

SURP Grant Recipients

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SURP Awards - 2006

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
Katty V. Afshar	Biological Sciences	Professor Arthur E. Weis	Changes in Flowering Phenology After One Generation of Assortative Mating
Nour M. Al-Hashimi	Political Science	Professor Richard Matthew	Iraqi Kurdistan: Female Genital Mutilation and why it Prevails
Laura R. Antonie	Biological Sciences	Professor Lynn Carpenter	Do Pioneer Trees Help Restore Valuable Hardwoods to Poor Farmland in the Tropics?
Jacob A. Arnold	Physics, Mathematics	Professor Elizabeth J. Barton	Analysis of Star formation Bursts in Closely Interacting Galaxy Pairs
Kimberly S. Balazs	Biological Sciences	Professor Oladele A. Ogunseitan	The Fate of Anthropogenic Caffeine in Ocean Water and Freshwater: Implications for Cnidarian Bleaching and Wastewater Treatment
Kristin Beardsley	Biological Sciences	Professor Haoping Liu	Inhibiting the Protein Cph1 Makes Candida albicans Less Pathogenic
Rachel M. Bell	Dance, Literary Journalism (Currently Declaring Spring 06)	Professor Robert W. Boross	Contemporary Jazz Dance Across Europe: An Investigation of Historical and Geographical Influence
Shaheena R. Bielman	Biological Sciences	Professor Elysia P. Davis	The Effects of Betamethasone on Infant Cortisol Response at Six Months of Age
Rita A. Blaik	Materials Science	Professor Farghalli A. Mohamed	Investigation of the Microstructure after

	Engineering		Creep Deformation of Metals at Very Low Stresses
Lauren H. Bloom	Women's Studies	Professor Inderpal Grewal	A project to examine the effects of the 1998 Violence Against Women Act. In particular, the Grants to Reduce Violence Against Women on College Campuses
Daniel R. Blyskal	Mechanical Engineering, Materials Science Minor	Professor Ayman Mosallam	Experimental And Analytical Investigations On The Viscoelastic Behavior Of Advanced Composite Materials
Meghan M. Brown	Drama	Professor Donald Hill	London vs. Irvine: Artistic Identity, Theatre, and Culture
Cynthia Bui	Biological Sciences, Chemistry	Professor Sheryl Tsai	Towards Structural Work on a Promiscuous Glycosyltransferase: X-ray Crystallography of DesVII
Lauren M. Burgeno	Chemistry	Professor Daniele Piomelli	Determination of the Role of Endocannabinoid Signaling in the Anxiety Induced by Social Isolation
Lisa C. Butler	Physics	Professor Roger D. McWilliams	Tissue Discrimination via Laser Induced Fluorescence
Nicholas A. Castello	Biological Sciences	Professor Carl W. Cotman	Effect of Exercise on Patterns of BDNF Protein Induction and Cognitive Function
Kelvin H. Cheung	Materials Science Engineering, Mechanical Engineering	Professor Farghalli A. Mohamed	Cavitation and Low Temperature Mechanical Properties of Nanocrystalline Ni
Andrew W. Choung	Biomedical Engineering	Professor Vasam Venugopalan	Impact of Compartmentalization and Location of Biological Absorbers on Optical Properties
Andrew Correa	Information & Computer Science	Professor William M. Tomlinson	The EcoRaft Project - Creating Multiple Exhibits Using Flash
Bonnie A. Crotzer	Dance, Italian Studies	Professor Jennifer Fisher	Perspectives on Contemporary and Traditional Dance in Italy

