

SURP Grant Recipients

[See SURP Grants/Fellowships](#)

[2012 SURP Grant Recipients](#)
[2011 SURP Grant Recipients](#)
[2010 SURP Grant Recipients](#)
[2009 SURP Grant Recipients](#)
[2008 SURP Grant Recipients](#)
[2007 SURP Grant Recipients](#)
[2006 SURP Grant Recipients](#)
[2005 SURP Grant Recipients](#)
[2004 SURP Grant Recipients](#)
[2003 SURP Grant Recipients](#)
[2002 SURP Grant Recipients](#)
[2001 SURP Grant Recipients](#)

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SURP Awards - 2012

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

Student Name	Major(s)	Faculty Mentor (s)	Project Title
Zohal Abdurahman	Political Science, Anthropology	Professor Daniel R. Brunstetter, Professor Christine Cantarella	Socially Defined Role of Afghan Women and Their access to Education
Mohamad H. Abedi	Biomedical Engineering	Professor Elliot Hui	Pneumatic Testing of Air-Based Inverters to Optimize Miniaturized Diagnostic Devices
Kehaulani Ahu	Urban Studies	Professor Richard Matthew	Power through Participation: Civic Engagement in Documentary Film Campaigns
Jamie Amemiya	Biological Sciences, Minor - Cognitive Psychology	Professor Elysia Davis	Maternal Sensitivity a Possible Predictor of Cognitive Development in Relation to Gestational Age at Birth
Sara Arastoo	Biological Sciences	Professor Kimberley D. Lakes	The Effects of a Taekwondo Physical Education Curricula on Executive Function and Self-Regulation in Adolescents
Jocelyn L. Argueta	Biological Sciences	Professor Pinar Coskun, Professor Jorge Busciglio	The Effect of Mitochondrial Mutations on the Post-Translational Processing of Amyloid Precursor Protein

Wardah B. Arif	Psychology & Social Behavior	Professor Jutta Heckhausen	What Makes a Transfer Student Successful: Views from Transfer Students
Jahanzeb Ashraf	Biological Sciences	Professor Peter Bowler	Growing and Extracting Biofuel from Algae
Mariam Astarabadi	Biological Sciences	Professor Marcelo A. Wood	CBP and HDAC3 May Be Critical for Cocaine-Induced Extinction Learning
Soraya Azzawi	Neurobiology, Political Science	Professor Marcelo Wood	Rescue of Long-Term Location Memory for BAF53b Heterozygous Knockouts
Aisha Babb	Public Health Sciences	Professor Jared Sexton, Professor Daniel Stokols	Urban Environmental Determinants of Obesity in African Americans
Vikram K. Babu	Biomedical Engineering	Professor Wangcun Jia, Professor J S. Nelson	Determining the Safety and Efficacy for Combined Pulsed Laser and Topical Delivery of Honokiol and Rapamycin to Inhibit the Regeneration of Coagulated Blood Vessels
Arya M. Baghkhani	Chemistry	Professor James S. Nowick	Studies of Tetramer Formation through 1H-15N HSQC and Click Chemistry
Alisha K. Bajwa	Biological Sciences	Professor Jogeshwar Mukherjee	Binding of the Radioligand 18F-Mefway to the Serotonin 5-HT1A Receptor Site
Rahaf Baker	Biological Sciences	Professor Ron Frostig	The Effect of Reperfusion on the Infarct Size Directly Following Temporary Middle Cerebral Artery Occlusion in an Adult Rat Ischemic Stroke Model
Sarah M. Bauer	Dance-Performance	Professor Lisa Naugle	Comparison of Cultures in Spain, Italy, and New York Connected Through Dance Improvisation and Performance
Christine T. Bediones	Global Cultures, English	Professor AnneMarie M.	The Digestive System: An Educational Mobile

		Conley	Game
Kimberly R. Bridgewater	Dance	Professor Jodie Gates	Training as a Pre-Professional Dancer: Comparing Alonzo LINES Ballet's and Hubbard Street Dance Chicago's Styles and Approaches to Dance
Kimberly R. Bridgewater	Dance	Professor Lisa Naugle	Touring as a Preprofessional Dancer and Exploring Choreographic Relations to Music
William Brown	Chemistry	Professor Gregory Weiss	Listening to DNA Polymerase
Alden J. Calantog	Biological Sciences	Professor Petra Wilder-Smith	Development and Validation of an Optical Coherence Tomography Based Diagnostic Algorithm for Identifying Optical Characteristic Changes in Tooth Enamel During Demineralization and Decay
Everardo Camacho	Biomedical Engineering	Professor Zoran Nenadic , Professor An H. Do	Interfacing of a Brain-Computer System with a Motorized Wheelchair
Zachary Campagna	Biomedical Engineering	Professor Steven George	Optimizing 3-D Collagen Matrices to Simulate the Capillary Microenvironment in vitro
David X. Cao	Chemistry	Professor Alan F. Heyduk	The Synthesis, Characterization, and Reactivity of Novel Bimetallic Complexes for the Reduction of Carbon Dioxide
Alvin Cao	Materials Science Engineering, Mechanical Engineering	Professor Farghalli Mohamed	Investigation of a Near-Superplastic Aluminum Alloy
Christina Carnevale	Biological Sciences	Professor Albert Zlotnik	A Molecular Approach to Discovering CXCL17's Receptor
Katharine L. Cary	Ecology & Evolutionary Biology	Professor Ann K. Sakai , Professor Stephen G. Weller	Demography of Fountain Grass Populations in Central Orange County

