

A01 Oral Humanities, History, Literature, Philosophy 1 Friday, 9:00AM

Victims of the Stasi: Their Trauma and What the World Can Learn From It
Emily Rascon, *European Studies (Undergraduate)*

“Rape Me”: Grunge Politics of Apathy, Trauma, and Sexual Violence
Andrea Alvarado, *History (Master's)*

Technology, Transportation, and Tourism: Changing Activity Patterns at the Nathan Harrison Archaeological Site
Jamie Bastide, *Anthropology (Master's)*

Enigmatic Tins at the Harrison Site: A Foundation for an Archaeological Chemical Signature Reference Collection for 1800s-1900s Medicinal Patents.
Natalia Galeana, *Anthropology (Master's)*

Illuminating Interviews: The South African Jews in Southern California Oral History Project
Shannon Farnsworth, *Anthropology (Master's)*

A02 Oral Behavioral & Social Sciences 1 Friday, 9:00AM

Detection of brain activity associated with lexical retrieval: an analysis of intracranial electroencephalographic data in picture naming
Michelle Fung, *Speech, Language, and Hearing Sciences (Master's)*

The Relationship between Language Impairment and Cerebral Blood Flow: Evidence from Chronic Hypoperfusion in Aphasia
Noelle Abbott, *Joint Doctoral Program in Language and Communicative Disorders (Doctoral)*

Are all word relationships processed equally in our brains?
Elizabeth Anderson, *Language and Communicative Disorders (Doctoral)*

Characterizing grammatical productivity in Spanish-English bilingual children
Alicia Escobedo, *Language and Communication Disorders (Doctoral)*

Matching pictures and signs: an ERP study of the locus of the effects of iconicity and structural alignment in American Sign Language
Meghan McGarry, *Speech, Language and Hearing Sciences (Doctoral)*

A03 Oral Physical & Mathematical Sciences 1 Friday, 9:00AM

Designed Synthesis of Small Molecules Active Against Hepatitis C Virus
Kevin Walsworth, Chemistry (Doctoral)

Developments towards Total Synthesis of Lagunamide A
Monny Singh, Chemistry (Doctoral)

Nucleophilic Substitution Methodologies Towards Pharmaceutically Relevant Atropisomers
Marisel Cardenas, Chemistry (Doctoral)

Simulating the Interaction of Silver Nanoparticles with Silicon Solar Cells
Martha Zepeda Torres, Chemistry (Doctoral)

Regioselective Electrophilic Aromatic Substitution of Phenols and Anilines via Lewis base catalysis
Andrew Dinh, Chemistry (Doctoral)

A04 Oral Engineering & Computer Sciences 1 Friday, 9:00AM

Prandtl-D Aerodynamic Load and Induced Thrust Validation using Stereoscopic PIV Wind Tunnel Measurements
Bradley Zelenka, Aerospace Engineering (Master's)

Flow Visualization of Patient-Specific Right Heart Models in a Mock Circulatory Loop
Jacob Steiner, Bioengineering (Master's)

Wind tunnel testing for hydrodynamic load characterization of icosahedron-shaped coral reef arks
Mohamed Amine Abassi, Aerospace Engineering (Doctoral)

Aortic insufficiency during Heartmate3 Left Ventricle Assist Device support: a mock loop study
Vi Vu, Mechanical and Aerospace Engineering (Doctoral)

Hermeneutic Quran Classification using Machine Learning
Dhaha Nur, Big Data Analytics (Master's)

Economic Wireless Multimedia Communication QoE Modeling: A Prospect Game-Theoretic Approach
Krishna Murthy Kattiyan Ramamoorthy, Computational Science (Doctoral)

A05 Oral Education 1 Friday, 9:00AM

Collaboratively Cognitive: High School Students' Perceptions of Collaborative Problem-Solving
Al Schleicher, Education (Doctoral)

Students' Personal Concept Definitions of Linear Independence
Ernesto Calleros, *Mathematics and Science Education (Doctoral)*

Defining as an Introduction to Set Theory
Michael Foster, *Math and Science Education (Doctoral)*

Visualizing Girlhood
Darielle Blevins, *Education (Doctoral)*

Unpacking LGBTQA: Experiences and Supports for Queer Spectrum Students in Math
Matthew Voigt, *Math and Science Education (Doctoral)*

