

Name	TITLE	Major/Concentration	Advisor	Grad
Archer, H. M., Sekercioglu, C. H. Mendenhall, C.	EFFECTS OF FOREST FRAGMENTATION ON THE PREVALENCE OF BLOOD PARASITES IN BIRDS OF COSTA RICA	??	Dr. Ravinder Sehgal	g
Sindy Liao	Biochemical characterization of styrene oxide isomerase from <i>Pseudomonas putida</i> S12	Biochemistry	Dr. George Gassner	g
Sha Huang	Hydrolysis of a-Halo and a-Cyano Pyridinium: A Model for Orotidine 5'-Monophosphate Decarboxylase (OMP Decarboxylase)	Biochemistry	Dr. Weiming Wu	g
Marilyn Walton and Devi Paulvannan	HPV	Biology	Dr. Lily Chen	g
Tina Cheng	Role of a pathogenic fungus in the decline of plethodontid salamanders in Mexico and Guatemala	Biology	Dr. Vance Vredenburg	g
Jacquelynn R. Robinson, Ukina Sanford, and Laura N. Bull	Fic1-Deficient Mouse as a Model of Cholestatic Disease MBRS-RISE Grant: R25-GM59298	Cell & Molecu	Dr. Frank Bayliss	g
Cathy Samayoa	Feasibility of Using Saliva as a Biospecimen for Breast Cancer Screening in Women	Cell and Molec	Dr. Leticia Marquez-Magana	g
David Newstrom	The Role of Nkx2-1 in the Development of the Ventromedial Hypothalamus	Cell and Molecular Biology	Dr. Carmen R. Domingo	g

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Henry Hunter	Confirmation of dicistronic gene structures in several Drosophilid species	Cell and Molecular Biology	Dr. Chris Smith	g
Michael Yee	Global analysis of histone subtype composition in <i>C. elegans</i> sperm using MudPIT mass spectrometric analysis	Cell and Molecular Biology	Dr. Diana Chu	g
Remy Vianney Binder, Seung Jong Lee, and Dr. Wilfred Denetclaw	<u>Ectoderm Cells Express Primary Cilium and Mechanotransduce Calcium and Nitric Oxide Signals</u>	Cell and Molecular Biology	Dr. Wilfred Denetclaw	g
Seung Jong Lee	Dynamic patterns of ectodermal NO and Ca ²⁺ levels regulate NO signaling activities to the paraxial mesoderm for myogenesis in chicken embryos	Cell and Molecular Biology	Dr. Wilfred Denetclaw	g
Shani Chapman	Identification of a second site suppressor of <i>cdc24</i> in <i>Schizosaccharomyces pombe</i>	Cell and Molecular Biology	Dr. Sally Pasion	g
Tyra McCray, Zeng-Hui He, PhD, Hongyun Tong, Xuefeng Sun, Gigi Yen, Huan Jin, Amy Sheldon, Colin Leasure, PhD	Genetic Dissection of UVB Signaling Pathways in <i>Arabidopsis thaliana</i>	Cell and Molecular Biology	Dr. He	g
Vanessa Aguilera	A Need for New Therapies to Treat Myocardial Infarction through Exploration of Cardioprotective elements found in Bone Marrow Stem cells and IL-15.	Cell and Molecular Biology	Dr. Carmen R. Domingo	g
Andrew Core	<i>The Effects of a Newly Discovered Parasite (<u>Apocephalus borealis</u>) on the Health of Honey Bee Colonies</i>	Conservation Biology	Dr. John Hafernik	g

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Meghan Bishop	Diet and food webs of the California red-legged frog (<i>Rana draytonii</i>)	Conservation Biology	Dr. Robert Drewes	g
Brennan Wenck	<i>Biodiversity and Phylogeny of Marasmuis of Nor Yungas, Bolivia</i>	Ecology and Systematics	Dr. Dennis Desjardin	g
Jenny Carlson	Prevalence of Blood Parasites in the Avifauna of Socorro Island , México.	Ecology and Systematics	Dr. Ravinder Sehgal	g
Julie S. Miller	The relationship between maternal care and egg cannibalism in a colonial earwig <i>Anisolabis maritima</i> (Dermaptera: Anisolabididae)	Ecology and Systematics	Dr. Andrew G. Zink	g
Natalie Reeder	Is the Pacific chorus frog carrying a deadly fungus?	Ecology and Systematics	Dr. Vance Vredenburg	g
Criseyda Martinez	Molecular Basis for Host Specificity in Avian Malaria	Microbiology	Dr. Ravinder Sehgal	g
Hope M. Gray, N. Pinel, M.N. Ashby, C.B. Walker, H. Urakawa, C.W. Schadt, L. Sayavedra-Soto, and D.A. Stahl	Genomic analysis of the ammonia oxidizing archaeon <i>Nitrosocaldus yellowstonii</i> HL72	Microbiology	Dr. Jose R de la Torre	g
Michelle Wray	CD8+ Cell Noncytotoxic Antiviral Response Suppresses HIV-1 Transcription in Primary Monocyte-Derived-Macrophages	Microbiology	Dr. Jay Levy and Dr. Frank Bayliss	g

