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SURP Awards - 2008

Congratulations to the following students for receiving a Summer Undergraduate Research Program (SURP) Fellowship in support of their faculty-mentored research projects and creative activities.

Student Name	Major(s)	Faculty Mentor(s)	Project Title
Vana Abedi	Biomedical Engineering	Professor Zhongping Chen	Develop an Ultrahigh Speed, High Resolution 3-D Fourier Domain OCT (FDOCT) System
Lakeshia Adeniyi	Criminology, Law & Society, Psychology & Social Behavior	Professor Sara Wakefield	The Affects of the Adoption and Safe Families Act on Incarcerated Mothers
Onyemaechi N. Ahanotu	Chemical Engineering	Professor Keith A. Woerpel	Investigation of Diffusion Control Situations of Nucleophilic Substitution to Tetrahydropyran
Luis Alberto	Anthropology, Chicano/Latino Studies	Professor Caesar D. Sereseres	Post 9/11 Views on Immigration: How Immigrants are Portrayed Through Images and Language in the Media Post- 9/11
Salar Aliassar	Civil Engineering	Professor Ayman S. Mosallam	Upgrade of Wood Members Using Advanced Polymer Composites
Tania S. Asef	Biological Sciences	Professor Lynn Carpenter	If Pines Primarily Associate with ECM, Can their Introduction to Angiosperm-AMF Ecosystems Negatively Impact AMF Populations?
Ogen J. Aslanian	Biological Sciences	Professor Elysia Davis	The Effects of Maternal Sensitivity on the Development of Behavioral Inhibition in Two-Year-Old Children
Marya Bangee	Sociology, English	Professor Shawn Rosenberg	Muslim Women in America: The Formation of Identity
Clifton Barnhart	International Studies, Chinese	Professor Kenneth Pomeranz	Mao & Washington: Revolutionaries and National Patriarchs
Rachel M. Bell	Dance	Professor Molly Lynch	Dance USA: Arts Advocacy and Organizational Structure
Timothy J. Bohr	Aerospace Engineering	Professor Rainer Doemer	Research and Development of a Flexible Converter for Digital Video Processing
Max E. Broad	Social Ecology	Professor David Feldman	A Comparison of the ICLEI and RISA Organizations in the Efficacy of Influencing Local Government Response to Climate Change
Patrick E. Burns	Drama	Professor Dennis Castellano	Summer at the Music Circus
Kevin A. Camaclang	Biological Sciences	Professor Carl W. Cotman	Explaining the "Dumb Jock" Mouse: Neurogenesis, Survival, and Incorporation in Mice Selectively Bred for High Running Behavior
Marinelle L. Camilon	Biological Sciences	Professor Gregory R. Adams	The Effects of Systemic IL-6 on Growth and Development
Jay L. Carlon	Dance	Professor Loretta Livingston	An Exploration of Various Dance Forms, Techniques, Atmospheres, and Environments in California
Abhishek Chadha	Biochemistry & Molecular Biology	Professor Christine M. Gall	Long-Term Postsynaptic Phosphorylation of CaMKII after Theta-Burst Stimulation