			and Austria
Belinda Dao	Biological Sciences	Professor Brian J. Wong	Effect of Cigarette Smoke Condensate on Fibroblast Cell Viability and Induced Apoptosis in Organotypic Skin Models
Valerie D. Dao	Political Science, Sociology	Professor Mark P. Petracca	The Rehnquist Court: Democratic Implications of a Counter-Majoritarian Institution
Judy De La O	Political Science	Professor Caesar D. Sereseres	The California Community College System: Patterns in Latino Transfer Rates to the University of California
Leah L. Dickenson	Psychology & Social Behavior, Psychology (Cognitive Science)	Professor Sally S. Dickerson	Effects of Socially Evaluative Audience Size on Physiological and Psychological Stress Reactivity
Linh N. Dinh	Materials Science Engineering, Chemical Engineering	Professor Farghalli A. Mohamed	Work Hardening and Low Temperature Deformation of Nanocrystalline Ni
Joyce E. Dong	Classical Civilization	Professor M. Cristina Kenney , Professor Saurabh Luthra	Investigation of Caspase Pathways Activation in Human Microvascular Endothelial Cells After Treatment with 7-Keto-Cholesterol
Erick Russell Elchico	Biomedical Engineering	Professor Ralph V. Clayman , Professor Leslie A. Deane	Comparative Study of Lymphatic Seal Strength Between Ligasure V, Gyrus Trisector, Harmonic Scalpel and EnSeal in Porcine Thoracic Duct
Jeffrey S. Felgner	Biological Sciences	Professor Mahtab Jafari	Screening Potential Antiaging Drugs in Drosophila Using DNA Microarrays
Owen P. Finch	Electrical Engineering	Professor Henry P. Lee	Acousto-Optic Spectrometer Automation
Ann K. Fischer	Dance, Political Science Major	Professor Israel Gabriel	Exploration of the Development and Modernization of Dance in Austria's Famous Mozart Festival: Salzburg International Ballet

			Summer Intensive
Christopher M. Frantz	Mechanical Engineering, Minor in Materials Science and Engineering	Professor Derek Dunn-Rankin	Implementing and Testing the Efficiency of Hydrogen as a Fuel Source in a Miniature RC Engine.
Mohamed S. Galal	Chemical Engineering, Computer Engineering	Professor Tadashi Nakano , Professor Tatsuya Suda	Molecular Communication: Modeling and Simulations
Lakshmi L. Ganesan	Biological Sciences	Professor Naomi S. Morrissette	Oryzalin Resistance in <i>Toxoplasma gondii</i> : The Effects of Single and Double Point Mutations to Parasite alpha I -tubulin
Evan M. Gorski	Mechanical Engineering, Minor: Material Science	Professor Derek Dunn-Rankin	Effect of Pre-Combustion Water Injection on Modern Combustion Engines
Sean D. Graham	History	Professor Vicki L. Ruiz	The Industrial Workers of the World: The Dynamics of an Anti-Political Ideology
Phillip S. Haralson	Electrical Engineering	Professor Philip Collins	Automating the Interface with Nano-Electronics
Nicholas J. Hendricks	Dance	Professor Lisa Naugle	Modern Dance Technique and Its History
Ismael D. Herrera	Chicano/Latino Studies, Sociology	Professor Gilbert G. Gonzalez	The Inability of Rural Public High Schools to Prepare Students for Higher Education: A Case Study of Firebaugh High School
Jon B. Heston	Biological Sciences, Anthropology	Professor James D. Belluzzi	The Role of Serotonin 5-HT _{2A} Receptors in Nicotine Self-administration in the Rat
Vivi C. Hoang	Criminology, Law & Society, English	Professor James D. Vigil	Hurry Up and Buy
Sally Hosn	Political Science, Economics	Professor Lina Kreidie	The Lebanese Opposition Movement
David W. Hubin	Computer Science	Professor Natasa Przulj	Multi-Metric Classification of Biological Networks
Evan G. Johnson	Biological Sciences, Chemistry	Professor Zhibin Guan	Biomimetic Modular Polymers for Advanced Biomaterials

Marlen Kanagui	Psychology, Sociology	Professor Jeanett Castellanos	The Validity of the Beck Depression Inventory, The Center for Epidemiological Studies-Depression Scale, and the Self-report Depression Scale for Latina/OS
Ravdeep Kaur	Biological Sciences	Professor Sheryl Tsai	p53R2 Structure and Function
Jennifer R. Kenz	Biological Sciences	Professor Grant R. MacGregor	Investigating How FNDC3A Functions in Mammalian Reproduction by Analysis of FNDC3A-interacting Proteins
Rola Khedraki	Biological Sciences	Professor Fan-Gang Zeng	Effect of Companding Borne Temporal Changes on Consonant Perception
Behnood Khodayari	Biological Sciences	Professor Mahtab Jafari	Evaluating Metabolic Rate as a Rule of Investigation for Anti-Aging Pharmacology
Gary Kim	Biological Sciences	Professor Aimee L. Edinger	Role of Nedd4 in Growth Factor Withdrawal-induced Cell Death
Kyle L. Kimmel	Chemistry	Professor Keith A. Woerpel	Studies Toward a Kinetic Resolution Utilizing an Asymmetric [3+2] Annulation of A-Siloxy Allylsilanes
Allison N. Knight	Dance, Drama	Professor Myrona L. Delaney	European Music and American Musical Theater: Bridging the Past and Present
Calvin Kong	Biological Sciences	Professor Gregory A. Weiss	Bordetella Phage Mutagenesis as a Model System for Understanding HIV Drug Resistance
Mukul Kumar	History	Professor Vinayak Chaturvedi	Nationalism, Modernity and Public Space in Post-Colonial Delhi: A Social History of the 1962 Master Plan
Ryan A. Langan	Biomedical Engineering	Professor William C. Tang, Professor James Fallon	Designing and Constructing a Pneumatic Artificial Muscle Actuator for an Improved Upper Limb Prosthesis
Brett M. Ledeker	Materials	Professor Vasam	Development of a Novel