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Cleopa Omondi, Sayed Miry, and Louie Vermos	Adenosine regulates development during tissue repair	Neurobiology	Dr. Megumi Fuse	g
Andrew Carriman	Characterizing ecdysis behavior in the stick insect, <i>Carausius morosus</i>	Physiology and	Dr. Megumi Fuse	g
Anita Yip	Effects of Food Availability on Neurogenesis in the Tobacco Hornworm, <i>Manduca sexta</i>	Physiology and	Dr. Chris Moffatt	g
Sabina Bera and Jared Geibig	CHARACTERIZING CGMP REGULATION DURING ECDYSIS IN <i>MANDUCA SEXTA</i>	Physiology and	Dr. Fuse	g
Kensuke Yamamoto, Jasmin Kristianto, and Stephanie Wood	S-Nitrosylation of soluble guanylate cyclase	Biochemistry	Dr. Nancy Counts Gerber	g
Lea Lough, Kay Saw, Benjamin Lintner, and Ignacio López-Peña	Effect of the Heme Pocket Environment on the Nitrite Reductase Activity of SW Myoglobin	Biochemistry	Dr. Raymond Esquerra	g
Lei Zhang	The significance of second shell interaction in serine protease	Biochemistry	Dr. Teaster Baird, Jr	g
Yogita patil	Remediation of nitroaromatic pollutants by reduction and surface adsorption	Chemistry	Dr. Bruce Manning	g

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Stephanie M. Wood	Conformational Studies of Soluble Guanylate Cyclase Using Time-Resolved Fluorometry	Biochemistry	Dr. Nancy Counts Gerber	g
Shirin M. Usmani and Diana Mars	Low-temperature fabrication of anatase films with tunable thickness and morphology	Chemistry & B	Dr. Andrew S Ichimura	g
Raniel R. Alcantara	Exploring Indirect Hydrophobic Interactions In Trypsin	Chemistry and	Dr. Teaster Baird, Jr.	g
Jinesh Lalan	Cloud Computing for Data Intensive Application	Computer Scie	Dr. Dragutin Petkovic, Mike Wong, and Dr Ljubomir Buturovic	g
John Collins	Three Dimensional Reconstruction of knots and knotted particles	Computer Scie	Dr. Javier Arsuaga	g
Marc Sosnick	Efficient Finite Difference-based Sound Synthesis using GPUs	Computer Scie	Dr. Bill Hsu	g
Pracheer Sehrawat, Gemma Lee Fu-Sun, Mandar Modgi, and Trevor Blackstone	Academic Bioinformatics Software for Stanford University	Computer Scie	Dragutin Petkovic, Professor Russ Altman, and Mike Wong	g
Saurabh Subodh Gupte	Regular Spatio-Temporal Patterns in Multiple Protein Folding Trajectories	Computer Scie	Dr. Hui Yang	g