A06 Oral Biological & Agricultural Sciences 1 Friday, 9:00AM

Analyzing trophic structure of island ecosystems using stable isotopes: what is the role of nutrient subsidies from seabird nesting and foraging behavior?
Ana Gomez Ramirez, *Biology (Undergraduate)*

An integrative approach to assess the conservation status of the binationally distributed Mission Manzanita (*Xylococcus bicolor*)
Kyle Gunther, *Evolutionary Biology (Master's)*

What can Phyloregionalization tell us about Middle American Herpetofauna? Region Formation Utilizing the Evolutionary History of Reptiles and Amphibians
Dillon Jones, *Evolutionary Biology (Master's)*

An investigation of a hybrid zone using geographic cline analysis
Aubtin Rouhbakhsh, *Biology (Undergraduate)*

Metabolic Serum Profile of Three Captive Shark Species
Asha Goodman, *Joint Doctoral Program in Cellular and Molecular Biology (Doctoral)*

A07 Oral Interdisciplinary 1 Friday, 9:00AM

Sociodemographic, Psychosocial, and Behavioral Correlates of Medical Mistrust in Latino Sexual Minority Men
Isaiah Jones, *Psychology (Undergraduate)*

Sociodemographic and Behavioral Factors Associated with Students' Initiation of the MenB Vaccine During a University Outbreak

Nicholas Lucido, *Public Health (Undergraduate)*

Traditional Machismo, Caballerismo, and the Pre-exposure Prophylaxis (PrEP) Cascade among a Sample of Latino Sexual Minority Men

David Rivera, *Psychology (Undergraduate)*

"Dude, check yourself": A Quantitative Analysis of Mental Health in Masculine Same-Sex

Stetler Brown, *Communication Studies (Master's)*

Sex You Want: PrEP Campaign Messages and Safe-Sex Intention

Gumaro Sanudo, *Communication (Master's)*

Vaccination and Healthcare Mistrust Among Low Socioeconomic Minority Adults

Cassandra Wilson, *anthropology (Master's)*

A09 Poster Engineering & Computer Sciences 2 Friday, 9:00AM

Data Analysis of Passenger Counts at SDSU Shuttles Stops

Emmanuel Millan, *Civil Engineering (Undergraduate)*

Optimal Emergency Planning for Urban Drone Traffic

Kevin Ayala, *Aerospace Engineering (Undergraduate)*

Trajectory Prediction at Intersections Using Inverse Reinforcement Learning

Mohammad Sadegh Jazayeri, *Civil Engineering (Master's)*

Assessing the Safety Impact of a Narrow Automated Vehicle-Exclusive Reversible Lane on an Existing Smart Freeway

Anagha Katthe, *Civil Engineering (Transportation) (Master's)*

Developing an Intelligent Transportation Management Center (ITMC) with a Safety Evaluation Focus

Alireza Darzian Rostami, *Transportation engineering (Master's)*

Behavior modeling of drivers in the presence of automated vehicles-exclusive lanes

Aryan Sohrabi, *Computational Science (Master's)*

Python Simulation of Core Autonomous Robot Functionality and Algorithms

Onat Gungor, *Electrical and Computer Engineering (Doctoral)*

A10 Poster Interdisciplinary 2 Friday, 9:00AM

Factors Explaining High Mortality Rates Among Hispanics after Melanoma Diagnosis

Marlene Crespo, *Psychology (Undergraduate)*

Assessment of developmental toxicity from embryonic exposures to the emerging contaminant Tris(4-chlorophenyl)methanol (TCPMOH)

Julian Navarrete, *Biology (Undergraduate)*

Assessment of e-vape waste as a contaminant and hazardous waste material and creating recommendations for its proper disposal based on components of the product

Hailey Weinberg, *Environmental Science (Undergraduate)*

Relationships between digital deterrents and access to health information among older adults.

Jeffrey Jimenez, *Master of Public Health, Health Management and Policy (Master's)*

Effects of Aging on ADAS-Cog and Odor Memory Performance Between Genders

Conner Frank, *Psychology (Master's)*

Electronic Cigarette Twitter Sentiment Analysis

Karen Robinett, *Geographic Information Science (Master's)*

Secondhand Exposure Assessment to Electric and Conventional Cigarettes via Silicone Wristbands and Non-Targeted Chemical Analysis

Pamela Olguin, *Environmental Health Science (Master's)*

A11 Poster Physical & Mathematical Sciences 2 Friday, 9:00AM

Fluorescent labeling and enzyme kinetics of tricyclic cytidine nucleosides with reverse transcriptases

Julian Cizmici, *Biology (Undergraduate)*

Using Silk-like Peptides to Study Native Spider Silk Protein Assemblies

Steven Decker, *Biology (Undergraduate)*

Using CE-SELEX to evolve a ssDNA Aptamer for Nicotine Capture

Catrin Law, *Chemistry (emphasis in Biochemistry) (Undergraduate)*

Utilizing capillary coatings in capillary isoelectric focusing to exploit differences in fresh and stored red blood cells to determine blood doping.