Allen Chau	Earth & Environmental Sciences	Professor Diego Rosso	Analysis of Carbon and Energy Footprints for Wastewater Biosolids Disposal Options
David Y. Cheng	Biological Sciences	Professor John H. Weiss	Zn ²⁺ Induced Changes in and Interaction with Dysfunctional Mitochondria Related Apoptotic Cell Death
Lori Chiu	Political Science	Professor Mark Petracca	Federal Phenomenon: A Comparison of Historical and Present Rhetoric Used in Justifications for Federal Government Bailout in Times of Economic Crises
Bryan T. Chow	Biological Sciences	Professor David Camerini	Expression and Purification of Novel Human β -Defensins and the Characterization of their Anti-HIV 1 and Antimicrobial Activity
Lawton Chung	Biological Sciences	Professor Naomi Morrisette	Structural Analysis of Tetrahymena thermophila Tubulin
Ymkje A. de Vries	Biological Sciences	Professor Susana Cohen-Cory	The Role of A β Aggregation in Synapse Loss
Gabriel Dilanji	Physics	Professor Thorsten Ritz	Investigation of a Possible Link Between Photochemical Magnetotaxis and Geotaxis in Fruit Flies, Drosophila melanogaster
Xiao Ding	Economics	Professor Hong-kai Zhao	Estimation of Energy Index Regression Model and Performance Forecasting
Ai-Quyen T. Duong	Biological Sciences	Professor Mahtab Jafari, Professor Sam Schriener	The Effect of Rhodiola rosea on SIRT Activity
Matthew M. Ero	Biological Sciences	Professor Michael R. Rose	Relationship Between Development Time and Hsp26 Expression in Drosophila melanogaster
Jamie A. Evora	Biomedical Engineering	Professor Elliot Botvinick	U-Fluid Flow Induction of Endothelial NO Production
Cristina Flores	Psychology & Social Behavior	Professor Jeanett Castellanos	Latina/o Educational Micro-Success: A Picture Story
Kimberly H. Fok	Biological Sciences	Professor Tallie Z. Baram	Characterization of Stress-Induced Expression of Corticotropin-Releasing Hormone (CRH) in the Postnatal Rat Limbic System
Ashley H. Fong	Biological Sciences	Professor Leslie F. Lock	Effects of Growth Factors on Mouse Embryonic Stem Cell Proliferation
Laura J. Fredrickson	Mathematics, Philosophy	Professor Vladimir A. Mandelshtam	Using Pseudoclassical Potentials to Study Dynamics and Thermodynamics of Quantum Liquids
Raymond Fung	Biomedical Engineering, Materials Science Engineering	Professor William C. Tang	Strain Sensitive Array for the Study of Muscle Surface Mechanics
Sarah M. Gahng	Biological Sciences	Professor Alan G. Barbour	Borrelia hermsii and Borrelia burgdorferi Responses to UV Irradiation
Sahil S. Gandhi	Electrical Engineering	Professor Phil Collins	Laminated Active Layer Organic Photovoltaic Devices
James C. Garritson	Music	Professor Kei Akagi, Professor Gerald Pinter	Thelonious Monk: Contributions of a Jazz Innovator
Paul R. Gebhart	Physics	Professor Asantha Cooray	Prediction of the Cosmological 21 cm Signal Through Simulation
Michael T. Ghijsen	Physics	Professor Gultekin Gulsen	The Effect of Pressure Differentials in Diffuse Optical Tomography (DOT)
Andrew C. Gibas	Physics	Professor Michael Dennin	Investigation of Foam Flow Through the Analysis of Bubble Raft Characteristics Between a Fixed and Oscillating Barrier in a Trough
Benjamin O. Gillig	Psychology & Social Behavior	Professor Ilona S. Yim	Emotion, Physiology, Gender and Memory: How Do They Interact, and with what Effects?
Karun Gogna	Developmental & Cell Biology	Professor Douglas J. Tobias	Molecular Dynamics Simulations of the Voltage-Sensing Domain in KvAP and Energetic Analysis of Ion Movement through the Omega Pore
Xiangshu Hai	Social Ecology	Professor William Zeller	Student-Faculty Relations: Perceptions of Informal Student-Faculty Relationship at the University of California, Irvine
Martyn T. Haynes	Chemistry	Professor Keith A. Woerpel	Development of a Catalytic Kinetic Resolution of Silyl Protected Hydroperoxides with Enantiopure Phosphines/Phosphine Oxides

