

Student	Advisor	Project Title
Mufadhal Al-Kuhlani	Marcos Garcia-Ojeda	Analysis of Signals that Regulate the Fate of Early T Cell Progenitors
Benjamin Balaguer	Stefano Carpin	How Robots Can Help You: Solving Critical Challenges in Service Robotics
Jason Baumsteiger	Andres Aguilar	Molecular Systematics and Speciation in Two Freshwater Species of Sculpin, Prickly Cottus asper and Riffle C. gulosus.
Carlos Bazua	Maurizio Forte	1) Extending the roads for survival: The ongoing Maya Diaspora 2) Excavating, documenting and reconstructing Catal Huyuk
Jonathan Boiser	Arnold Kim	Mathematical Analysis of Light Transport in Domains with General Boundary Geometries
Korana Burke	Kevin Mitchell	Turnstile approach to ionization of the Rydberg atom in crossed fields
Eva Cadez	Evan Heit	A Dynamical Model of Memory
Corey Cain	Jennifer O. Manilay	Analysis of the Effects of Osteoblast Differentiation on Immune System Development
Chelsea Carey	Stephen Hart	Microbial community composition as an indicator of ecosystem susceptibility to invasion
Eric Chen	Wei-Chun Chin	Nicotine-induced mucin secretion by modulating the K^+/Ca^{2+} ion-exchange process of mucin matrices

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Debra Conte	Rudy Ortiz	Chronic blockade of AT1 and mineralocorticoid receptors disrupt cardiac Renin-Angiotensin II-Aldosterone System
Benjamin Doblack	Lilian Davila	Cuda Accelerated Molecular Dynamics Simulations For Interactive Engineering Design of Nanostructures
Varick Erickson	Alberto Cerpa	Creating Energy Efficient Smart Buildings Through Occupancy Detection
Liza Gomez-Daglio	Mike Dawson	Modes of geographic speciation of jellyfish (Cnidaria: Scyphozoa) in the Tropical Eastern Pacific, including the Gulf of California
Kandice Grote	Michelle Chouinard	The Potential Benefits of Speaking More Than One Language on Non-Linguistic Cognitive Development
Joseph Heras	Andres Aguilar	Identifying molecular and adaptive evolution within a highly diverse group of fishes, Rockfish (Sebastes) subgenus Pteropodus
Zhe Hu	Ming-Hsuan Yang	Image Deblurring via Sparse Representation and Adaptive Dictionary Learning
Yazhou Huang	Marcelo Kallmann	Parameterization and Collection of Demonstrative Gestures for Interactive Virtual Humans
Justin Hujdic	Erik Menke	High Density Array of Nanowires prepared by Lithographically Patterned Nanowire Electrodeposition

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Chieri Ito	Jinah Choi	Novel viral element in the suppression of innate immune response by hepatitis C virus
Mark Kerfoot	Michael Scheibner	Light-Induced Networking of Quantum Structures (LINQS)
Eric Lau	Maria Pallavicini	Elucidating molecular mechanisms guiding fate decisions in mammary gland progenitors
Daniel Leung	Shawn Newsam	Proximate Sensing: Leveraging Geo-referenced Photo Collections to Map Our World
Yaqiong Lu	Lara Kueppers	Develop new crop types and land managements in a land surface model
Kaitlin Lubetkin	Lara Kueppers	Extent, Causes, and Consequences of Conifer Encroachment into Subalpine Meadows in the Sierra Nevada, California
Luis Martinez	Ray Chiao	Creating Anyons via type II superconducting niobium films
Justin Matthews	Teenie Matlock	Research on the temporal dynamics of social distance
Matthew Meyerhof	Michael Beman	The Dynamics and Rare Members of Microbial Communities in a Unique Marine Ecosystem
Oktar Ozgen	Marcelo Kallmann	Underwater Cloth Simulation with Fractional Derivatives

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Tanuja Harshani Peiris	Marcos Garcia-Ojeda	Age Related Dynamics of Common T Cell Progenitors
Joshua Phillips	Shawn Newsam and Mike Colvin	Quantifying Intrinsically Disordered Protein Dynamics
Sergio Pineda	Gerardo Diaz	Shear Induced film break-up in humid air and liquid desiccant in narrow channel interaction
Michael Romano	Michael Spivey	Neural Network Model of Similarity in Visual Perception: Understanding a Central Process of Cognitive Science
William B. St. Clair	David Noelle	Temporal Illusions and Interval Timing
Holly Swift	Mike Dawson	Consequences of the adaptive radiation of Mastigias papua: Niche evolution of flow regimes and feeding ecology
Corinne Townsend	Evan Heit	The relationship between self efficacy and metacognition
Sandra Villamizar	Tom Harmon	Using whole stream metabolism as an ecosystem function metric in response to water management practices
Emily Wilson	Carolin Frank	Biogeography of the Methylobacterium Variable Genome
Hui Zhu	Matt Meyer	First Unbiased Assay of Substrate Range in Asymmetric Reactions