Madison Noroña, *Chemistry (Undergraduate)*

Sensitive Detection of Heart Failure Biomarkers Using Multi-Photon Laser Wave-Mixing Spectroscopy
Kaylani Salvatera, *Biochemistry (Undergraduate)*

Thirdhand smoke- Colorimetric detection of nicotine using dyes
Arrion Smith, *Biochemistry (Undergraduate)*

The effects of acetylation mimics on isocitrate dehydrogenase 1 (IDH1)
Vinnie Widjaja, *Biochemistry (Undergraduate)*

A12 Poster Behavioral & Social Sciences 2 Friday, 9:00AM

Is Reading Attitude related to Oral Reading ability in Monolingual Vietnamese Speaking Children?
Michelle Harrison, *Speech Language and Hearing Sciences (Undergraduate)*

Grammatical Productions in Vietnamese Children using a Novel Sentence Formulation Task
Lena Pham, *Speech, Language, and Hearing Sciences (Undergraduate)*

The Relationship between Teacher-reported Proficiency and Language Ability Measures in Spanish-English Bilingual Preschoolers
Cristal Toscano, *Speech Language and Hearing Sciences (Undergraduate)*

Cross-Linguistic Activation and Interference during Naming in Bilinguals with Aphasia: An Eye-Tracking Study
Valeria Garcia, *Speech, Language, and Hearing Sciences (Master's)*

Cross-linguistic Interaction During Word Selection for Bilinguals with Aphasia: An Electroencephalography Study
Linda Nadalet, *Speech Language and Hearing Sciences (Master's)*

The Crosslinguistic Cognate Effect in Bilinguals Across the Lifespan: A Systematic Literature Review
Carmen Nguyen, *Speech-Language Pathology (Master's)*

A13 Poster Biological & Agricultural Sciences 2 Friday, 9:00AM

Catalytic Activity of tumor relevant mutant Isocitrate Dehydrogenase 1 (IDH1)
Nalani Coleman, *Biochemistry (Undergraduate)*

Analyzing, within Humans, the Presence of Crassphage: A Highly Abundant Bacteriophage Found Around the World

Julia DePillo, Chemistry-Emphasis in Biochemistry (Undergraduate)

Investigating the role of tetrabromopyrrole production in *Pseudoalteromonas luteoviolacea* on marine invertebrate metamorphosis

Iman Shaikh, Biochemistry (Undergraduate)

Untargeted Metabolomic Analysis of Performance Enhancers

Heather Vettel, Biochemistry (Undergraduate)

Kinetic and Cellular Consequences of pH on Metabolic Enzyme Activity

Lucas Luna, Biochemistry (Doctoral)

In vitro characterization of a multi-subunit *Drosophila melanogaster* I κ B kinase complex

Samantha Cohen, Biochemistry (Doctoral)

A14 Poster Behavioral & Social Sciences 3 Friday, 9:00AM

Preliminary Findings on Video-based Messaging Around Mood and Body Image

Boyu Wei, Psychology (Undergraduate)

The Longitudinal Relationship Between Sexual Satisfaction and Processing Speed in Older Men

Riki Slayday, Psychology (Undergraduate)

"Hey Google, What's a 'Vape God'?" An Analysis of Characteristics Emulated by "Vape Gods" on YouTube

Rebeca N. Navarrete, Spanish (Undergraduate)

A systematic review of the use of Intersectionality in Research on Tobacco Use among Sexual and Gender Minorities

Jezmin Afroze, Psychology (Undergraduate)

Relations between Youth Cognitive Style and Parenting Behavior

Alexandra Argiros, Psychology (Undergraduate)

Marital Quality in the Third Year of Marriage: Effects of Premarital Cohabitation, Ethnicity, and Gender

Ana Duarte, Psychology (Undergraduate)

A15 Poster Education 2 Friday, 9:00AM

Evaluation of First-Generation Status and Supplemental Instruction Attendance as Predictors for Grade Distribution

Joanna Arroyo, *Kinesiology: Pre-Physical Therapy (Undergraduate)*

Voices from the "Third Space:" Students Experience with Auto-Ethnography as Research

Reychel Robles, *English Single Subject (Undergraduate)*

Assessing Student-Created Videos

Kathryn Beckhard, *single subject mathematics (Undergraduate)*

Effects of Physical Activity on Student Behavior: When Should Schoolchildren Engage in Physical Activity?