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Tingting Sun	Automatic Lesson Planner	Computer Science	Dr. Kaz Okada and Dr. Susan Courey	g
Gurdeep Singh, Sanket Parab, Ravi Soni, and Srijita Shrestha	e-TAT (Electronic Teamwork Assessment Tool)	Computer Science	Petkovic, Prof James Wong, and Mr. Gary Thompson	g
Niranjan Timilsina	DEVELOPMENT OF AN APPLICATION FOR CELL QUANTIFICATION	Software Engineering	Dr. Kaz Okada	g
Trevor Gokey	The role of the C42-C58 disulfide bridge in a catalytically active threonine protease variant by molecular dynamics simulation.	Computer Science	Dr. Anton Guliaev	g
Anuj Pushkarna	<i>Reliability Analysis of Power Gated SRAM under Combined Effects of NBTI and PBTI in Nano-Scale CMOS</i>	Electrical Engineering	Dr. Hamid Mahmoodi	g
Gregory S. Kielian, Di Lan, Xiao Wang, Tao Yu, and Shiyu Zhou	Versatile Networkable Robot	Embedded Electronics	Dr. Seapahn Megerian	g
Jia Huang	Intelligent Vehicle Mobility Tcl Script Generator for NS-2 Simulation	Engineering	Dr. Hamid Shahnasser	g
Avisa Tehrani	Anonymous Communication in Mobile ad hoc networks	Engineering	Dr. Shahnasser	g

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Bitra Nosratieh	Convexity of Domains of Best Approximation	Mathematics	Dr. Yitwah Cheung	g
David Bangor	A maximum principle for the weighted Bergman space	Mathematics	Alex Schuster	g
Dido Salazar-Torres	Generalized Order and Chain Polytopes	Mathematics	Thomas Bliem and Federico Ardila	g
Eric Distad	The Importance of the Leadoff Batter	Mathematics	????	g
Eric Douglas Miranda	Graph Operations in Tropical Geometry	Mathematics	Dr. Serkan Hosten	g
Juliet Portillo, Rob Scharein, and Dr. Javier Arsuaga	Invariance of the Sign of the Average Space Writhe of Free and Confined Knotted Polygons	Mathematics	Mariel Vazquez	g
Nguyen Le	A Lattice Point Enumeration Approach to Partition Identities	Mathematics	Matthias Beck	g
Ralf Youtz	Toric ideals of small matroids are generated in degree 2	Mathematics	Serkan Hosten	g

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Tim Wertz	Interpolation in the Unit Disk	Mathematics	Alex Schuster	g
Zoe Talbot	An exploration of BFACF entropy & biological applications of self-avoiding polygons in the simple cubic lattice	Mathematics	Dr. Yitwah Cheung, Dr. Rob Scharein, and Dr. Mariel Vazquez	g
Andrew Herrmann	??	Mathematics	Dr. Matthias Beck	g
Jonathan Terhorst	Effect of Coal-Fired Power Generation on Visibility in a Nearby National Park	Mathematics? ?	Serkan Hosten	g
Daniel Hernandez	Optical Tapping and Manipulation	Physics	Dr. Chen	g
Michelle Krok	The impact of a 5E Conceptual Change Approach to Astronomy Education	Physics & Astr	Dr. Adrienne Cool and Dr. Kimberly Tanner	g
Polin Yadak and Kazue Matsuyama	Photonic bandgap material with quasi-crystalline symmetry	Physics and Astronomy	Dr. Weining Man	g
Mie A. Lansang	Refining the Catalytic machinery of an Engineered Threonine Protease		Dr. Teaster Baird, Jr.	g

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Aziz Mtaoua	Photodynamic Therapy of Cancer Diseases Synthesize of Methoxy L-lysylpyropheorbide-a and Its Zinc Metal	??	Dr. Uschi Simonis	u
Ariel Aveo and Tyson Buis	Ecdysis Triggering Hormone Induces Fictive Pre-ecdysis and Ecdysis in Intermolt Period of Tobacco Hornworm Nervous Systems	???	Dr. Megumi Fuse	u
Yadiel Kinfu	Increased Oxidative Stress In People with Diabetes: The effect of glycation on the kinetics of the adult human hemoglobin	Biochemistry	Dr. Raymond Esquerra	u
Armbien Sabillo and Vanja Krneta-Stankic	Spatial Patterning of Muscle Fibers in <i>Xenopus laevis</i>	Biology	Dr. Carmen R. Domingo	u
Camilla Teng	Role of Ror1 in the Developing Chick Neural Tube	Cell and Molec	??	u
Romica Kerketta	Loss of membrane rafts deregulates intracellular free calcium in C2C12 myoblasts/myotubes	Cell and Molec	Dr. Wilfred Denetclaw	u
Shivalee Gujarathi and Seung Jong Lee	<i>FM 4-64 dye shows dynamic changes in membrane potential and cellular death in the ectoderm cells of Chick embryos</i>	Developmental	Dr Wilfred Denetclaw	u
Anthony Trinh	Synthesis of Trimethyllysine-Substituted Pheophorbide-a Silicon Complex	Biochemistry	Dr. Uschi Simonis	u