	Science Engineering	Venugopalan	Monte Carlo Program to Simulate Light Propagation in Biological Tissues
Kevin Li	History	Professor Charles Wheeler	Hegemony, Subversion, and Counter-Subversion: The Construction and Transformation of Ho Chi Minh as a Historical Figure in Vietnam
David B. Lim	Biological Sciences	Professor Michael Rose	Project Cryofly: Selection for Improved Cryopreservation of Drosophila
Hannah S. Lim	History, International Studies	Professor Eugene Y. Park	The Virtues and Dangers of Korean Women in Politics: A Comparative Study of Lady Hyegyong and Pak Kun-hye
Dana D. Ling	Biological Sciences	Professor Frances M. Leslie	Dopaminergic Changes as a Mechanism for Nicotine as a
Victor A. Lopez	Mathematics	Professor Nathan D. Wong	Prevalence, Treatment, Control, and Preventable Coronary Heart Disease Events in U.S. Adults with Hypertension NHANES 2001-2002 and 2003-2004
Trinh M. Luu	Comparative Literature, Asian American Studies	Professor Charles Wheeler	Exploring Vietnamese-Cuban Diplomatic Relations and Their Reciprocal Representations in Literature and Visual Images
Paul S. Mac Alpine	Information & Computer Science	Professor William M. Tomlinson	EcoRaft Flash Port Project
Angelika W. Maciol	Biological Sciences	Professor Melanie Cocco	Characterization of Nogo Receptor Protein Binding Sites and the Role of Glycosylation in the Receptor-Ligand Interactions
Katherine J. Mackenzie	Chemistry, Biology	Professor Athan J. Shaka	The Development of an Alternative Synthesis of Trichloroacetyl Isocyanate
Carlos Maldonado	Psychology & Social Behavior,	Professor Susan T. Charles	Emotional Expressiveness: A Multi-Ethnic Study

	Criminology, Law, and Society		
Colin J. Mann	Physics	Professor Philip Collins	Identifying the Detection Mechanism in Carbon Nanotube Field Effect Transistor Chemical Sensors
Renee N. Manorat	Political Science	Professor Mark P. Petracca	Asian American Women in Politics
Nathaniel S. Marrocco	Information & Computer Science	Professor Magda El Zarki	Wireless Personal Area Network Coordination Framework
Erin M. Milner	Environmental Analysis & Design	Professor Rufus Edwards	The Impact of VOCs From Improved Biomass Cook Stoves in Michoacán, Mexico
Adam A. Moheban	Biological Sciences	Professor Shahram Lotfipour	A Needs Assessment Questionnaire of Driving Fitness in Older Adults Presenting to the Emergency Department
Roger S. Moon	Biological Sciences	Professor Edward K. Wong	The KCS Project
Ashley S. Murray	Dance	Professor Loretta Livingston	Alvin Ailey Summer Dance Intensive
Kevin D. Musser	Biological Sciences	Professor Arthur E. Weis	Changes in Flowering Phenology After One Generation of Assortative Mating
Mahva Naghipor	Biological Sciences	Professor Daniele Piomelli, Professor Jin Fu	Effects on OEA in FAAH Gene Deficient Mice
Linda N. Nguyen	Biomedical Engineering	Professor Kenneth J. Shea	Synthesis of Poly (trimethylsilylmethylidene)
Kim N. Nguyen	Biomedical Engineering	Professor Larry E. Vickery	Determination of the Allosteric Interaction Between HscA N-terminal Nucleotide-binding Domain and C-terminal Substrate-binding Domain
Thang X. Nguyen	Chemistry	Professor Fillmore Freeman	Cycloadditions, Insertion Reactions, and Rearrangements of Sulfinyl Carbenes: A Theoretical Study
Emily T. Nguyen	Biological Sciences	Professor Hartmut Luecke	Crystallization of Alpha-11 Giardin and Determination of the