Sarah E. Castro	Dance, Psychology and Social Behavior	Professor Lisa Naugle	Improvisation and Choreography Workshop in Spain
Sushma Chaluvadi	Biological Sciences	Professor Paolo Sassone-Corsi, Professor Kristin L. Eckel-Mahan	Effects of a High-Fat Diet on the Circadian Rhythms within Liver and White Adipose Tissue Metabolism
Carolus L. Chan	Biological Sciences, Education	Professor Jose M. Ranz	Construction of a Physical Map of the Chromosome 3 of <i>Drosophila willistoni</i>
Yu-Wen Chan	Biomedical Engineering: Premedicine, biomedical engineering minor	Professor Gultekin Gulsen	Design of a Computer Controlled Multichannel Variable- Gain Amplifier Unit and a Band Pass Filter Circuitry for DOT System
Terri L. Chang	Psychology	Professor Jeffrey L. Krichmar	RoboCup Rescue Robot League 2013
Wei-Han Chen	Mechanical Engineering	Professor Robert Liebeck	Developing Composite Wings with Closed Loop and Tapered Spar
Kevin Cheng	Chemistry	Professor Zhibin Guan	Utilization of Hydrogen Bonds to Prepare Dynamic Nanocomposites
Kevin Cho	Chemical Engineering	Professor Steven George	The Effect of Pericytes on Vessel Formation in Prevascularized Tissues
Joseph Choe	Biological Sciences	Professor Steven Gross	Regulation of Kinesin Light Chain by JIP
Jaydee N. Choompoo	Nursing Science	Professor Andrea Tenner	Evaluating the C1q Effect in M1 Polarized, Pro-inflammatory Effector Cell Macrophages
Bianca Christensen	Chemical Engineering	Professor Elizabeth Jarvo	A Methodical Approach to the Synthesis of 1,1- Diarylethanes Containing Sensitive Substituents
Brian K. Chu	Chemical Engineering	Professor Hung D. Nguyen	Molecular Dynamics Simulations of Self- Assembly by Peptide Amphiphiles for Drug Delivery
Katherine P. Chung	Psychology	Professor AnneMarie M.	MDP: Educational Mobile Game

		<u>Conley</u>	
<u>Michael A. Corrado</u>	Biomedical Engineering	<u>Professor Elliot Hui</u>	In vivo Imaging of a Stem Cell Niche
<u>Scott C. Coste</u>	Chemistry	<u>Professor Matt Law</u>	Synthesis of Nanocrystalline P-Type Semiconductors for Dye-Sensitized Solar Cells
<u>Brita V. Crain</u>	Dance	<u>Professor Lisa Naugle</u>	Expedition to Spain and Italy: Studying Dance Improvisation and Choreography
<u>Christian J. Crouzet</u>	Biomedical Engineering	<u>Professor Bernard Choi</u>	In Vivo Determination Burn Depth with Laser Speckle Imaging
<u>Michael P. Cuevas Gamboa</u>	Aerospace Engineering	<u>Professor Robert Liebeck</u>	CNC Molded Fuselage
<u>Matthew B. Curtis</u>	Biomedical Engineering, Music	<u>Professor Steven C. George</u>	The Effects of Oxygen Preconditioning on the Vascularization of Thick Tissues for Implantation
<u>Mohammad Dadkhah</u>	Biological Sciences	<u>Professor Petra Wilder-Smith</u>	The Antibacterial Effect of Natural products on Dental Decay
<u>Laurel K. Dang</u>	Biological Sciences	<u>Professor Michael R. Rose</u>	The Effect of Reverse Evolution on Populations of <i>Drosophila melanogaster</i> with a Small Size Evolutionary History: Part II
<u>Irina A. Danileiko</u>	Psychology	<u>Professor Michael D. Lee</u>	Calibration of People's Estimates of Probabilities in Soccer
<u>Susan Dannhauser</u>	Psychology	<u>Professor Sara Wakefield</u>	The Legal Diffusion of State Legislation Regarding Alcohol, Tobacco, and Other Drug Instruction in Kindergarten through Twelfth Grade
<u>Dilip R. Das</u>	Chemical Engineering, Minor in Materials Science	<u>Professor Farghalli A. Mohamed</u>	Corrosion Properties of Ultra-Fine Grained and Commercial Aluminum
<u>Chase T. Davis</u>	Biomedical Engineering	<u>Professor Wendy F. Liu</u>	Investigating the Role of Substrate Mechanics on Macrophage