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David Canio	Determining the Kinetic Mechanism of Styrene Monooxygenase Reductase	Biochemistry	Dr. George Gassner	u
Ignacio López-Peña and Jasmine Kristianto	Determining the conformational effects caused by CO and YC-1 binding to soluble guanylate cyclase	Biochemistry	Dr. Nancy Gerber and <u>Dr. Raymond Esquerra</u>	u
Matt Gallagher	Development of a Broad-Based Assay to Measure Flavin Transfer Efficiency in the Styrene Degradation Pathway	Biochemistry	Dr. George Gassner	u
Megan Montgomery, Phil Swigart, Paul Simpson, Marietta Panningbatan, and Bat Myagmar	Effects of Beta-Blockers on Alpha 1-Adrenergic Receptor Signaling in Mouse Cardiac Myocytes	Biochemistry	Dr. Teaster Baird, Jr	u
Natalie Davis	Comparison of Deuterium Monoxide and Hydrogen Monoxide Solvent Effects on Different Species of Myoglobin Ligand Rebinding After CO Photolysis	Biochemistry	Dr. Raymond Esquerra	u
Patience Adagba	Analytical protocols for Determination of Phthalates in Toys.	Biochemistry	Dr. Pete Palmer	u
Sayeeda P. Najibi	Introducing Novel Substrate Selectivity into Trypsin through Redesign	Biochemistry	Dr. Teaster Baird, Jr	u
Terrence O'Brien	Aryl-Heteroaryl Ureas (AHUs) Based on 4-Aminoquinaldine as Inhibitors of the Insulin-like Growth Factor Receptor	Biochemistry	Dr. Marc Anderson	u

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Viviana Cervantes	A contribution to the fight against cancer: Synthesis and characterization of Trimethyllysine-substituted In(III)-Pheophorbide-a in the quest for a superior Photodynamic Therapy photosensitizer	Biochemistry	Dr.Uschi Simonis	u
Damon Robles and Kay Saw	Nitrite Reductase Activity of Glycated Hemoglobin	Chemistry	Dr. Raymond Esquerra	u
Matthew Sanchez	Fe analysis of Beer via Hand held XRF using Cation Exchange Resins	<i>Chemistry</i>	Dr. Pete Palmer	u
Diana Mars	Thin films of Iron II Disulfide (Pyrite) for Photovoltaic Applications	Physical Science	Andrew Ichimura	u
Quynh Nguyen	Serine Protease: Trypsin Variant F41A	Biochemistry	Dr. Teaster Baird, Jr and Mie Lansang	u
Shi Choong	Protein dynamics using computational chemistry approach. Structural features of the wild type serine protease	Chemistry and	Dr. Anton Guliaev	u
Van Pham	Using a Yeast Screening to identify SITRT inhibitors from marine-derived actinomycetes	Chemistry and	Taro Amagata	u
Reza Hashemzade, Alisina Oshaghi, Joey Aduviso, Jose Garcia, Leyla Pirnia, and Cristina Aragon	Woodbridge Design	Civil and Environmental Engineering	Dr. Timothy D'Orazio and Dr. Cheng Chen	u

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Abdirahman Adam, Jennifer Smith, Jennifer Tran, Johnny Hoang, Wubet Woldemichael and Yue Ming Huang	Foundation Designs	Civil Engineer	Dr. Timothy D'Orazio	u
James O'Connell, Joshua Tse, Colby Lum, Tony Cheung, and Nik Favretto	ENGR697 Geotechnical Group #4	Civil Engineering	Dr. Timothy D'Orazio	u
Patrick Ledesma, Chor Sum Wong, George Khaelilieh, and Hamed Khanzadran	SFSU Timber Truss Bridge	Civil Engineering	Professor Chen	u
Samuel Fitzer Chris O'Gara Chris Pioli Jonathon Tai Marissa Silvas John Crain Julian Jaramillo Nadia Berumen Lester Aquino and Cindy Lu	National Student Steel Bridge Competition	Civil Engineering	Dr. Cheng Chen	u
Steven Chua, Gloria Fernandez, David Dip, Chris Kekicheff, and Diana Loie	BioRadical BioSand Filter: An Improved Performance Delivery System for Safe Drinking Water	Civil Engineering	Dr. John Dracup	u
Tony Tam, Shiu Mak, Kakiu Ching, Ailin Liu, Jiayi Fu, Nicole Salde, and Shu Feng Yu	2010 National Timber Bridge Competition	Civil Engineering	Dr. Cheng Chen	u
Jose Emerson Malca Gutierrez and Hemel Yahya	Cardio Vest	Computer Engineering	Larry Klingenberg	u
Shawn Yee	Project R.A.M.T.A.P.	Computer Engi	??	u

