors*
Mentor: Dr. Richard Graf

Erin Fletcher, Microbiology, *Role of a two-component regulatory system in Group B streptococcal colonization and immune activation in the female reproductive tract*,
Mentor: Kelly Doran

Genaro Hernandez, Biology, *Statins Confer Cardioprotection through Autophagy*,
Mentor: Roberta Gottlieb

Cassidy Berg, Physics, *Possible Worlds and Parallel Universes*, Mentor: Mark Wheeler

Abdifatah Ali, Psychology, *Examining the Effects of Interpersonal Discrimination on Job Seeking: A Moderated Mediation Model*, Mentor: Mark Ehrhart

Tiffany G. Harrison, Political Science, *State of Black San Diego*, Mentor: Tanis Starck

DEAN'S AWARDS

College of Arts and Letters:

Tonya Warren, Masters, *Addiction and Autonomy: A Qualitative Study of a Buddhist-Based Drug Rehabilitation Program in a Taiwanese Prison*, **International Research Award Winner**,
Mentor: Mark Wheeler

Tanisha Martin-Chiles, Undergraduate, *The Effects on Low-Income Students when EBT is Not Accepted as a Form of Payment at Universities*, Mentor: Kyra Greene

College of Business:

Tanya Hertz, Masters, *Ethics Training, Ethical Dilemmas, and Anxiety*,
Mentor: Gangaram Singh

John Andrew Galleta, Undergraduate, *Responses to Incivility in the Workplace: A Study of Retaliation, Forgiveness, Withdrawal and Reconciliation*, Mentor: Lynn Shore

College of Education:

Robert Pollack, Masters, *Language Education Programs: Knowledge & Perceived Effectiveness*
Mentor: Cristina Alfaro

Fiona Ho, Masters, *Latina Students and Voice in Public Schools*, Mentor: Carol Robinson-Zanartu, Co Presenters: Cynthia Arocha, Irene Chung, Miriam Pacheco

College of Engineering:

Carissa Williams, Masters, *Anaerobic Co-Digestion of Wastewater Sludge and Microalgae*
Mentor: Temesgen Garoma, Co Presenter: Don Nyugen

Daniel A. Nelson, Masters, Doctoral, *Lagrangian Coherent Structures in Turbulent Separated Flow*, Mentor: Gustaaf Jacobs

College of Health and Human Services:

Jacqueline De Vera, Masters, *Chemical Characterization of PM2.5 Air Pollution in Dhaka and Noakhali, Bangladesh*, **International Research Award Winner**, Mentor: Zohir Chowdhury

Billionrosannae Chhouk, Undergraduate, *Measuring the Levels of Pyrethroid Pesticides in Stream Sediments of San Diego County Using Triple Quadrupole Mass Spectrometry (LC/MS/MS)*, Mentor: Richard Gersberg

College of Professional Studies and Fine Arts:

Julia Moore, Masters, *Childfree: The Online Construction of an Identity without Children*,
Mentor: Patricia Geist-Martin

Breena Loraine, Masters, *Music and Architectural Acoustics: Inspiration for Today's
Composers?* Mentor: Eric Smigel

College of Sciences:

Allison Gregg, Masters, *Visualization of coral-associated bacterial respiration using biological
oxygen demand optode arrays*, **International Research Award Winner**,
Mentor: Forest Rohwer

Sarah Kienle, Masters, *The Better to Eat You With: The Comparative Anatomy and Evolution of
Feeding in Seals (Carnivora, Phocidae)* Mentor: Annalisa Berta

Imperial Valley College:

Philip Capin, Masters, *Motivating English Language Learners with Learning Disabilities Through
Bilingual, Culturally Relevant Books*, Mentor: Fernando Rodriguez-Valls

PROVOST AWARDS

Katy Patras, Biology, Doctoral, *Utilization of a novel immunostimulatory peptide for the control of
GBS vaginal colonization*, Mentor: Kelly Doran, Co presenter: Courtney Cavaco

Philip Lai, Language & Communicative Disorders, Doctoral, *Social Phenotypes of Children with
High Functioning Autism and Children with Williams Syndrome*, **International Research Award
Winner**, Mentor: Judy Reilly, Co presenters: Matt Ignacio, Janie Lai, Carolina Gonzalez,
Rowena Ng, Yvonne Searcy, Ursula Bellugi, Keahi Cornelius, Judi Fenson