Giannela Gonzales, *Liberal Studies (Undergraduate)*

Implementation of Ethno-Studies Curriculum in Barranquilla, Colombia: Towards Inclusivity of the Afro-Colombian Populations

Hannah Sandoval, *Latin American Studies (Master's)*

High School English Learner Desertion

Azar Robles, *Education Dual Language & English Learner: Critical Literacy and Social Justice (Master's)*

Investigating Mathematics Teachers' Knowledge of the Line of Best Fit

Kevin Pelaez, *Mathematics and Science Education (Doctoral)*

A16 Poster Behavioral & Social Sciences 4 Friday, 9:00AM

Verb Learning Strategies in Typically Developing Children

Elaine Peralta, *Speech Language and Hearing Sciences (Undergraduate)*

Examining Peer Interactions during an Intervention for Spanish-speaking Children with and without Developmental Language Disorder

Megan Douglass, *Speech Language and Hearing Sciences (Undergraduate)*

Electrophysiological Analysis of Neural Processes Underlying Verb Learning in Typical School-Aged Children

Savannah Kennedy, *Speech, Language, and Hearing Sciences (Undergraduate)*

Saving the Best for Last: A Word Final Complexity Study

Julia Moluf, *Speech, Language and Hearing Sciences (Undergraduate)*

Word Learning in Children Based on Frequency and SES Status
Amber Henmi, *Speech, Language, and Hearing Sciences (Undergraduate)*

Representation of Implicitly-learned Words in School-aged Children with and without Language Disorders
Ashley Goussak, *SLHS (Master's)*

A17 Poster Engineering & Computer Sciences 3 Friday, 9:00AM

Water Table Experiment: Interaction of a cloud of particles with a hydraulic jump
Devin Burke, *Aerospace Engineering (Undergraduate)*

Analysis of Unmanned Aerial Vehicle Imagery along the Southernmost Elsinore Fault Zone
Faith Burkett, *Environmental Geosciences (Undergraduate)*

Synthetic Jet
Elmer Carrillo, *Aerospace Engineering (Undergraduate)*

Single Barrier Discharge Plasma Actuators for Flow Control on an Aerospike Nozzle Engine
Stephen Yu, *Aerospace Engineering (Undergraduate)*

3D-printing and consolidation of 316L stainless steel powder components
Ifeanyichukwu Olumor, *Mechanical and Aerospace Engineering (Doctoral)*

Unmanned Aerial Systems: Nonlinear High-Fidelity Aeroelastic Analysis
Enrico Santarpia, *Engineering Science (Structural) (Doctoral)*

B01 Oral Humanities, History, Literature, Philosophy 2 Friday, 11:00AM

State, Sect, or Sons: Iraqi Identities as Byproducts of Sociopolitical Structures
Abdullah Haki, *Political Science (Undergraduate)*

Koi Kaleidoscope
Diana Phan, *Creative Writing (Master's)*

Othering Eastern Women in Frankenstein
Reyam Rammahi, *English and Comparative Literature (Master's)*

The German Reunification War Scare

Eugene Phillips, History (Master's)

Sugar and Spice and Women's Rights: The Historiography of US Women's Rights Groups during The Women's Liberation Movement of the 1960s to 1980

Jade Connolly-Cepurac, History (Master's)

B02 Oral Physical & Mathematical Sciences 3 Friday, 11:00AM

Constraints on the Properties of Superdense Matter from Astrophysical Observations of Neutron Stars

Kara Whitaker, Physics (Undergraduate)

Using computational modeling to predict pulmonary function in cystic fibrosis lungs

Amanda Lee, Mathematics (Emphasis in Applied Mathematics) (Undergraduate)

Improving Foreground Modeling in Searches for the 21cm Reionization Signal

Kelcey Davis, Astronomy (Undergraduate)

Ultraviolet and visible photoluminescence of aluminum-doped zinc oxide multilayered metamaterial

