

Team Members	TITLE	Major/Concentration	Dep	Under	Advisor
Allegra Briggs, Dr. Sarah Cohen, and Dr. Wim Kimmerer	AN INTRODUCED COPEPOD IN SF ESTUARY: GENETIC DIVERSITY IN A RECENT INVASION	Marine Biology	Biology	graduate	Dr. Wim Kimmerer
Amanda del Rosario, Huy Ngo, and Dave Joun	WHAT ARE THE LEARNING STYLES OF PRE-MEDICAL STUDENTS IN LOWER AND UPPER DIVISION SCIENCE COURSEWORK?	Microbiology	Biology	Graduate	Dr. Jennifer Breckler
Anya P. Burdick and Dr. Katharyn E. Boyers	CONTROL OF LEPIDIUM LATIFOLIUM IN SAN FRANCISCO BAY TIDAL WETLAND	Conservation Biology	Biology	Graduate	Dr. Katharyn E. Boyers
Ari Akerstein	SIMULATING RAD52 REPAIR PROTEIN KINETICS IN RESPONSE TO DNA DOUBLE STRANDED BREAKS	Cell and Molecular Biology	Biology	Graduate	Dr. Javier Arsuaga
Arianna Tamvacakis	THE ACTIONS OF ECDYSIS TRIGGERING HORMONE IN INTERMOLT LARVAL INSECTS	Physiology and Behavior Biology	Biology	Graduate	Dr. Megumi Fuse
Daniel Bravo and Natasha Liu	THE ANTI-OXIDANT GLUTATHIONE IS SYNTHESIZED IN SACCHAROMYCES CEREVISIAE IN RESPONSE TO SALINE STRESS	Cell and Molecular Biology	Biology	Graduate	Dr. Robert Ramirez
Emily Merchasin and Dr. Megumi Fuse	SENSITIZATION OF DEFENSIVE RESPONSES INDUCED BY NOXIOUS STIMULI IN THE HORNWORM, MANDUCA SEXTA	Physiology and Behavioral Biology	Biology	Graduate	Dr. Megumi Fuse
Hani El Shawa and Dr. Megumi Fuse	THE ACTIONS OF ECDYSIS TRIGGERING HORMONE ON THE VENTRAL NERVE CORD DURING ECDYSIS IN THE TOBACCO HORNWORM, MANDUCA SEXTA	Physiology and Behavioral Biology	Biology	Graduate	Dr. Megumi Fuse
Hyunsoon Kang, Dr. Sophie Le Pogam, Sonal Rajyaguru, Sharon Jiang, and Dr. Nick Cammack	CHARACTERIZATION OF 2-C-METHYL ADENOSINE AND 2-C-METHYL CYTIDINE USING THE HCV SUBGENOMIC REPLICON	Biomedical Laboratory Science	Biology	Graduate	Dr. Lily Chen and Dr. Isabel Najera (Roche)
Jeff Schinske and Dr. Eric Routman	INCIPIENT SPECIATION IN THE DIAMOND TURBOT (<i>PLEURONICHTHYS GUTTULATUS</i>)	Ecology and Systematic Biology	Biology	graduate	Dr. Eric Routman

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Joanna Lipinski	PREDICTION OF PROTEIN-LIGAND INTERACTIONS USING COMPUTATIONAL MODELS OF ACTIVE SITES	Physiology and Behavioral Biology and Computing for Life Sciences	Biology	Graduate	Dr. Rahul Singh and Dr. Jonathon Stillman
Karendip Braich	ATF3 REPRESSION OF INTERFERON BETA	Cell and Molecular Biology	Biology	Graduate	Dr. Steve Weinstein
Kristen Andreatta	INVESTIGATION OF PRES2 MUTATIONS AS EARLY CLINICAL MARKERS FOR DEVELOPMENT OF SEVERE LIVER DISEASES IN CHRONIC HEPTATIS B INFECTION	Biomedical Laboratory Science	Biology	graduate	Dr. Joe Romeo
Martin Olson and Rachel Hertog	A FOOD WEB MODEL OF THE SF BAY ECOSYSTEM TO UNDERSTAND THE IMPACT OF INVASIVE SPECIES	Marine Biology	Biology	Graduate	DR. PETER ROOPNARINE
Mimi Ly	DECREASING ACTIVATION TRANSCRIPTION FACTOR 3 PROTEIN LEVELS INCREASES INTERFERON-BETA TRANSCRIPTION IN MURINE MACROPHAGES	Cell and Molecular Biology	Biology	Graduate	Dr. Steve Weinstein