Christian Herrera	Psychology	Professor Charles E. Wright, Professor Charlie F. Chubb	Proprioception Influences Attention
Kyle C. Horvath	Biochemistry & Molecular Biology	Professor Dana W. Aswad	Investigation of a Potential Relationship Between Isoaspartate Formation and Aggregation during in vitro Aging of the Neural Protein CRMP2
An-Chih Hsieh	Biological Sciences	Professor Matthew Brenner	3-D Optical Coherence Tomography Imaging of Lung and Pleural Cancer in an Animal Model
George L. Huang	Biomedical Engineering	Professor Noo Li Jeon	Model of Cancer Chemotaxis with Respect to Gel Density
Chun-Ching Huang	Biochemistry & Molecular Biology	Professor James Nowick	Using Fmoc-Abc2k-OH to Build Three-Dimensional Structures
Brian A. James	Materials Science Engineering	Professor Regina Ragan	Effect of Localized Charged Defects on Nanowire Sensore Sensitivity
Nicholas C. Juni	Biomedical Engineering	Professor Michael R. Rose	Effects of Increased Fat Storage on Cardiac Function in Drosophila melanogaster
Christina M. Kapucija	English	Professor Carol Burke, Professor Susan E. Davis	Croatian and Slovenian Folklore
Niki S. Katozi	Biological Sciences	Professor Mahtab Jafari, Professor Sam Schriener	The Effect of Rhodiola rosea on Mitochondrial Function and Antioxidant Defenses in Drosophila melanogaster
Aaron K. King	Biological Sciences	Professor Adam Martiny	Oil from Algae
Maximilian Klement	Chemical Engineering	Professor Andrew Putnam	Characterization of the Interaction of 3-D Capillary Morphogenesis with Tumor Spheres in a Fibrin Matrix Gel
Shannon I. Kurashige	Dance, Biology	Professor Molly Lynch	The Influence of Personal History on Artistic Creation and its Transmission
Belinda H. Lau	Music	Professor Darryl Taylor	The Development of Artistry Through Exposure to Musicality in Diverse Cultures: Spanish and Latin American Vocal Repertoire
Bryan Q. Le	Biological Sciences	Professor Shaul Mukamel	RNA Conformational Dynamics: Computing Folding Trajectories Using Molecular Dynamics Simulations
Paul Y. Lee	Physics	Professor Michael Dennin	Analysis of the Compression and Elongation of Two-Dimensional Bubble Rafts
Cameron A. Lewis	Information & Computer Science	Professor Tatsuya Suda, Professor Ariffin Yahaya	The 'Winning Streak' Reputation System
Lauren F. Lewis	Computer Science	Professor Rebecca W. Black, Professor Bill Tomlinson	Fanfiction University
Debbie D. Liang	Biological Sciences	Professor Seong Sil Chang, Professor Clare C. Constantine, Professor Hoda Anton-Culver, Professor Hoda Anton-Culver, Professor Hoda Anton-Culver	Use of Nail DNA is Feasible for Genetic Epidemiologic Studies: Feasibility Test of Nail DNA Compared to Blood DNA by for Sequencing of the Hypervariable D-loop Region of mtDNA
Melanie I. Lim	Political Science	Professor Gary Richardson	The Influence of Strict Settlement on Jane Austen Novels
Justin Lin	Biomedical Engineering, Mechanical Engineering	Professor Elliot Botvinick	The Design and Construction of a Microscope Cage Incubator
Sandy Liu	Economics	Professor Gary Richardson	Could the Federal Reserve Have Prevented the Great Depression?
Leslie S. Liu	Informatics	Professor Gillian R. Hayes	Evaluation of Personal Health Records
Bonnie L. Lo	Biological Sciences, Art History	Professor David Camerini	Expression and Purification of Novel Human β -Defensins and Test for Anti-HIV-1 and Antibacterial Activities
Bryan G. Lopez	Biological Sciences	Professor Richard T. Robertson	Metastasis of B16 Melanoma Cells in a Mouse Model
Andrea R. Marcantonio	Ecology & Evolutionary Biology	Professor Ann K. Sakai, Professor Stephen G. Weller	Changes in Fruit Traits after Two Generations of Artificial Selection for Male and Female Biomass in Schiedea salicaria