			Polarization
Mark S. Dennis	Psychology	Professor Ramesh Srinivasan	Effects of TMS on Visual Attention
Lianne E. Devera	Chemistry, Biology	Professor William J. Cooper	Benzophenone Derivatives as Potential Models for Triplet-Excited State Natural Organic Matter?
Quentin Dietz	Biomedical Computing	Professor Peter Bowler	Growing and Extracting Biofuel from Algae
Justin Do	Biomedical Engineering: Premedicine	Professor Elliot E. Hui	Fabrication and Optimization of Device for Control of Single Cell Pair Contacts
Natalie Do	Psychology	Professor William Matchin	Effect of Discordant Syllable Articulation on Speech Perception
Olivia A. Domenici	Aerospace Engineering, Mechanical Engineering	Professor Benjamin F. Villac	Phobos-Deimos Cyclers
Kosha Doshi	Biological Sciences	Professor Jean Gehricke	Effects of Marijuana Use on Cognitive Performance and Brain Activity in Young Adults with and without ADHD
Geoffrey M. DuBridg	Aerospace Engineering	Professor Robert Liebeck	Funding/Material Proposal 2011-2012 AIAA Scaled Aircraft Performance Optimization, Retractable Landing Gear
Chantle R.. Edillor	Developmental & Cell Biology	Professor Bruce Blumberg	The Analysis of the Adipogenic Pathway of Bisphenol A Diglycidyl Ether, Independent of Peroxisome Proliferated-Activated Receptor Gamma in Multipotent Mesenchymal Stem Cells
Yen Chi Fang	Biomedical Engineering	Professor Elliot E. Hui	Post-assembly Laser Cutting in Microfluidic Glass Devices
Natasha Felsing	Biomedical Engineering	Professor Michelle Khine	Covalent Linkage of Biomolecules on to Metal Nanostructures

Kenneth K. Fernandez	Studio Art	Professor AnneMarie Conley	The Digestive System: An Educational Mobile Game
Kellie K. Fisher	Psychology, Minors: Statistics, Management	Professor Joanne Christopherson	Perceived Level of Institutional Support for Transfer Students' Attainment of Post-Baccalaureate Degrees
Briana Fitch	Biological Sciences	Professor David Fruman	Characterizing eIF4F and c-Myc Overexpression in Cancers as a Means of Resistance to Targeted Therapy
Sophia Fonua	Business Economics, Political Science	Professor Katherine Tate	Public Opinion of Minority Women towards Social Welfare Programs
Christopher A. Galeano	Political Science	Professor Louis DeSipio	Immigration Related Media and its Negative Influences on Public Opinion
Kelsey E. Gerber	Dance, Sociology	Professor Lisa Naugle	Travel in Spain and Italy: Study and Practice of Improvisation, Choreography, and Screendance
Landon M. Gibson	Biological Sciences	Professor Frances M. Leslie	The Contribution of Non-nicotine Tobacco Constituents to Reward on a Progressive Ratio Schedule
Amy D. Goldman	Sociology	Professor Andrew Penner	Exploring International Gender Differences in Mathematical Confidence and Skills and Job Preferences
Jose R. Gomez	Physics, Mathematics	Professor Philip G. Collins	Resistive Properties, Single Carbon Nanotube Defects
Nisa Goshtasbi	Biological Sciences	Professor Nosratola Vaziri	Effect of Human Uremic Sera and Hemodialysis on the Colonic Epithelial Cell Tight Junction Apparatus
Maunika S. Gosike	Biomedical Engineering	Professor Elliot Hui	Fabrication of Compression Device for Trapping and Imaging of Hydra
Daniel S. Grant	Mechanical	Professor	Nanocrystalline

	Engineering, Materials Science Engineering	Timothy J. Rupert	Materials: Tuning Grain Boundary Structure for Improved Failure Resistance
Cyla E. Grisso	Dance	Professor Lisa Naugle	Improvisation and Choreography Workshops in Italy and Spain
Hongyang Guan	Psychology	Professor Joachim Vandekerckhove	Publication Bias in Three Prominent Psychological Journals
Randy W. Harper	Computer Science & Engineering	Professor Ian G. Harris	GeoTIFF Mapping Using Computer Vision
Vahan C. Hartooni	Computer Science & Engineering, Digital Arts Minor	Professor Bryan Jackson	Sakura Transmutation: Twitter Ikebana
Bima Hasjim	Biological Sciences, Psychology	Professor Min Li	Role of Enkephalin During the effects of Electroacupuncture on Hypertension
Omeid Heidari	Nursing Science	Professor Brandon Brown, Professor Julie Rousseau	HPV Vaccine and STI/Sexual Health Education acceptability among a largely Latino Population
Timothy Hernandez	Electrical Engineering	Professor Benjamin Villac	High Voltage Power Processing Unit for an Electrostatic Propulsion System
Daniel V. Ho	Biological Sciences	Professor Jefferson Y. Chan	Expression of Nrf1 is Regulated by the Ubiquitin-Proteasome System by Forming a Negative Feedback Loop with Herp
Victoria T. Ho	Biomedical Engineering: Premedicine	Professor Elliot Hui	Mathematical Modeling of Cell Behavior Verified Through 3-D Geometric Culture
Kaylyn A. Hopkins	Dance	Professor Lisa Naugle	Dance and Choreographic Exploration and Research in Europe
Davit Hovhannisyan	Computer Science & Engineering	Professor Fadi Kurdahi	Interrupt Handling for Camera Based Video Synchronized Mobile Projectors
Jin A. Hur	Biological Sciences	Professor Ulrike Luderer	Gclm Null Female Mice Are More