Molly Klein-McDowell, Andrei Goga, Chris Benz, Paul Yaswen, Dr. Koei Chin and Joe W. Gray	MICRORNA EXPRESSION PROFILING IN HUMAN BREAST CANCER CELL LINES	Cell and Molecular Biology	Biology	Graduate	Dr. Leticia Marquez-Magana and Dr. Koei Chin (UCSF)
Pedro Morgado, Misha Leong, and Theresa Shelton	PRESIDIO NATIONAL PARK SPIDER BIODIVERSITY ASSESSMENT	Conservation Biology	Biology	Graduate	Dr. John Hafernik
Rachel Hertog and Dr. Peter D. Roopnarine	BIVALVE MORPHOLOGY AND COMMUNITY STRUCTURE IN THE LATE MIOCENE DOMINICAN REPUBLIC	Ecology and Systematic Biology	Biology	Graduate	Dr. Peter D. Roopnarine
Rachel Kadzik, Tiffany Barnes, and Lisa Galli	PROLIFERATIVE ROLES FOR PAX3 AND PAX7 IN THE DEVELOPING CHICK SOMITE	Cell and Molecular Biology	Biology	Graduate	Dr. Laura Burrus
Rebecca Fulop	DO YOU KNOW YOUR BRAIN? UNDERSTANDING NOVICES' VS. EXPERTS' CONCEPTIONS ABOUT LEARNING AND MEMORY	Cell and Molecular Biology	Biology	Graduate	Dr. Kimberly Tanner

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Roberto M. Barrozo	TRANSCRIPTIONAL REPRESSOR ATF3 BINDS TO THE IFN-B PROMOTER IN MACROPHAGES	Cell and Molecular Biology	Biology	Graduate	Dr. Steve Weinstein
Shaun Baesman	ANAEROBIC GROWTH BY BACTERIA ON TELLURIUM OXYANIONS	Microbiology	Biology	Graduate	Dr. Ed Carpenter
Tara Cornelisse	FACTORS AFFECTING MICROHABITAT SELECTION BY THE TIGER BEETLES CICINDELA HIRTICOLLIS AND C.OREGONA (COLEOPTERA: CICINDELIDAE).	Conservation Biology	Biology	Graduate	Dr. John Hafernik
Tobias Sayre	PREDICTING CIS-ACTING ELEMENTS WITH BIOINFORMATIC METHODS	Cell and Molecular Biology	Biology	Graduate	Dr. Zheng-Hui He
Wendy Rosenthal	MYOTOME PRECURSOR CELL SPECIFICATION AND SOMITIC MYOTOME FORMATION INHIBITED BY LIPID RAFT DISRUPTION IN CHICKEN EMBRYOS	Cell and Molecular Biology	Biology	Graduate	Dr. Wilfred Denetclaw Jr.
Yurixsa Martinez, Katie Sanders, and Marina Meyerzon	ANALYSIS OF THE INTERACTIONS BETWEEN WNT-3A AND WNT-5A/5B SIGNALING PATHWAYS DURING CHICK DEVELOPMENT	Cell and Molecular Biology	Biology	Graduate	Dr. Laura Burrus
Chris Cornell	DEVELOPMENT OF NOVEL ANTI-MALARIAL COMPOUNDS THAT TARGET THE P. FALCIPARUM HEAT SHOCK PROTEIN ENZYME	Chemistry	Chemistry and Biochemistry	Graduate	Dr. Cliff Berkman
Georgi Diankov and Dr. Andrew S. Ichimura	ALKALI-METAL DOPED, NANOSCALE ZEOLITE FILMS AS POTENTIAL OPTOELECTRONIC SENSORS	Chemistry	Chemistry and Biochemistry	Graduate	Dr. Andrew S. Ichimura
Jovilynn Olegario	SELENATE REDUCTION BY NANOMETER SCALE ZEROVALENT IRON PARTICLES	Chemistry	and Biochemistry	Graduate	Dr. Bruce A. Manning
Lenin Parrales, Meden Isaac, and Dr. Ursula simonis	SYNTHESIS OF NOVEL DI-SUBSTITUTED TETRAPHENYLPORPHYRINS AS POTENTIAL AGENTS FOR PHOTODYNAMIC THERAPY OF CANCERS	Chemistry	Chemistry and Biochemistry	Graduate	Meden Isacc