Gabriela Marcu	Informatics, Psychology & Social Behavior	Professor Gillian R. Hayes	Cultural Differences in Reactions to the Use of Wearable Recording Technology for Aiding People with Memory Impairments
Andreea Marina	Biological Sciences	Professor Thomas J. Carew	Regulation of MAPK Distribution in Aplysia CNS by Different Patterns of 5-HT Applications
Brent C. Martin	Biological Sciences	Professor Aimee L. Edinger	Role of Akt in Growth Factor Withdrawal-Induced Cell Death
Courtney McConnell	Mechanical Engineering	Professor Farghalli Mohamed	Creep Behavior of Nanocrystalline Ni
Brian P. McGrew	Chemistry, Biology	Professor Elizabeth R. Jarvo	Development of Practical Syntheses of Allylic Boronic Esters
Julie Ann M. Minaai	Dance	Professor Loretta Livingston	A Study of Movement Analysis, Artistry and Choreographic Process in Preparation for a Professional Career in Dance
Wael Mismar	Biomedical Engineering	Professor Noo Li Jeon	Microfluidic-Based Substrate Patterning for Axonal Growth
Nima Nassiri	Biomedical Engineering	Professor Ranjan Gupta	Expression of Schwann Cell Integrin Expression after Peripheral Nerve Injury
Sean M. Nazari	Biological Sciences	Professor Anshu Agrawal	The Effects of Hormones and Cytokines on MCF-7 Breast Cancer Cell Lines
Bryan D. Ngo	Biological Sciences, Bioengineering	Professor Wen-Hwa Lee	Hec 1 and Nuf2 Interaction and Proper Localization is Essential for Microtubule Formation
Victoria Ngo	Biological Sciences	Professor Maik Sander	Live Imaging of Pancreatic Explants
Elaine Nguyen	Biological Sciences	Professor Bernard Choi	Rose Bengal Photo-Dynamic Therapy: A Non-Invasive Means of Photochemical Induction of a Localized Ischemic Stroke
William H. Nguyen	Chemistry, Biology	Professor Athan J. Shaka	Scandium Triflate Catalyzed Acetylation of Sugars for the Better Elucidation of Molecular Structures Through NMR Spectroscopy
Tri H. Nguyen	Biomedical Engineering	Professor William C. Tang	Active Micromixer for Microfluidic Systems Using Lead-Zirconate-Titanate (PZT)-Create Streaming to Push Viruses Attach to Beads
Paul Nguyenfa	Biological Sciences	Professor Craig Walsh	Co-Localization of FADD and Atg5 in Autophagy
Nazila Norouzi-Bazaz	Biomedical Engineering	Professor Elliot Botvinick	Microrheological Measurements in Engineered Protein Hydrogels
Brenna Norris	Psychology	Professor Charlie F. Chubb	Variance in Sensitivity Levels in Hearing Through the Classification of "Tweeters"
Jared P. Novak	Psychology & Social Behavior	Professor Wendy Goldberg	Associations Between Interparental Conflict and Adolescent Peer Relationships, and Adolescent Romantic Relationships
Jonathan T. Oishi	Biological Sciences	Professor Michael R. Rose	Selection for Early-Life Fecundity May Affect the Evolution of the Hsp26 Gene in Drosophila melanogaster
Tricia J. Olaes	Sociology, Psychology & Social Behavior	Professor Caesar D. Sereseres	University Public Health Policy
Yu Ong	Biological Sciences	Professor Yi-hong Zhou	Angiogenic Levels in Glioma Xenografts from Modified Expression of PAX6 and Putative Anti-Angiogenic Gene EFEMP1
Jenna N. Otter	Dance, Biological Sciences	Professor Lisa Naugle	Gaga and Improvisation: A Study of Innovation in Contemporary Dance
Jeremy L. Ovadia	Mathematics	Professor Kieron Burke	Expanding a Semiclassical Approach to Density Functional Theory of Non-Interacting Atoms
Rachel Pace	Dance	Professor Molly Lynch	Backhaus Dance Intensive: The Impact on my Choreography
Joshua Park	Chemistry	Professor Seong Sil Chang, Professor Clare C. Constantine, Professor Hoda Anton-Culver	Use of Nail DNA in Epidemiology: Assessing DNA Copy Number and Strand Integrity as Biomarkers
Alyssa B. Penacho	Ecology & Evolutionary Biology	Professor Lynn Carpenter	Ferns and Non-Native Grasses Invade Abandoned Overgrazed Pasture in the Tropics: Do They Help or Hinder Forest Regeneration?