			Susceptible to Transplacental Induction of Ovarian Tumors by benzo[a]pyrene
Michelle Hwang	Biomedical Engineering	Professor Elliot Hui	Implementation of Digital Logic in Microfluidic Serial Dilution
Caitlyn E. Hwe	Biological Sciences	Professor Anne Phan	Comparison of Opposing Positional Information in Axolotl and Mouse Limb Bud ECM
Camden S. Jansen	Aerospace Engineering	Professor Ali Mortazavi	An Interactive Web Interface for Exploring the ENCODE Self Organizing Map
Trevor Jones	Civil Engineering	Professor Russell Detwiler	Quantifying Subsurface Calcite Precipitation in Carbonate Rock Systems
Bhavin S. Joshi	Chemistry	Professor Zhibin Guan	Molecular Wiring of Quantum Dot Thin-Films: Towards Enhanced Transport
Patrick Kahn	Biomedical Engineering	Professor Michelle Khine	Shrink-Induced Fluorescent Enhancement for Point-of-Care Diagnostics
Hannah M. Kang	Psychology & Social Behavior	Professor Peter H. Ditto	Cultural Difference in Moral Judgments
Jessica Kao	Mechanical Engineering	Professor Garnet Hertz	Videodome Project
Sonia R. Kaushal	Biomedical Engineering	Professor Elliot Hui	Size-Selective Filtration Device for High-Throughput Study of Aging in <i>C. elegans</i>
Behdad Kavianpour	Biological Sciences	Professor James V. Jester	Evaluation of Mesenchymal Stem Cell Transplantation as a Potential Therapy for Corneal Disease by Immunofluorescent Computed Tomography (ICT).
Seyed Ali A. Khalessi Hosseini	Biomedical Engineering	Professor Stephanie M. Reich	Infantile Feeding Habits and Health Outcomes during the First 18 Months of Life

Sungwon Kim	Chemistry	Professor Farghalli Mohamed	Investigation of a Near-Superplastic Aluminum Alloy
Jin Soo Kim	Materials Science Engineering	Professor Farghalli A. Mohammed	Corrosion Properties of Nanostructured and Commercial Aluminum
Jeehoon Kim	Chemistry	Professor Matt Law	Nanocrystalline Thin Film Synthesis and Characterization for Dye Sensitized Solar Cells
Colin M. Kincaid	Biomedical Engineering	Professor Elliot E. Hui	Optogenetic Control of Stem Cell Differentiation
Akihisa T. Kodama	Physics	Professor Michael Dennin	The Effect of Various Particle Sizes on the Formation of Domains in Lung Surfactant
Jennifer Komissarenko	Political Science, History	Professor Caesar Sereseres, Professor Patrick Morgan	Land Rights and Activism: An Analysis of the Growing Threat of Mapuche Indigenous Tribes to the United States, Chilean, and Argentine Government
Ryan C. Kuehne	Mechanical Engineering	Professor John Garman	Water Saving Mechanical Trap Toilet
Sharango Kundu	Aerospace Engineering	Professor Peter Bowler	Growing and Extracting Biofuel from Algae
Steven Kurumada	Psychology	Professor Mahtab Jafari	The Action of Cinnamomum aromaticum on Insulin and Insulin-Like Growth Factor Signaling in Drosophila melanogaster
Sharon A. Kuruvilla	Biomedical Engineering	Professor Jogesh Mukherjee	¹⁸ F-Nifene Binding to the α 2 Nicotinic Acetylcholine Receptors (nAChRs) in the Brain
Elliott Y. Kwan	Biomedical Engineering	Professor Bruce Tromberg	Exploring Laser Speckle Contrast Imaging on Skin
Stephanie Kwok	Mechanical Engineering	Professor Benjamin Villac	Thermal Analysis of Cube Satellite Propulsion System
Nicholas D. LaJeunesse	Electrical Engineering	Professor Bryan Jackson	Sakura Transmutation: Twitter Ikebana
Jaspreet K. Lally	Physics	Professor James S. Bullock	Supernova Feedback and Other Galaxy