Bethany Campbell, Physics (Master's)

A mathematical model describing the role embryonic nutrition plays in overall growth

Ashley Schwartz, Applied Mathematics (Master's)

B03 Oral Interdisciplinary 3 Friday, 11:00AM

Role of E3 ubiquitin ligases Mindbomb and Neuralized in tissue regeneration

Madison Balagtas, Cellular and Molecular Biology (Undergraduate)

The relative timing of population growth and urban land use change – A case study of north Taiwan from 1990 to 2015

Hsiao-chien Shih, Geography (Doctoral)

Mimicking Fibrosis and Inducing Stress into iPSC-Derived Cardiomyocytes

Emily Morgan, Biology (Undergraduate)

Inhibition of enzymatic browning during protein isolation from mealworm (*Tenebrio molitor*) larvae

Alexandra Rosenbloom, Foods and Nutrition (Undergraduate)

Identifying new regulation strategies of isocitrate dehydrogenase 1

Alexandra Strom, Biology (Undergraduate)

The effect of post translational modification on isocitrate dehydrogenase 1 (IDH1)
Viraj Upadhye, *Biology (Undergraduate)*

B04 Oral Behavioral & Social Sciences 5 Friday, 11:00AM

Holding Space in Healing Ways: Rape Crisis Advocates Discursively Constructing Crystalline Resilience
Danielle Biss, *Communication (Master's)*

Navigating a Sea of the Unexpected: A Quantitative Analysis of Message Manipulation through EVT
Stephany Rojas Hidalgo, *Communication (Master's)*

"Like" Meme or Not, Sex is Important: A Quantitative Study of Sex-Positive Meme Diffusion
Laura Horton, *Communication (Master's)*

Silver Linings Breakup: A Quantitative Analysis of Social Support Received From Friends Pre- and Post-Romantic Relationship Dissolution
Courtney Meissner, *Communication Studies (Master's)*

Hispanic Students' Perceived Prejudice in the Health Care Setting
Evelyn Puga, *Communication (Master's)*

Examining Organizational Readiness Determinants Using the Consolidated Framework for Implementation Research (CFIR) Framework in FQHCs to Implement Health Promotion Programs
Sophia Rodriguez, *Master's of Public Health, Master's of Latin American Studies (Master's)*

B05 Oral Engineering & Computer Sciences 4 Friday, 11:00AM

New Generation of Multi-Modal Spinal Neural Probes for Epidural Stimulation
Rita Hanna, *Bioengineering (Master's)*

Mechanobiology of the LVAD-assisted heart
Frances Lagarda, *Bioengineering (Master's)*

Lactic Acid Neurotransmitter Detection using Functionalized Glassy Carbon Microelectrodes
Amish Rohatgi, *Bioengineering (Master's)*

Nano-SCALPEL: Nanoparticle Spinning Cutting, Ablation, Lysis in Plasma Environmental Liquid for blood clot removal
Sherwin Navindaran, *Bioengineering (Master's)*

Glass-Based Microfabrication of Rare Cell Capture Chips
Kevin Peguero-Garcia, *Mechanical Engineering (Master's)*

New Platform for Detecting Non-Electroactive Neurotransmitters – Case of Glutamate
Sandra Lara Galindo, *Bioengineering Biomaterials (Master's)*

Fabrication of Ceramic Bone Scaffolds by Solvent Jetting 3D Printing and Sintering Towards Load-Bearing Applications
Maricruz Carrillo, *Joint Doctoral Program (UCSD-SDSU) in Mechanical and Aerospace Engineering (Doctoral)*

B06 Oral Interdisciplinary 4 Friday, 11:00AM

Accurate Identification of Endangered Fairy Shrimp: It's All Coming Into Focus
Andrea Albarran, *Biology (Undergraduate)*

Development of unisexual flower by abortion in *Cylindropuntia wolfii*
Amy Orduño-Baez, *Biology with an emphasis in Ecology (Undergraduate)*

Improving plant viability using methanotrophs with *Boechera depauperata*.
Ruth Epstein, *Biology (Undergraduate)*

Ferocactus gatesii & *F. cylindraceus*
Julia Gomez, *Biology (Undergraduate)*

An In Vitro Assay to Test for Viral Proteolytic Activity on Host Proteins
Nina Barr, *Cellular and Molecular Biology (Master's)*