			Protein Structure for Further Understanding of the Cytoskeleton of Giardia lamblia and Drug Discovery for Giardiasis
Diana T. Nguyen	Biological Sciences	Professor Edwin S. Monuki	Bmp and Fgf Interaction in Choroid Plexus Development
Christina L. Nizar	Sociology, Political Science	Professor Judy Stepan-Norris	Are Population Ecology Models Truly Representing Organizations? A look at the Labor Movement.
Jenny Q. Ouyang	Biological Sciences, French	Professor Nancy T. Burley	Sex Differences in Begging Calls of Young Zebra Finches
Jen-Hao Pan	Biomedical Engineering	Professor Abraham P. Lee	Real Time Monitoring of RNAi Assays
Sarah C. Pauly	Political Science, Anthropology	Professor Caesar D. Sereseres	Effects of the Evolving Insurgency on Iraqi Democratization
Yekaterina S. Pavlova	Mathematics, Aerospace Engineering	Professor John Lowengrub	Turing Instability on Irregular Domains.
Charlotte A. Perebinosoff	Dance	Professor Jennifer Fisher	Artistic Collaboration in Dance: Past, Present, and Future
Raul Perez	Sociology	Professor William M. Maurer	Research on Intentional Communities: Past and Present
Amie H. Pham	Not On This List, Applied Ecology	Professor Betty H. Olson	Producing Biohydrogen via the Anaerobic Digestion Process: Is It Feasible?
Van Q. Pham	Biological Sciences	Professor Rainer K. Brachmann	DNA Binding Specificity of the Transcription Factor p63
Trang K. Pham	Developmental & Cell Biology	Professor Rainer K. Brachmann	A Functional Yeast Assay for Determining DNA Binding Specificity of Beta-catenin-LEF/TCF Complexes
Long N. Phan	Chemistry	Professor James S. Nowick	Study of the Unnatural Amino Acid Hao
Quyên T. Phung	Chemistry	Professor Fillmore Freeman	A Theoretical Study of the Relative Energies of Conformers and the Conformational Interconversion of Cyclic

			Organic Polyoxides
Jason M. Rogers	Biological Sciences	Professor Sanjay Dhar , Professor Gregory Evans	Tissue Engineering Scaffolds for Nerve Regeneration Manufactured by Ink-jet Technology
Vanessa M. Scarfone	Biochemistry & Molecular Biology	Professor David A. Fruman	KLF4 Blocks Pre-B Cell Transformation
Sahar Semnani	Biological Sciences	Professor Mahtab Jafari	Curcumin as an Anti-aging Botanical
Anju Sharma	Computer Science	Professor William M. Tomlinson	EcoRaft Project - Creating Multiple Exhibits Using Flash
Allison I. Shim	Psychology	Professor Bruce G. Berg , Professor Ramesh Srinivasan	EEG Recordings Using Amplitude Modulated Tone, Noise, and Speech for Temporal Modulation Transfer Functions
Ahad A. Shiraz	Biological Sciences	Professor Christine Gall , Professor Ching-Yi Lin	Study the Effects of Global Ischemic Insult on Calpain-mediated Spectrin Breakdown
Christopher M. Shymansky	Chemical Engineering, Chemistry	Professor Rachel W. Martin	Expression and Comparison of Human Wildtype and Mutant ?D-crystallin
Allyson K. Sia	Chemistry	Professor Alan F. Heyduk	Fundamental Chemistry of Solar Energy Conversion: Small Molecule Activation at Ni, Pd, and Pt Metal Complexes.
Kevin M. Smith	Anthropology	Professor William M. Maurer	Research in Intentional Communities: Past and Present
Charles M. Smythe	Physics, Drama	Professor Elizabeth J. Barton	Baby Galaxies: How to Find Them
Diego Solares	International Studies	Professor Leo R. Chávez , Professor Oladele A. Ogunseitan	Social and Economic Inequality and its Perpetuation of Stigma of Leprosy in Brazil as the Primary Contributions to Brazil's Repeated Failure to Meet Goals of Elimination
Kulginder S. Sran	Biological Sciences	Professor Petra Wilder-Smith	Three Dimensional Optical Coherence Tomography and Optical Doppler Tomography For