Maria Petrosyan	Computer Engineering, Piano Performance	Professor Benjamin Villac	Autonomous Flight Control System for CubeSAT Spacecraft
Jessica Pharar	Biological Sciences	Professor Petra Wilder-Smith	An Optical Approach to the Periodontal Tissue Implications of Diabetes Mellitus
Amanda M. Prince-Lubawy	Dance	Professor Loretta Livingston	Dance Theatre
Erin E. Pritchard	Philosophy, Environmental Engineering	Professor Martin Schwab	An Existentialist Look at Environmental Ethics
Timothy Quang	Biomedical Engineering	Professor Albert Cerussi, Professor Bruce Tromberg	In vivo Quantification of Vascular Reactivity in Muscle Using Diffuse Optical Spectroscopic Imaging
Jessica D. Rabanzo-Flores	Dance, Sociology	Professor Susan L. Menaker	Bates Dance Festival: Exploration of Modern Techniques to Enhance Performance and Choreography
Ardeshir Rahman	Biological Sciences	Professor Jorge Busciglio	Investigation of Neuronal Abnormalities Due to Dosage Alterations of Intersectin as a Result of Trisomy on Chromosome 21 in Down's Neurons
Mohsin A. Rajani	Biological Sciences	Professor Thomas J. Carew	A Cysteine Rich Neurotrophic Factor (CRNF) in Aplysia californica: Cloning and Characterization
Rupal Ramani	Biological Sciences	Professor Virginia E. Kimonis, Professor Jouni Vesa	Analysis of Gene Expression Profiles in Inclusion Body Myopathy, Associated with Paget's Disease of the Bone and Frontotemporal Dementia
Stephen D. Ramgren	Chemistry	Professor Suzanne A. Blum	Investigation of the Role of Gold in a Bimetallic Catalytic System for the Highly Regioselective Synthesis of Olefins
Ramyadeepika Rao	Biological Sciences	Professor Hartmut Luecke	Solving the Structure of Alpha-19 Giardin Using X-Ray Crystallography
Blanca E. Rincon	Sociology, Chicano/Latino Studies	Professor Jeanett Castellanos	Latina Sororities: Their Role and Impact on Latina Educational Journeys
Samer Roumani	Biological Sciences	Professor Shahram Lotfipour, Professor Michael Menchine	Cross-Border Utilization of Health Services
Sara (Marzieh) Sameni	Biomedical Engineering	Professor Fan-Gang Zeng	Melody Recognition in AN Patient
Yas Sanaiha	Biological Sciences	Professor Christine M. Gall	Investigation of Integrin Signaling during Long Term Synaptic Potentiation in the Hippocampus
Dongjoon Shin	Psychology	Professor Salvatore Maddi	Hardiness and its Relation to Self-Esteem and Narcissism
Amarinder Singh	Biological Sciences	Professor Frank L. Meyskens	MITF Positive and MITF Negative Cells Show a Differential Response to Drug Treatment
Jessica L. Smith	English	Professor Victoria Silver	Testing the Net
Batjargal Solongo	Chemistry	Professor Athan J. Shaka	Synthesis of Several Anhydrides and Acetylation of Sugar in Ionic Liquids for Better Elucidation of Molecular Structure Through NMR Spectroscopy
Kelly Sry	Biomedical Engineering	Professor Anthony J. Durkin	Quantitative Diffuse Optical Spectroscopy of Cutaneous Melanoma
Adela Stroescu	Biological Sciences	Professor Michael R. Rose	Effects of Increased Fat Content on Drosophila melanogaster Heart Function
Chelsea K. Sugimoto	Psychology & Social Behavior, Criminology, Law, & Society	Professor Lindsey E. Richland	Gender Differences in the Test Effect
Patrick K. Sung	English	Professor Jonathan Alexander	Turning Japanese? Cultural Reimaginings in Western Boys' Love Fandom
Anh-Minh Ta	Biological Sciences	Professor Steve D. Allison	Microbial Decomposers and their Competitors
Roy B. Taggoug	Psychology & Social Behavior, Criminology, Law, & Society	Professor Roxane C. Silver, Professor Eric Knowles	Cross-Cultural Use of the Internet: Utilizing Online Tools for Psychological Self-Benefit
Christina R. Tajalli	Psychology	Professor Caesar D. Sereseres	From Scars to Self-Sufficiency: The Plight of Child Soldiers
Ahramahzd V. Tatavoosian	Biomedical Engineering	Professor Mohsen Davoudi	COPD Prevalence in the Republic of Armenia