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Russ Jensen, Mike Minton, and Chris Bernt	CONFORMATIONAL CHANGES OF NEURONAL NITRIC OXIDE SYNTHASE AS A FUNCTION OF SUBSTRATE AND COFACTOR USING NANOSECOND TIME RESOLVED ABSORPTION SPECTROSCOPY	Biochemistry	Chemistry and Biochemistry	Graduate	Dr. Raymond Esquerra
Anupama Sharma	ONLINE WEB PAGE ALBUM	Computer Science	Computer Science	Graduate	Dr. Dragutin Petkovic
Arturo Flores, Lala Motlhabi, Rocco Varela, and Elinor Velasquez	NOVEL BAYESIAN NETWORK EVALUATION ALGORITHM FOR DISCOVERING GENE REGULATORY	Computer Science	Computer Science	Graduate	Dr. Frank Bayliss, Dr. Hui Yang, Dr. Ilmi Yoon, and Mike Wong
Ben Dalziel	MINING TEMPORAL PLACENTAL MICROARRAY DATA	Computing for Life Sciences	Computer Science	Graduate	Dr. Hui Yang
Emmanuel R. Yera	GENOMEXPLORER: GENOMIC DATA VISUALIZATION	Computing for Life Sciences	Computer Science	Graduate	Dr. Stanislaw V. Voinik (UCSF) and Dr. Collin Collins (UCSF)
Lin Han	PROTEIN STRUCTURAL ANALYSIS: REALIZING AN AUTOMATIC MAPPING	Computing for Life Sciences	Computer Science	Graduate	Dr. Hui Yang
Robert Bierman	MACE: A SIMPLE ALGORITHM FOR LOSSLESS COMPRESSION OF MICROARRAY IMAGES WITHOUT SPOT SEGMENTATION	Computer Science	Computer Science	Graduate	Dr. Rahul Singh
Scott Bishop	DENSITY-BASED CLUSTERING OF OPTICAL MOTION CAPTURE DATA	Computer Science	Computer Science	Graduate	Dr. Ilmi Yoon and Dr. Kate Hamel
Akili Anderson	PROFILING OF BIOINFORMATICS APPLICATIONS FOR RECONFIGURABLE COMPUTING SYSTEMS	Electrical Engineering	Engineering	Graduate	Dr. Ying Chen
Donovan Cheuk	NEW METHODS TO MULTICARRIER MODULATION	Electrical Engineering	Engineering	graduate	Dr. Todor Cooklev
Matt Lee	PARAMETRIC STUDY ON THE INFLUENCES OF THE SOIL-FOUNDATION-STRUCTURE-INTERACTION ANALYSIS ON A REINFORCED CONCRETE BRIDGE BENT	Civil Engineering	Engineering	Graduate	Dr. Tim D'orazio

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Rajani Kuchipudi	STRAIN SILICON OPTIMIZATION FOR LOGIC AND MEMORY IN NANO-SCALECMOS.	Computer Engineering	Engineering	Graduate	Dr. Hamid Mahmoodi
Tim Le	COMPARISON OF UBC 1997 AND IBC 2006 USING STEEL BRACED FRAMES AND STEEL MOMENT FRAMES	Civil Engineering	Engineering	Graduate	Dr. Wenshen Pong, and Dr. Norm Owen
Vishwanadh Tirumalshetty	CLOCK GATING AND NEGATIVE EDGE TRIGGERING FOR ENERGY RECOVERY CLOCK	Electrical Engineering	Engineering	Graduate	Dr.Hamid Mahmoodi
Beth Zygielbaum	EXPLORING EARTH-LIKE EROSION MECHANISMS ON A FROZEN MOON	Geology	Geosciences	Graduate	Dr. Leonard Sklar
Brian Fuller	FEEDBACKS BETWEEN BIOTIC AND ABIOTIC INFLUENCES ON TRAVERTINE DEPOSITION, FOSSIL CREEK, ARIZONA	Geology	Geosciences	Graduate	Dr. Leonard Sklar
Jeff Hansen	QUANTIFYING BEACH RESPONSE TO EPISODIC LARGE WAVE EVENTS, AN EMPIRICAL PREDICTIVE MODEL, OCEAN BEACH, SAN FRANCISCO, CA	Geology	Geosciences	Graduate	Dr. Newell Garfield
Jill Marshall	PREDICTING THE GRAIN SIZE DISTRIBUTION SUPPLIED TO CHANNELS	Geology	Geosciences	Graduate	Dr. Leonard Sklar