			The Non-Invasive In Vivo Diagnosis Of Oral Malignancy
Heather B. Stalker	Genetics	Professor Kyoko Yokomori	The Role of Condensin II in DNA Repair
Jeannine Stepanian	Political Science, Anthropology	Professor Shawn Rosenberg	Political Socialization of Immigrants
Brian H. Tavakoli	Biological Sciences	Professor Mahtab Jafari	Drosophila Melanogaster, A Model System for High-Throughput Screening of Drug-Induced Central Nervous System Changes
Matthew Teeter	Information & Computer Science	Professor Chris Dobrian	Developing an Open Software System for Wireless Remote Control of Musical Instruments
Michael A. Thompson	Chemistry	Professor Reginald M. Penner	Fabrication of Single Nanowire Devices by Lithographic Electrochemical Step Edge Decoration
Heath C. Timmons	Chemistry	Professor Scott D. Rychnovsky	Synthesis and Study of a Substituted Phenyl Thioether Library Toward the Improvement of Tertiary Organolithium Synthetic Methods
Megan J. Trotter	Psychology, Sociology	Professor Johanna Shapiro	Creative Identity Formation in Kenyan Orphans
Taylor A. Ullery	Dance	Professor Donald McKayle	Dance in Malawi: An Exploration of Teaching, Choreography, and Performance in Kogoya Village
Enny Van	Political Science, Women's Studies (minor)	Professor Mark P. Petracca	The Branding of Women: An Investigatory Study of Regional Image Demands on Campaigning and Political Advertisements within the Context of Female Candidateship
Anita P. Vora	Biological Sciences, Philosophy	Professor Thorsten Ritz	Magnetic Field Effects on Phenotypes in Arabidopsis Thaliana
Constance S. Wang	Comparative Literature,	Professor Jane O. Newman	Periods of Transition: Literature as a Possible

	East Asian Language and Literature		Mode of Political Intervention in Meiji Japan
Shatina D. Williams	Sociology, Psychology and Social Behavior	Professor Jared Sexton	The Influence of Skin Tone and Color Consciousness on the Perception of Life Opportunities for African Americans
Ryan S. Winkleman	Ecology & Evolutionary Biology	Professor Katharine N. Suding	Understanding the Effects of Nitrogen Deposition on Plant-soil Feedbacks in the Alpine Tundra
Tim Wong	Biological Sciences	Professor Olivier Civelli	Effect of MCH antagonist, TPI 1361-17 on diet induced obesity (DIO)
Emily Wong	Biological Sciences	Professor Sheryl Tsai	Structural Enzymology of Lovastatin Polyketides: Towards the Development of New Cholesterol Lowering Drugs
Justin K. Wong	Biological Sciences	Professor Sheryl Tsai	Structural Analysis of ACP-TE: The Search for Inhibitors of the Aflatoxin Biological Pathway
Alison N. Wu	Biomedical Engineering	Professor Kavita Arora	Role of the Maverick Gene in Drosophila Development
Gowa P. Wu	Psychology	Professor Barbara Sarnecka	Early Concepts of Specific and Unique Numbers
Richard T. Yi	Biomedical Engineering	Professor Zoran Nenadic	Error Rate Reduction in Brain Computer Interfaces Using Information-Theoretic Features
Yali Yu	Neurobiology	Professor Frances Leslie	The Role of Monoamine Oxidase Inhibition in Tobacco Addiction
Allison J. Zemek	Biomedical Engineering	Professor Brian J. Wong	Evaluation of Time-dependent Elastic Modulus, Mechanical Properties and Temperature Distribution Profiles of Porcine Septal Cartilage Following Laser Irradiation with Nd:YAG laser and RF Generator

Number of Proposals Submitted = 150
Number of Fellowships Awarded = 115
Number of Honorary Fellowships = 9

Total Funds Requested = \$431,750
Total Funds Awarded = \$234,950

For more information, please contact:

Said M. Shokair, Director
Summer Undergraduate Research Program (SURP)
Student Services II, Suite 2300
Phone: 824-4189 e-mail: urop@uci.edu

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