			Formation Processes and their Effects on Dark Matter Distribution around Galaxies
Anthony C. Lan	Chemical Engineering	Professor Hung Nguyen	Deciphering Kinetic Mechanisms of DNA Renaturation and Self-Assembly via Molecular Dynamics Simulations
Benjamin M. Latham-Bryman	Psychology & Social Behavior	Professor Larry D. Jamner	Understanding Nonmedical Use of Prescription Stimulants by College Students: The Roles of Locus of Control, Self-Efficacy, & Self-Esteem
Daniel Kha T. Le	Chemical Engineering	Professor Regina Ragan	Surface Enhanced Raman Spectroscopy Using a Structured Nanodomain of Gold Nanoparticles Via Block Copolymer Micellar Lithography
Jeanette A. Lee	Earth & Environmental Science	Professor Adam Martiny	Nutrient Stoichiometric Ratios in Southern California
Katherine Lee	Biomedical Engineering	Professor Nathan D. Wong	Does Low Vitamin D Amplify the Association of COPD with Total and Cardiovascular Disease Mortality?
Jalmari K. Lee	Aerospace Engineering	Professor Feng Liu	Heat and Mass Transport Phenomena in Nanotube Gas Flows
Carlin S. Lee	Biological Sciences	Professor Manuela Raffatellu	The Role of Manganese Acquisition During Salmonella Infection
John Leong	Biological Sciences	Professor Shiou-Chuan Tsai	Determination of Structure and Function of EqiS TR, a Enzymatic Domain of Equisetin Synthase
Deborah A. Lewis	English	Professor Alice Fahs	The Locket: From Mother to First-born Daughter; From the Old Country to the New World
Zhenzhi Li	Biological Sciences	Professor Yi-Hong Zhou	EP-20's Role of Downregulating

			EGFRvIII
Kevin Y. Lim	Drama	Professor Myrona DeLaney	Writing an Album Musical: Mixing Artistic Creativity with Technology to Produce a New Musical in an Alternate Medium
Katherine R. Liptrap	Psychology & Social Behavior	Professor Angela F. Lukowski	An Examination of the Effects of Sleep Quality and Napping Behavior on Cognitive and Social-Emotional Performance in University Students
Michael Liu	Neurobiology	Professor Nathan D. Wong, Professor Sarah Choi	Ethnic and Gender-specific Prevalence of Type 2 Diabetes Mellitus among Adults in the California Health Interview Survey 2009
Patrick C. Lo	Biomedical Engineering	Professor Bernard H. Choi	High Resolution, Depth-Resolved Imaging of Mouse Heart Microvasculature Using Optical Histology
Katherine Lo	Mathematics	Professor Bonnie Nardi	Manipulation of Mechanical Devices in Video Games: Implications for Understanding the Material and the Immaterial in Computing Experience
Alexandra M. Lossada	English	Professor Richard Godden	"They Had Devoured Parts of Him." Desire, Violence, and Reading Black and White Bodies in Tennessee Williams's Suddenly Last Summer and "Desire and the Black Masseur"
Mengrou Lu	Biological Sciences	Professor David A. Fruman	Anti-Leukemic efficacy of asTORi/HDACi combination
David Lu	Pharmaceutical Science	Professor Mahtab Jafari	Identifying Green Tea's Effect on Dietary Restriction in Drosophila Melanogaster
Michael W. Lum	Biomedical Engineering	Professor William Tang	A Comparison of Microfluidic Platforms

			for Isolation of Circulating Tumor Cells
Camille B. Macalinao	Psychology	Professor Michael D'Zmura	Using EEG Recordings of Covert Shifts of Spatial Attention to Signal Intended Direction
Sridivya Majji	Biological Sciences, Minor: Public Health Policy	Professor Jogeshwar Mukherjee	Rodent PET Evaluation of Fluorine-18 Labeled Dopamine D3 Receptor Agonist, 18F-7-OH-FHXPAT
Melinda J. Malley	Mechanical Engineering, English	Professor Mark Bachman	Magnetic Coupling in a Mechanical Hearing Prosthesis
Maritza Mantilla	Political Science, International Studies; Spanish	Professor Caesar Sereseres	Chile: Women in Public Office
Anna M. Mariscal	Anthropology	Professor Lisa Naugle	An Anthropological Approach to Observing and Recording Dance Improvisation and Choreography
Sean Marquez	Mechanical Engineering	Professor Benjamin Villac	UCISAT-1: Mission Analysis & Control
Alex C. Matlock	Biomedical Engineering	Professor Bruce J. Tromberg	Fabrication of a Fast, Scalable Prototype for Diffuse Optical Spectroscopic Imaging (DOSI)
Melissa Anne. McManus	Microbiology & Immunology, Art History	Professor Stephanie Reich	The Effects on Infant Imitation and Memory Retention from Skype, Video, and Live Demonstrations
Aakash Mehta	Environmental Engineering	Professor Sunny Jiang	Microbial Desalination Fuel Cell Construction
Janki B. Merai	Psychology, Anthropology	Professor Jodi Quas	The Relationship between Child Witness' Numerosity Abilities and Trial Outcomes
Roya M. Mirilavassani	Biological Sciences	Professor Andrej Luptak	Metabolite-Induced Change in Self-Scission of Ribozyme Found in <i>F. prausnitzii</i>
James K. Mitchell	Physics, Biological Sciences	Professor Clare C. Yu	Relation of Mammographic Density Distribution to Tumor Location in