Daniel Brown Psychology, Undergraduate, *Is There a Correlation Between Burden of Pathology
Score and Cognitive, Motor, and Functional Abilities in Huntington's Disease?*,
Mentor: Paul Gilbert

Ashley Warren, Biochemistry, Undergraduate, *A New Detection Method in Capillary
Electrophoresis Based on Liquid Core Optical Fiber*, Mentor: Khanh Kieu

Nai-Yu Wang, Biology, Masters, *Bacterial Surface Expressed Proteins Srr-1 and PilA Promote
Group B Streptococcus Colonization of the Female Reproductive Tract*, Mentor: Kelly Doran

Gabriel Feeley, Chemistry, Undergraduate, *Production of H₂ by the Catalytic Degradation of
NaBH₄ on Ag Nanoparticles*, Mentor: David Pullman, Co presenter: Mallory Hinks

Kali Markle, Speech Language Pathology, Undergraduate, *Use of Verbs of Motion to Mark
Movement in Space: A Study of English-Spanish Bilingual Children with Specific Language
Impairment*, Mentor: Vera Gutierrez-Clellan

Hanna Gelfand, Speech Language and Hearing, Doctoral, *Developmental changes in the
influence of acoustic & non-acoustic contributions to the perception of spoken language*,
Mentor: Julia Evans

Kelly Ross, Cell and Molecular Biology, Masters, *The combination of novel antibodies and bromodeoxyuridine to track neurogenesis in planarians*, Mentor: Ricardo Zayas, Co Presenters: Matthew Taylor, Amy Hubert

Enrique Gracian, Psychology, Masters, *Age-Related Changes in Spatial and Temporal Pattern Separation in Nondemented Older Adults*, Mentor: Paul Gilbert, Co Presenters: Heather M. Holden, Jerlyn C. Tolentino, Eva Pirogovsky, Callie Hoebel, Laura E. Shelley

Jon Sin, Cell and Molecular Biology, Doctoral, *The Impact of Coxsackievirus Infection on Cardiac Stem Cells and Postnatal Heart Development*, Mentor: Roberta Gottlieb

Samantha Engel, Language and Communication Disorders, Doctoral, *The Effect of an Integrative Preschool Model on Language Growth*, Mentor: Sonja Pruitt, Co Presenters: Sarah Stern, Traysa Sprankles, Amy Pace

PRESIDENT'S AWARDS

Archit Bhutani, Masters, *An Efficient Network Architecture for Mobile Social Networking Devices*, Mentor: Christopher Paolini

Nasim Vahidi, Masters, *Flexible Microelectrode System for Neural Probe* Mentor: Sam Kassegne, Co presenters: Pieter Van Niekerk, Tom McDowell, Scott Frame

Alex Zvoleff, Doctoral, *Linking Conservation and Development: A Global-scale Investigation of Demographics in High-value Conservation Areas*, Mentor: Li An

Ned Uncanin, Undergraduate, *Characterizing protective aspects of the endoplasmic reticulum stress response in cardiac progenitor cells*, Mentor: Christopher Glembotski

Pearl Quijada, Doctoral, *Preservation of Myocardial Structure is Enhanced by Pim-1 Engineering of Bone Marrow Cells*, Mentor: Mark Sussman

Ellese Carmona, Undergraduate, *The Role of Extracellular Matrix Proteins in Group B Streptococcal Penetration of Host Cell Barriers*, Mentor: Kelly Doran

Steven Quistad, Doctoral, *Induction of apoptosis in coral using human TNF: 500 million years of evolutionary conservation*, Mentor: Forest Rohwer

Brandon Kim, Doctoral, *Response of the blood brain barrier to meningeal pathogens leading to barrier disruption*, Kelly Doran

Ethan Howe, Undergraduate, *Witness Consciousness: A Response to Chalmers' "Hard Problem" Drawing from Samkhya*, Mentor: Robert Francescotti

Jayneil Kamdar, Doctoral, *Molecular machines: Bifunctional catalysis using strategically functionalized N-heterocyclic carbene complexes*, Mentor: Douglas Grotjahn