Johnathan Brown	AN OPTICAL CHARACTERIZATION OF SAN FRANCISCO BAY WATER	Applied Geosciences and Oceanography	Geosciences	Graduate	Dr. Newell Garfield
Robert Humphries	LABORATORY SIMULATION OF GRAVEL AUGMENTATION DOWNSTREAM OF DAMS: THE EFFECT OF HYDROGRAPHS ON SEDIMENT PULSE DYNAMICS	Applied Geosciences	Geosciences	Graduate	Dr. Leonard Sklar
Anastasia Chavez and Chris O'Neill	EXPLORING EHRHART QUASIPOLYNOMIAL PERIODS OF 2-D RATIONAL POLYTOPES	Mathematics	Mathematics	Graduate	Dr. Matthias Beck
Adam Garland	THE SEARCH FOR BROWN DWARF COMPANIONS AT WIDE SEPARATIONS	Astronomy	Physics and Astronomy	Graduate	Dr. Chris McCarthy

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Liliana I. Lopez and Dr. Adrienne Cool	ON THE FEASIBILITY OF DETECTING DETACHED WHITE DWARF/MAIN-SEQUENCE BINARIES IN GLOBULAR CLUSTERS	Physics	Physics and Astronomy	Graduate	Dr. Adrienne Cool
Rachel Strickler	UNUSUAL WHITE DWARFS IN THE GLOBULAR STAR CLUSTER NGC 6397: SIGNS OF STELLAR COLLISIONS?	Astronomy	Physics and Astronomy	Graduate	Dr. Adrienne Cool
Antonio Luna	ISOFORM SELECTIVE PI3-KINASE INHIBITORS IN BREAST CANCER CELL LINES	Cell and Molecular Biology	Biology	Graduate	Dr. Leticia Marquez-Magaña and Dr. David Stokoe (UCSF)
Briana McCarthy	EXPLORING UNDERGRADUATE STUDENT CONCEPTIONS OF ENVIRONMENTAL SCIENCE: WHAT ROLE DOES BIOLOGICAL KNOWLEDGE PLAY IN ENVIRONMENTAL LITERACY?	Ecology and Systematic Biology	Biology	Graduate	Dr. Kimberly Tanner
Lisa Yong Wu, Jacinda Do, Ma	PHOSPHORAMIDATE DERIVATIVES OF HYDROXYSTERIODS AS I	Chemistry	Chemistry and Biochemistr	Graduate	Dr. Marc O. Anderson and Dr. Clifford Berkman
Pamela Pablico and Huy Ngo	WHAT ARE THE LEARNING STYLES OF PREMED COMPARED TO	Chemistry and Kinesiology	Chemistry and Biochemistr	Graduate	Dr. Jennifer Breckler
Thet Oo	NETWORK MONITORING FOR SECURITY PURPOSES USING NETFLOW-BASED OPEN SOURCE SOFTWARE	Electrical Engineering	Engineering	Graduate	Dr. Hamid Shahnasser
Debbie Lee	THE METABOLIC SYNDROME: A PRECURSOR TO CARDIOVASCULAR DISEASE & DIABETES AND ADOLESCENTS - WHO'S AT RISK?	Mathematics	Mathematics	Graduate	Dr. Mohammad Kafai
Nikola Kravik, Jesse Lee, Harpreet Singh, and Oluwatoberu Thomas	5TH WHEEL	Mechanical Engineering	Engineering	Undergraduate	Dr. A.S. Ed Cheng
Allison Dias and Rocio Diaz	IDENTIFYING AN APPROPRIATE BLOOD SUGAR ASSAY FOR MANDUCA SEXTA	Physiology and Behavioral Biology	Biology	Undergraduate	Dr. Megumi Fuse
Amelia Rodelo	SALINITY TOLERANCE IN INVASIVE ASCIDIANS	Ecology and Systematic Biology	Biology	Undergraduate	Dr. Sarah Cohen

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Izhar Batth, Sannah Ladiwalla, Jared M. Greenberg, and Dr. Wilfred Denetclaw Jr.	MBC DISRUPTION OF LIPID RAFTS REVERSIBLY INHIBITS BREAST MUSCLE CELL CULTURE DIFFERENTIATION VIA NITRIC OXIDE SIGNALING	Cell and Molecular Biology	Biology	Undergraduate	Dr. Wilfred Denetclaw Jr.