			Breast Cancer
Stephen W. Mock	Biomedical Engineering: Premedicine	Professor Michelle Khine	Using Photolithography and Oxygen Plasma Etching Techniques to Design Optimized Superhydrophobic Surfaces on Open Microfluidic Chips
Grant E. Moe	Psychology	Professor Jeffrey L. Krichmar	Survey of Robot Designs and Control for RoboCup Rescue Robot League 2013
Andrew LR. Moodie	Mechanical Engineering	Professor Lorenzo Valdevit, Professor Timothy J. Rupert	Architected cellular ceramic materials for next-generation multi-functional thermal protection systems
Jessica M. Motherwell	Biomedical Engineering	Professor Steven C. George	Determining the Ratio of Collagen to Fibrin in a Three-Dimensional Matrix to Optimize Blood Vessel Formation
Samantha Navarro	Literary Journalism, Global Cultures minor	Professor Barry Siegel	The Undocumented Struggle
Zahra Nematinejad	Public Health Sciences	Professor Jorge Busciglio, Professor Pinar E. Coskun	The Role of Mitochondrial Dysfunction in Autism Spectrum Disorders
Elaine Ngo	Biological Sciences	Professor Peter Bowler	Growing and Extracting Biofuel from Algae
Ai-Thuan P. Nguyen	Pharmaceutical Science	Professor Min Li	CCK-8 Mechanism in the Electroacupuncture Inhibitory Effect on Sympathetic Reflex Responses in Rats
Sophia N. Nguyen	Business Economics	Professor Gary Richardson	The Smoot-Hawley Tariff Act's Effect on the Great Depression
Baolong T. Nguyen	Mechanical Engineering	Professor John C. LaRue, Professor Abdullah Alkudsi, Professor Alejandro Puga	Creation of homogeneous and isotropic turbulence by use of screens and grids
Adrienne K. Nguyen	History, Anthropology	Professor Emily S. Rosenberg	War or Conflict: The History/Memory of

			Vietnam, Race, and Second Generation Vietnamese Americans
Y T. Nguyen	Sociology	Professor Yang Su	Contradictions, the Chinese Revolution and Its Influences
Andrew L. Nguyen	Chemistry, Biological Sciences	Professor Athan J. Shaka	Melting Points of Metal Fluoride Salt Mixtures
Eric Nguyen	Biomedical Engineering	Professor Abraham P. Lee	A Novel Microfluidic Device For Point-of-Car PCR Analysis in a Portable Diagnostic Unit
Truman K. Nguyen	Biological Sciences	Professor Albert E. Cerussi	Construction and Testing of Tissue-Simulating Phantoms to Model Intrinsic Optical Scattering Contrast between Healthy and Diseased Breast Tissue to Improve Breast Cancer Diagnosis and Detection
Nika Nikbakht	Biomedical Engineering, Biology	Professor Anthony Joseph. Durkin, Professor Mihaela Balu	Using Multiphoton Microscopy to Characterize Sun-exposed and Non Sun-exposed Skin
Jessica M. O'Neill	Chemistry	Professor Jennifer A. Prescher	Development Of Novel Luciferin Analogs
Michelle A. Oei	Biological Sciences, Chemistry	Professor David M. Gardiner	Expression of FGF and Cell Surface HSPGs in Regenerating Limbs of an Axolotl (<i>Ambystoma mexicanum</i>)
Dean Y. Orellana	Chemical Engineering	Professor Chenyang S. Jiang	Isolation and Characterization of Electricity-generating Bacteria in Microbial Desalination Fuel Cell (MDFC)
Sandy Ortiz	Biological Sciences	Professor Peter Bowler	Growing and Extracting Biofuel from Algae
Seyed Soroush. Pairawan	Biological Sciences	Professor Christine Suetterlin	Effects of Chlamydial Deubiquitinases on the Centrosomal Protein HsSAS-6 and

