GRADUATE STUDENT SUMMER FELLOWSHIPS 2012

Student	Advisor	Proposal Title
Alyssa Carrell	Carolin Frank	Exploring the Mechanisms Controlling the Presence of Endophytic Bacteria in Forest Tree Seedlings
Ammar Albalasmeh	Teamrat Ghezzehei	Mathematical Modeling of Bond Formation between Soil Particles by Wetting-Drying Cycles in the Presence of Dissolved Binding Agents
Amy Moffat	Nella Van Dyke	The Labor of Labour Support: Professionalization of Doulas
Andrea Rodarte	Sai Ghosh Linda Hirst	Improving Luminescent Solar Concentrators Using Cholesteric Liquid Crystal as a Photonic Crystal
Angelo Kyrilov	David Noelle	Using Artificial Intelligence Methods to Automate Feedback Delivery when Learning Complex Problem Solving Skills
Azade Petrosky	Ariel Escobar	Role of NCX1 in Epicardial Calcium Dynamics and Electrical Signaling
Beth Hernandez-Jason	Manuel Martín-Rodríquez	Presenting and Writing on John Rechy
Bodo Winter	Teenie Matlock	Fellowship Application for Travel and Research in Germany
Bryan Kerster	Chris Kello	Human Foraging in a 2D Virtual Environment
Chelsea Carey	Steven Hart	Response of a California Grassland to Multiple Global Change Factors
Chris Fradkin	Jan Wallander	Variance in Body Mass Index Among Minority Adolescents
Dan Hu	Lin Tian	Quantum Entanglement for the Unstable Optomechanical System
David Martin	Francois Blanchette	Effects of Surfactants on Partial Coalescence of Soap Bubbles and Drops
Derek Burch	Stefano Carpin	Hierarchical Search Utilizing Teams of Aerial Robots
Derya Şahin	Boaz Ilan	Light Propagation In Semiconductor-Based Luminescent Solar Concentrators
Eric Chiu	Michael Spivey	Auditory Cues During Action Effects Decision-Making
Eric Josephs	Tao Ye	Molecular Engineering of Electrically-Switchable Biosensor Surfaces
Erika Diaz Almeyda	Mónica Medina	Diversity in Temperature Response Strategies Between Divergent Lineages of Symbiodinium.

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Fabrizio Galeazzi	Mark Aldenderfer	New Methodologies for 3D Documentation and Preservation in Archaeology
Gary Abel	Tao Ye	A Nanoscale Study of DNA-Based Recognition in Molecular Self-assembly
Gayatri Premasekharan	Valerie Leppert	Low Dose Ambient and Engineered Silica-induced Macrophage Cytokine Production: Effect of Particle Size and Iron Mediated Peroxidation and Lipid Raft Disruption
Heather Thompson	Jennifer Manilay	Macrophages Pose a Barrier to Embryonic Stem Cell Derived Hematopoietic Progenitor Engraftment after Transplantation
Henry Pai	Tom Harmon	Synoptic Surveys to Quantify Groundwater-surface Water (GW-SW) Fluxes Along the Lower Merced River
Jason Baumsteiger	Andres Aguilar	Biogeographic Projections using Population Genetic Structure within Three California Freshwater Species of Sculpin, Prickly Cottus asper, Riffle C. gulosus, and Pit C.pitensis.
Jeff Rodny	David Noelle	Modeling the Actor-Critic Architecture by Combining Recent Work in Spike-Timing-Dependent Plasticity and Temporal Difference Learning
Jie Xue	Patricia LiWang	Biochemical Investigation of the Mechanism of Griffithsin: The Dimer structure plays an essential role in Griffiths in function
Jimei Yang	Ming-Hsuan Yang	Object-Aware Deformable Image Matching
John Bunce	Rose Scott	Finding Meaning in a Noisy World: How Cross-Situational Statistics Drive Word Learning
Jonathan Boyajian	William Shadish	A Meta-Analysis of the Autocorrelation in Single Case Designs
Jose Pablo Vazquez-Medina	Rudy Ortiz	Glucocorticoids Stimulate the Redox-dependent Antioxidant Response by Selectively Increasing Oxidant Production in Elephant Seals
Katherine Amrine	David Ardell	Novel Tools for Phylogenetic Investigations
Laura Kelly	Evan Heit	Investigating a Representational Shift Account of Recognition Memory
Liza Gomez Daglio	Michael Dawson	Hidden biodiversity in the Tropical Eastern Pacific
Marieka Arksey	Holley Moyes	Ceramic Analysis and Cave Use in the Classic Maya Period
Mark Kerfoot	Michael Scheibner	Light-Induced Networking of Quantum Structures (LINQS)
Mentar Mahmudi	Marcelo Kallmann	Multi-modal Humanoid Planning with Motion Capture

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Neeraj Sharma	Gerardo Diaz	Heat and Mass Transfer in Liquid Film Under Electric Glow Discharge Conditions
Paola Di Giuseppantonio Di Franco	Kathleen Hull Mark Aldenderfer	Digital Objects Representation in Research and Education: The Value of 3D for Knowledge Acquisition in Archaeology.
Sandra Rocio Villamizar Amaya	Tom Harmon	Whole-stream Metabolism Used as an Indicator of the Response of the San Joaquin River to Flow Releases for Fish Habitat Restoration
Sarah Scott	Jan Wallander	The Association of Gender Identity with Quality Life for African American, White, and Hispanic Adolescents.
Sergio Pineda	Gerardo Diaz	Shear Induced Film Break-up in Humid Air and Liquid Desiccant Narrow-channel Interaction.
Seung Bum Park	Jinah Choi	Suppression of Host Innate Immunity by HCV F/ARF Protein
Shanna Erickson	Evan Heit	Metacognition in Mathematics Education
Sharon Patris	Michael Dawson	Community Assembly and Population Structure of Foraminifera in Marine Lakes of Palau
Shelley Rohde	Arnold Kim	Detecting Early Stages of Cancer in Epithelial Tissues with Reflected Light
Shuhuai Xiang	Matt Meyer	Accurate Experimental Measurements and Calculation Involving Multidimentional Tunneling
Silin Sa	Kara McCloskey	Effects and Mechanism of Extracellular Matrix on Cardiomyocyte Differentiation
Stephanie Huette	Michael Spivey	Embodied Process and Meaning: Integrating Modal Verbs and Negation
Tao Ren	Michael Modest	Improved Wavenumber Selection Scheme for Line-By-Line Photon Monte Carlo Simulations in Combustion Systems
Teresa Rinaldi	Ignacio López-Calvo	The Nikkei in Brazilian and Argentinean Literature and Film: Nation, Identity, and Cultural Performance
Thomas Giagou	Matt Meyer	The Origins of Stereoselection in Catalytic Asymmetric Hydrogenations
Wenkai Li	Qinghua Guo	Geographic Modeling with One-Class Data
Yaqiong Lu	Lara Kueppers	Assessment of the Impact of Irrigation on Future Climate in the United States