Karen Berry and Natasha Chandiramani	NITRIC OXIDE REGULATION OF MYOTOME DEVELOPMENT BY LIPID RAFT CONSTITUENT NITRIC OXIDE SYNTHASE IN CHICKEN EMBRYO	Cell and Molecular Biology	Biology	Undergraduate	Dr. Wilfred Denetclaw Jr.
Lorna Watt, Brendan Colloran, Dr. Gretchen LeBuhn	EXPLAINING PATTERNS OF COMMUNITY TURNOVER IN SIERRAN BUMBLEBEE METACOMMUNITIES WITH PROJECTION MATRIX MODELING	Ecology and Systematic Biology	Biology	Undergraduate	Dr. Gretchen LeBuhn
Michael Sanchez, Franchie H. Chu, Bonnie Afonin, and Dr. Carmen Domingo	EMBRYONIC CELLS DEPLETED OF MATERNAL BETA CATENIN REMAIN COMPETENT TO DIFFERENTIATE INTO DORSAL MESODERMAL DERIVATIVES	Cell and Molecular Biology	Biology	Undergraduate	Dr. Carmen Domingo
Myra Grace A. dela Pena	CHANGES IN DIURETIC HORMONE IMMUNOREACTIVITY IN TRANSVERSE NERVES OF THE TOBACCO HORNWORM, MANDUCA SEXTA, SUGGEST A ROLE DURING ECDYSIS	Cell and Molecular Biology	Biology	Undergraduate	Dr. Megumi Fuse
Seung Jong Lee	NITRIC OXIDE DYNAMIC MOVEMENT IN EPITHELIAL AND MUSCLE TISSUE CELLS IN CHICKEN EMBRYO BY TIME-LAPSE ANALYSIS	Cell and Molecular Biology	Biology	Undergraduate	Dr. Wilfred Denetclaw Jr.
Teresa F. Reyes and Dr. Sally G. Pasion	IDENTIFICATION AND CHARACTERIZATION OF SCHIZOSACCHAROMYCES POMBE TELOMERASE RNA GENE	Cell and Molecular Biology	Biology	Undergraduate	Dr. Sally G. Pasion
Yessica Martinez, Mike Oda , Giorgio Cavigiolo, and Ethan Geiei	TRUNCATED APOA-1 LIPOPROTEIN RESULTS IN DISAPPEARANCE OF 7.8NM DISC	Cell and Molecular Biology	Biology	Undergraduate	Dr. Leticia Marquez-Magaña
Alberto Luis, Jasmin Kristianto, Sharon Woo, and Yu His	ALLOSTERIC ACTIVATION OF SOLUBLE GUANYLATE CYCLASE BY 3-(5- ¹⁴ C-HYDROXYMETHYL-2- ¹⁴ C-FURYL)-1-BENZYL-INDAZOLE	Chemistry	Chemistry and Biochemistry	Undergraduate	Dr. Nancy C. Gerber

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Brian Blank	SYNTHESIS TOWARDS A NEW DIAGNOSTIC AGENT FOR PROSTATE CANCER	Chemistry	and Biochemistry	Undergraduate	Dr. Cliff Berkman
Hanine Rafidi, Timothy Acker, Brandon Williams, and Candace Wong	BIOCHEMICAL APPROACHES USED TO STUDY THE EXTENDED SELECTIVITY OF TRYPSIN	Biochemistry	and Biochemistry	Undergraduate	Dr. Teaster Baird, Jr
Heath Kornblum and Dr. Marc Andersen	MOLECULAR DYNAMICS SIMULATION FOR THE LABORATORY	Biochemistry	Chemistry and Biochemistry	Undergraduate	Dr. Marc Andersen and Dr. Cliff Berkman
Helen Lee and Mohamad Azimi	NOVEL APPROACH FOR THE INDEPENDENT SYNTHESIS OF 2[3H]OXAZOLINONES	Biochemistry	and Biochemistry	Undergraduate	Dr. Ihsan Erden
John Sczepaniak	SEPARATION OF SPIROGRAPHS AND ISO-SPIROGRAPHS PORPHYRIN DIMETHYL ESTER ISOMERS VIA NORMAL PHASE HPLC	Chemistry	Chemistry and Biochemistry	Undergraduate	Dr. Ursula Simonis and Meden Isaac
Judy Szeto, Chris Cornell, Dr. Marc Anderson, and Dr. Cliff Berkman	PROGRESS TOWARD THE DEVELOPMENT OF RADICOL ANALOGS TO INHIBIT P. FALCIPARUM HEAT SHOCK PROTEIN ENZYME	Biochemistry	Chemistry and Biochemistry	Undergraduate	Dr. Cliff Berkman