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Michael Arce, David Chin, Cianan Duncan, Javier Fernandez, and John Wudyts	Search Rover	Electrical and Mechanical Engineering	Dr. Kwok-Siong Teh	u
Tim O'Keefe, Brock Roland, and Michael McIntyre	MIDI Actuated Robotic Vibraphone	Electrical and Mechanical Engineering	Dr. Tom Holton	u
Andy Kwan and Richard Solomon	Hybrid Radio Control Car	Electrical Engi	Dr. Tom Holton	u
Billy Hui and Aung Tint	Wireless Temperature Display and Control System	Electrical Engineering	Dr. Tom Holton, Dr. George Anwar, and Dr. Hao Jiang	u
Fersan Winardja and William Diep	An Externally Controlled Magnetic Disc Screw Device	Electrical Engineering	Dr. Tom Holton, Dr. Kwok-Siong Teh, and Dr. Hao Jiang	u
Hezekiel Randolph	USB TestBench	Electrical Engi	Dr. Tom Holton	u
John Laberinto, Cassidy Louie, and Jeff Constantino	Audio Switcher	Electrical Engi	Dr. Tom Holton and Dr. Hao Jiang	u
Farah Soltane and Thomas Pedersen	??	Engineering	prof. ozer and Dr. Tom Holton	u

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John Wudyts, Shifteh Einollahzadeh, Andrew Damele, Jeremy Martinez, Haris Alijagic, Laith Alawad, Hemel Yahya, and Emerson Malca	Powered Lazy Boy	Engineering	Dr. George Anwar and Dr. Dipendra Sinha	u
My-Linh Nguyen, Christine Hunt, Nick Kim, Lindsay Green, Eoin Sheeran, Alvin Piano, James Esoimeme, Jose Preciado, and Julie Leong	Concrete Canoe	Engineering	Dr. Cheng Chen and Dr. Timothy D'Orazio	u
Rochelle Desamito, Judith Krischke, and Richard Wang	Vertical Axis Wind Turbine	Engineering	Dr. Kwok-Siong Teh	u
Salim Saikaly, Laith Alawad, and Muataz Hamad	Mechanical Photosensory Patio Umbrella	Mechanical and Electrical Engineering	Larry Klingenberg and Dr. Tom Holton	u
Andrew Navarro and Christian Fernandez	Drink Mixer	Mechanical Engineering	Dr. Tom Holton	u
Andrew, Kayvon, Kevin Gee, and Prasith Sip	Race Car	Mechanical Engineering	Dr. Kwok-Siong Teh	u
Brandon Leaupepetele and Hieu Vo	Automatic Basketball Returner	Mechanical Engineering	Dr. Dipendra Sinha and Dr. Kwok-Siong The	u
Curtis Hilger and Joachim Pedersen	Closed-Loop Feedback Control of a High Frequency Inductive Heating System For Nanomaterial Synthesis	Mechanical Engineering	Dr. Kwok-Siong Teh	u

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Timothy Sullivan, Nicolas Dibenedetto, and Gandiva Moss	Switchable V.O./V.C. Prosthetic Hand	Mechanical En	??	u
Alex Pankov	Genomic Signatures Associated with Recurrence in Breast Cancer Patients	Mathematics	Dr. Javier Arsuaga	u
Mousa Rebouh	Using the mathematics of tangles to study the mechanism the cell employs to maintain genetic stability	Mathematics	Mariel Vasquez	u
Alexandra Miller	Beam Reflection by Negative Defects in Photonic Lattices	Physics	Dr. Zhigang Chen	u
Abigail Elisabeth Reiss	Visible-Wavelength Integrated Spectroscopy of Binary Asteroids	Astrophysics	Dr. Adrienne Cool and Dr. Franck Marchis	u
Kazue Matsuyama and Polin Yadak	Non-Crystalline Photonic BandGap Material Study	Physics and As	Dr. Weining Man	u