			Centrosome Morphology
John Parcell	Aerospace Engineering, Mechanical Engineering	Professor Robert Liebeck	Undergraduate Design/Build/Fly Competition
Divya B. Parmar	Economics, Political Science	Professor Gary Richardson	Economic Recovery and Investment during the Great Depression
Akash R. Patel	Aerospace Engineering, Mechanical Engineering	Professor Benjamin Villac	Lightweight Deployable Solar Panels in Cube Satellite Designed for Lower Earth Orbit
Monil Patel	Biological Sciences	Professor Peter Bowler	Growing and Extracting Biofuel from Algae
Avinash B. Patel	Biological Sciences	Professor Shiou-Chuan Tsai	Determining the Structure and Function of Monooxygenases BexI, BexE and BexM Involved in the Biosynthesis of BE-7585A
Vyvy Pham	Chemistry, Biological Sciences	Professor Rachel Martin	Investigating Biophysical Characteristics of the Antarctic Toothfish
Hiep-Huy Pham	Biochemistry & Molecular Biology	Professor Christopher Hughes	Optimizing Extracellular Matrix Proteins for Maximum Microvessel Network Formation
Hyung B. Phouasalit	Biomedical Engineering	Professor Elliot Hui	Tumor-Fibroblast Expression Patterns Induced by Short Range Paracrine Signaling and the Effects of Spatially Activating the Wnt Pathway
Aswini Ponnaluri	Biomedical Engineering	Professor William Tang	Cell Simulation Using SU-8 Material to Study the Biomechanics of Cardiomyocytes
Clare R. Quirk	Biological Sciences	Professor Norbert Fortin , Professor Timothy Allen	Effects of Temporary Disconnection Lesions of the Hippocampus and Medial Prefrontal Cortical Circuit in Sequence Memory
Brittany Raynor	Neurobiology	Professor Georg F. Striedter	Effects of Meningeal Membrane Removal on Chick Optic Tectum

			Development
Tahir Rizvi	Biomedical Engineering: Premedicine	Professor Norman M. Weinberger	Effect of Nucleus Basalis Stimulation on Cross-Modal Integration in Auditory Cortex
Armaan A. Rowther	Biological Sciences, Public Health Policy	Professor Shahram Lotfipour	Development of a Decision Instrument for Selective Chest Radiography in Blunt Trauma
Sasha S. Sabherwal	Women's Studies, Political Science	Professor Jennifer Terry	WHO NEEDS ATTENTION: A Comprehensive Archival History and Analysis of the UC Irvine Women's Studies Department
Stella N. Sakhon	Psychology & Social Behavior	Professor Gary Richardson	Experimental Bank Runs
Nimrah Salim	Public Health Policy	Professor Kimberley Lakes	The Effects of a Taekwondo Physical Education Curricula on Executive Function and Self-Regulation in Adolescents
Satyajeet S. Salvi	Biological Sciences, Sociology	Professor Steven Gross	Comparison of Antibacterial Activity of Histones and LDs from early Drosophila Embryos
Kevin L. Santiago	Biomedical Engineering	Professor Michelle Khine	Shrink-Film Multiscale Wrinkles for Culturing Human Embryonic Stem Cells
Amin Sarraf	Public Health Sciences	Professor Petra Wilder-Smith	Prevention of Root Caries Using Natural Products
Thomas D. L. . Sayles	Mechanical Engineering, MSE minor	Professor John C. LaRue	Decay and Homogeneity of Active Grid Generated Turbulence
Rose A. Schlaff	Psychology & Social Behavior, Biological Sciences	Professor Larry Jamner	Is it Truly Better to Give than Receive? An Ecological Momentary Assessment of Frequent and Recurrent Headache Pain
Ashley S. Scott	Biomedical Engineering: Premedicine	Professor Elliot Hui	Juxtacrine-Permeable Membranes
Natasha Sekhon	Earth &	Professor	Holocene Tropical

	Environmental Science	Kathleen Johnson	Hydrology of Speleothem Records
Mehwish Shakeel	International Studies	Professor Sohail Daulatzai	Nationalism and Belonging: Factors Contributing to Nation-building Efforts in Pakistan
Golroxan Shoa	Biological Sciences	Professor Alyssa Brewer	Encoding Simple and Complex Objects into Visual Working Memory
Abdullah Siddiqui	Biomedical Engineering: Premedicine	Professor William Tang	Computer Modeling Strategies for Experimental Apparatus to Quantify the Strength of Cellular Contractile Forces
Cassandra D. Squiers	Earth & Environmental Science	Professor Richard A. Matthew	Developing a Database of Energy Feedback Technology
Veronica A. Swanson	Mechanical Engineering	Professor Ian G. Harris	GeoTIFF Mapping Using Computer Vision
Anthony G. Sweeting	Chinese Language & Literature, Minor Planning Policy & Design	Professor Richard A. Matthew	Public Acceptance of Smart Meters: Integrating Psychology and Practice
Nayab Syeda	Sociology	Professor Catherine Bolzendahl	Unequal Equality: Patterns of Support across Dimensions of Gender Equality
Keli Y. Tahara	Neurobiology	Professor David B. Kilgore	A Survey on Faculty and Residents at UCI Family Health Center: Attitudes and Knowledge
Roxanne Talamayan-Pascua	Neurobiology	Professor Gary Lynch	Unsupervised Learning in Rats: Exercise vs. Enriched Environment
Adeline G. Tang	Biological Sciences, Education	Professor Jennifer B. Martiny	Measuring the Seasonal Abundance of Marine Microbes through Flow Cytometry
Bakr H. Teebi	Biomedical Engineering	Professor Michelle Khine	Arrays of Tunable Gold Antennas for Enhanced Sensing
Jacqueline Thomas	Aerospace Engineering, Mechanical Engineering	Professor Robert Liebeck	The Human Powered Airplane for Sport
June Tong	Biomedical	Professor	Modulated Imaging: A