Khin Sandi Shine, Khin Oo, Mike Minton, and Kay Saw	EFFECT OF NONENZYMATIC GLYCATION AND AGE FORMATION ON THE SECONDARY AND TERTIARY STRUCTURE OF HUMAN SERUM ALBUMIN	Biochemistry	Chemistry and Biochemistry	Undergraduate	Dr. Raymond Esquerra
May Lin	PHOSPHORAMIDATE INHIBITOR OF PROSTATE SPECIFIC MEMBRANCE ANTIGEN	Biochemistry	Chemistry and Biochemistry	Undergraduate	Dr. Cliff Berkman
Richelle Raagas and Damon Robles	EFFECT OF NONENZYMATIC GLYCATION ON THE AUTO-OXIDATION KINETICS OF ADULT HUMAN HEMOGLOBIN	Biochemistry	and Biochemistry	Undergraduate	Dr. Raymond Esquerra
Timothy Acker	INVESTIGATING THE CONTRIBUTION OF THE S1' POCKET OF TRYPSIN TO SUBSTRATE RECOGNITION	Biochemistry	and Biochemistry	Undergraduate	Dr. Teaster Baird, Jr

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Eric Gregory	GUITAR SYNTHESIZER USING KARPLUS-STRONG PLUCKED STRING SYNTHESIS	Computer Science	Computer Science	undergraduate	Dr. William Hsu
Taeil Goh and Ryan West	VISION-BASED DETECTION OF VISUALLY DISSIMILAR OBJECTS	Computer Science	Computer Science	Undergraduate	Dr. Kaz Okada
Trevor Blackstone	LINKING OF CHROMOSOMES DURING INTERPHASE	Computer Science	Computer Science	Undergraduate	Dr. Javier Arsuaga
Alex Polonsky, Jorge Corona, Daniella Dragon, Kevin Morgan, Anthony Truong, Yousef Golsorkhi, Jay Coquilla, and Jose Coto	SFSU HUMAN POWERED VEHICLE	Mechanical Engineering	Engineering	undergraduate	Dr. A.S. Ed Cheng
Anton Suryana, Karen Chan, Michael Solivan, and Ricardo Marangco	CLASS D AUDIO AMPLIFIER	Electrical Engineering	Engineering	Undergraduate	Dr. Tom Holton, Dr. Hamid Shahnasser
Babak A. Sar Ashki	DIGITAL IC DESIGN FLOW	Computer Engineering	Engineering	undergraduate	Dr. Hamid Mahmoodi
Blake Boyer, Waylan Choy, Sean Estill, and Adrian Hairrell	DESIGN OF COMPETITIVE GO-KART FRAME	Mechanical Engineering	Engineering	Undergraduate	Dr. A.S. Ed Cheng
David Kang, Shadow Moyer, Mark Ritchie, and Matt Suidan	SMALL-SCALE WIND TURBINE	Mechanical Engineering	Engineering	undergraduate	Dr. Dipendra Sinha
Donald Best III and Steven Gong	STIRLING ENGINE	Mechanical Engineering	Engineering	Undergraduate	Michael Strange
Edward Mazmanian, Luis Eguizabal, and Juan Carlos Alfaro	AUTOMATIC VIOLIN TUNER	Electrical Engineering	Engineering	Undergraduate	Dr. Tom Holton

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Eric Placido, Edward Dizon, Joseph Flores, and Willis Wong	CONTINUOUSLY VARYING TRANSMISSION (CVT) PROTOTYPE	Mechanical Engineering	Engineering	Undergraduate	Dr. A.S. Ed Cheng
Gaunt Murdock, James Bottomley , Donald Best III, Estuardo Ramirez, and Conmin Cheng	FUEL GUARD	Mechanical Engineering	Engineering	Undergraduate	Dr. A.S. Ed Cheng
Gong Ye Chen, Anthony Freggiaro, Sang Chul Lee, and Alex Rivera	ANIMAL: THE MIDI CONTROLLED PNEUMATIC DRUMMER	Mechanical Engineering	Engineering	Undergraduate	Dr. A.S. Ed Cheng