Richard W. Taylor	Biomedical Engineering	Professor Steven C. George	Determining the Optimal Sampling Interval of the Exhaled Nitric Oxide Profile
Sevan Torossian	Not On This List, Public Health	Professor Michael Demetriou	Regulation of CNS Autoimmunity Through β 1,6GlcNAc Branched N-Glycan Alterations by $1\alpha,25$ -Dihydroxyvitamin D3
Farah Toullier	Psychology	Professor Barbara Sarnecka, Professor Emily Slusser	What Features Do Children Use when Matching?
Tracy T. Tran	Literary Journalism	Professor George D. Meier	Cried Over Today, Forgotten Tomorrow
Tiffany J. Tu	Biochemistry & Molecular Biology	Professor Sheryl Tsai	Deconstructing the Lovastatin Polyketide Synthase
Kevin C. Urmaza	Biological Sciences	Professor Bogi Andersen	Analysis of Grainyhead-like Epithelial Transactivator 1 (GET-1) in Hydra
Eric J. Vallee	English	Professor Rodrigo Lazo	Dialectic of Conquest: Literature as a Justification for the Subversion of Indigenous Populations during the Conquest of America in Relation to Plato's Dialectic Model of Writing
Chau Y. Van	Biological Sciences	Professor Daniele Piomelli	The Role of Palmitoylethanolamide in Inflammation
Leyna P. Vo	Psychology	Professor Jeanett Castellanos	Vietnamese Life Struggles, Support Systems and Coping Mechanisms in the Urban: A Study on Attitudes toward Psychotherapy and Utilization Patterns
Aditi Wahi	Psychology & Social Behavior, Literary Journalism	Professor Jodi A. Quas	Physiological Memory Study
Kevin Y. Wang	History, Educational Studies	Professor David Igler	The Gold Rush as the First Instance of Globalization
Montrisha M. Williams	Political Science	Professor Thurston Domina, Professor Matthew Ormond	A Step Ahead for At Risk Students? Measuring the Effects of Middle College High School
Howard W. Wong	Computer Engineering, Electrical Engineering	Professor Jean-Luc Gaudiot	Parallelization of Telemedicine Benchmark for the Xbox 360 Architecture
Steven K. Wong	Biological Sciences	Professor Sheryl Tsai	Determination of the Structure and Function of Zhul, an ARO/CYC Domain in the Aromatic R1128 Polyketide Synthase
Nicholas Woo	Political Science	Professor Daniel Brunstetter	Just War Theory and U.S. Military Recruitment Policies
Robert Woo	Computer Science & Engineering	Professor Benjamin Villac, Professor Ian G. Harris	Design of an Efficient Communication Protocol and a Telemetry Handling System for Earth-Orbiting Spacecraft
Jessica Wung	Dance, Social Ecology	Professor Loretta Livingston	Approaching the Rumba from a Choreographic and Kinesthetic Perspective
Steven E. Yampolsky	Chemistry	Professor Vartkess A. Apkarian	Ultrafast Time-Resolved Surface Enhanced CARS Measurements of Single Molecules
Meng Yang	Economics, International Study	Professor Caesar D. Sereseres	Academic Dishonesty at UCI
Joanne Yao	Literary Journalism, International Studies	Professor Carol Burke	A Kick from the Torchbearer: Covering the Beijing 2008 Olympics
Joshua K. Yee	Materials Science Engineering, Mechanical Engineering	Professor Farghalli Mohamed	Investigation of Boundary Sliding during Deformation of Nanocrystalline Metals
Allison J. Zemek	Biomedical Engineering	Professor Zoran Nenadic	Single-Trial Detection of Error-Related EEG Response to Images with Incongruent Captions

Number of Proposals Submitted = 156
Number of Fellowships Awarded = 133
Number of Honorary Fellowships = 10

Total Funds Requested = \$454,250
Total Funds Awarded = \$246,150

For more information, please contact:

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