	Engineering: Premedicine	Anthony Durkin	Wide-field Optical Imaging Platform for Clinical Research
Alexandria Tong	Psychology & Social Behavior	Professor Larry Jamner	Effects of Emotional Eating on Mood and Eating Behavior: an Ecological Momentary Assessment of Eating and Affect
Amy Tran	Biological Sciences	Professor Andrea J. Tenner	Exploring the Role of C5a
Gerard D. Tran	Biological Sciences	Professor Michael R. Rose	Hybridization and Population Size in Forward Selection: a case-study in <i>Drosophila melanogaster</i> .
Teresa D. Tran	Pharmaceutical Science	Professor Mahtab Jafari	Protection of Human Cultured Cells Against Oxidative Stress by Tahitian Botanical Plants
Daniel C. Tran	Pharmaceutical Science	Professor Paolo Casali , Professor Guideng Li	AID-Dependent Recruitment of ATF2 to Switch Region Mediates Double-Strand Break Repairs in Class Switch Recombination
Luan Tran	Environmental Engineering	Professor Betty Olson	Investigation of Foaming Bacteria: <i>Gordonia amarae</i> in an Incompletely Nitrifying Water Reclamation Plant
Jonathan V. Trinidad	Chemistry	Professor Scott D. Rychnovsky	Determining the Absolute Configuration of Oxazolidinones and Lactams Utilizing Kinetic Resolution Catalysts
Joshua E. Tromberg	Psychology	Professor Ramesh Srinivasan	Accumulation of Evidence by Neural Populations in the Visual System During Form Perception
Stephanie Truong	Pharmaceutical Science	Professor Mahtab Jafari	Characterization of the Putative Active Compounds in <i>Rhodiola rosea</i>
Roger Tu	Biological Sciences	Professor Michelle Khine	Functional Alignment of Human Embryonic Stem Cells Derived

			Cardiomyocytes to Promote Maturation
Kevin Vu	Physics, Mathematics	Professor Kieron Burke	Using Machine Learning to Determine Kinetic Energy as a Functional of Density in 1D Periodic Systems
Jennifer P. Vu	Pharmaceutical Science	Professor David Z. Luo	How Thrombospondin-4 Effects Contributes to Pain Processing
Bryant T. Vu	Chemical Engineering	Professor Jim Earthman	Mapping of Particle Grooves with Depth Measurement
Matthew P. Wiersma	Biomedical Engineering: Premedicine	Professor Bernard Choi	High Resolution Imaging Conveying Depth Information of Mouse Brain Microvasculature Using Optical Histology
Elizabeth Wille	Chemistry	Professor Matt Law	High Yield Lead Telluride Quantum Dot Synthesis for Use in Photovoltaics
Madison E. Wilson	Psychology & Social Behavior	Professor Jennifer Skeem	Risk, Needs, Responsivity and Recidivism: An Assessment of Hawaii's Interactive Journaling Program
Fiona Wong	Biochemistry & Molecular Biology	Professor Sheryl Tsai	Synthesis of Polyketide Analogues and their Crystallographic Analysis
Chun Wu	Biomedical Engineering	Professor Michelle Khine. McLane	Optimizing Hydrophilicity on Super-Hydrophobic Surface with Oxygen Plasma Treatment
Sheila Xiao	Sociology	Professor Ann Hironaka	A World Society Perspective on Environmental Outcomes
Bryan J. Xie	Biological Sciences	Professor Jennifer A. Prescher	Development of Azido Carbamate Sugar for Catch and Release of Proteins
Mannchuoy Yam	Computer Science & Engineering	Professor AnneMarie Conley	The Digestive System: An Educational Mobile Game
Michelle N. Yancoskie	Biological	Professor Lee	Phosphorylative

	Sciences, Will apply for Genetics after Winter 2012	Bardwell	Mechanisms in Grainyhead-like 3
Stephen T. Yeung	Public Health Policy, Sociology	Professor Frank M. LaFerla	Exploring the Impact of Brain Injury on Adult Neurogenesis
Elyse M. Young	Biological Sciences	Professor Mahtab Jafari	Biological Characterization of Rosavin and Synthetic Rosavin Analogs
Genesis M. Zamora	Biological Sciences	Professor Henry Hirschberg	Photochemical Internalization (PCI) Enhanced Nonviral Transfection of Pro-Drug Activating Genes; A Potential Treatment Modality for Brain Tumors

Number of Proposals Submitted = 237
Number of Fellowships Awarded = 201
Number of Honorary Fellowships = 24

Total Funds Requested = \$653,629
Total Funds Awarded = \$317,805

For more information, please contact:

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[TOP](#)