Guy Halperin, Quint Herrmann, Haislip Hayes, Adrian Gotauco, Jeff Quock, Jeremy McGee, David Hungerford, Wendy Zambrano, and Azin Zarei	STEEL BRIDGE TEAM	Civil Engineering	Engineering	Undergraduate	Dr. Norman Owen
Israel De La Cruz, Jerry Wong, Keith Fang, Yu Rong Zong, and TzeYee Tsang	SFSU-LAKE MERCED WOOD BRIDGE	Civil Engineering	Engineering	Undergraduate	Dr. Wenshen Pong
Lamont Lucas	EDINBORG	Electrical Engineering	Engineering	Undergraduate	Dr. Tom Holton
Marshall Rice, Holly Gothard, and Jesse Gwynne	R.E.A.C.H. BIOBOT	Mechanical Engineering	Engineering	Undergraduate	Dr. A.S. Ed Cheng
Paul Barradas, Dalia Corpus, Chester Gatdula, Consen Cheng, and Marc Guinto	STRAIGHT ARCH	Civil Engineering	Engineering	Undergraduate	Dr. Wenshen Pong

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Paul Bonilla, Michael Cheung, and Maria Silva	VIC: VOICE INPUT CAR	Electrical Engineering	Engineering	Undergraduate	Dr. Tom Holton
Raul Borromeo, Stacey Lee, Jason Tubon, Jasper Recidoro	LAKE MERCED WATER TREATMENT FACILITY DESIGN	Civil Engineering	Engineering	Undergraduate	Dr. Elahe Ensanni
Rodolfo Bustos, Henry Jones, Jimmy Xia, Randy Yoshimura, and Greg Zuber	MINI-MILLING MACHINE	Mechanical Engineering	Engineering	Undergraduate	Dr. Dipendra Sinha
Said Abdelwafi, Prabhjot Kaur, and Aldo Bacuzzi	THE POWER SHOE	Electrical Engineering	Engineering	undergraduate	Dr. Hamid Shahnasser and Dr. Hamid Mahmoodi
Sampson Ho, Chi Lin, and Chi kin Ho	MICROMOUSE	Electrical Engineering	Engineering	Undergraduate	Dr. Hamid Shahnasser
Steve Jain and Mikhail Levitskiy	GPS/INU GUIDED AUTONOMOUS VEHICLE	Computer Engineering	Engineering	Undergraduate	Dr. Ying Chen and Dr. Hamid Mahmoodi
Steven Gong and Donald Best III	FLASH CANNON	Mechanical Engineering	Engineering	Undergraduate	Michael Strange
Warfa Aden, Christopher McAllister, and Awni Taha	HIGH RISE FOUNDATION DESIGN	Civil Engineering	Engineering	Undergraduate	Dr. Timothy D'Orazio
Jonathan Perkins	ESTIMATING BEDROCK INCISION RATES USING COSMOGENIC RADIONUCLIDES ON STRATH TERRACE GRAVELS ALONG BULLFROG CREEK, UTAH	Geology	Geosciences	Undergraduate	Dr. Leonard Sklar
Skye Corbett	THE ROLE OF SEQUENCES OF CHANNEL-SPANNING POTHOLES IN THE TRANSIENT EVOLUTION OF A WEAKLY DISSECTED BEDROCK LANDSCAPE, HENRY MOUNTAINS, UTAH	Geology	Geosciences	Undergraduate	Dr. Leonard Sklar

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Andrew Herrmann and Nicholas Normandin	MOVEMENT OF LATTICE KNOTS AND DNA	Statistics	Mathematics	Undergrad uate	Dr. Mariel Vasquez
Juliet Portillo	AVERAGE WRITHE OF POLYGONS IN THE SIMPLE CUBIC LATTICE	Mathematics	Mathematics	Undergrad uate	Dr. Mariel Vazquez
Daniel Shuldman and Simon Huang	GUIDING LIGHT: IN PERIODIC STRUCTURES	Physics	Physics and Astronomy	Undergrad uate	Dr. Zhigang Chen