Development of a cell-based assay to monitor the activities of the Chikungunya Viral Capsid Protein to identify potential antivirals
Alex Escobar, *Cellular and Molecular Biology (Master's)*

What is causing the reduced seed production in *Cylindropuntia wolfii*?
Niveditha Ramadoss, *Biology (Doctoral)*

B07 Oral Health Nutrition & Clinical Sciences 1 Friday, 11:00AM

Pulsed 450 nm blue light suppresses MRSA and *Propionibacterium acnes* in planktonic cultures and bacterial biofilms
Paulina Cortez, *Biology (Undergraduate)*

Postural Control Deficits in Atypical Parkinsonism: Pilot Case Series
Kathleen Dillon, *Kinesiology - Pre Physical Therapy (Undergraduate)*

Impact of Blood Flow Restriction Training on Patellar Tendon Stiffness and Patient Outcomes- A Pilot Study of Short-Term Effects
Freddy Gonzalez, *Kinesiology Pre PT (Undergraduate)*

Imposed Expiratory Resistance and Pulmonary Function in Young Healthy Volunteers
Monica Bari, *Exercise Physiology (Master's)*
B08 Oral Interdisciplinary 5 Friday, 11:00AM

Hands on Exploration of Air Pollution in Three Regions in India: Agra, Delhi, and Odisha
Harmit Chima, *Statistics with an emphasis in Actuarial Science (Undergraduate)*

Microfabrication and Characterization of an On-chip Reference Electrode for Neural Probes
Marina Buezo, *Bioengineering (Master's)*

A comparison of oral hygiene behaviors among Mexican-origin, young adult men and women
Melissa Yu, *Health Promotion and Behavioral Science (Master's)*

Assessing Marine Endocrine Disrupting Chemicals in the Critically Endangered California Condor: Implications for Reintroduction to Coastal Environments
Margaret Stack, *Environmental Health (Master's)*

Spatial Distributions Effect on the Evolution of Arbutus in North America
Alexandra McElwee-Adame, *Evolutionary Biology (Master's)*

B09 Poster Interdisciplinary 6 Friday, 10:45AM

Source to sensors topography covariance of sleep spindles in MEG vs EEG
Sophie Kajfez, *Psychology (Undergraduate)*

Synthesizing PROTACs, Generating haloTAG cells and testing PROTACs on haloTAG cells
Ronnesha Johnson, *Biology (Undergraduate)*

Characterization of RAS/RAF interactions on the lipid bilayer
Yecenia Peraza, *Chemistry (Master's)*

Nontargeted Evaluation of Aerobic and Anaerobic Membrane Bioreactors for Treating Emerging Contaminants in Municipal Wastewater

Jade Johnson, *Public Health (Master's)*

Knowledge, Attitudes, And Practices Of Pesticide Use Among Farmers In Mbale District, Uganda

Laila Hamzai, *Public Health - Environmental Health (Master's)*

Lead-halide Perovskite Quantum Dots for Photocatalytic [2+2] Cycloadditions with High Diastereoselectivity

Yixiong Lin, *Chemistry (Doctoral)*

B10 Poster Engineering & Computer Sciences 5 Friday, 10:45AM

Chollas Creek Rolando

Salman Almutairi, *Civil Engineering (Undergraduate)*

Performance Evaluation of a Decentralized Wastewater Treatment Plant in Tijuana, B.C.

Denise Garcia, *Environmental Engineering (Undergraduate)*

The Propensity of Flooding Events in Chollas Creek and 54th Street Concrete Channel

Minerva Munoz, *Civil Engineering (Undergraduate)*

Hydrologic Stability of Nine Mile Creek

Samuel Zorn, *Environmental Engineering (Undergraduate)*

Concentrations and Loadings of Anthropogenic Pollutants in the San Diego River and Its Tributary During Storm Events

Federick Pinongcos, *Environmental Engineering (Master's)*

Photodegradation of Emerging Chemicals in Aerobic and Anaerobic Wastewater Treatment Systems for Decentralized Water Reuse

Alma Rocha, *Civil Engineering Environmental Engineering Track (Master's)*

Is recharging groundwater basins by stormwater an environmentally-sustainable idea?

Yousef Sangsefidi, *Mechanical and Aerospace Engineering - Joint Doctoral Program (Doctoral)*

B11 Poster Behavioral & Social Sciences 6 Friday, 10:45AM

Language Specificity in Maternal Education Revisited: Vocabulary Growth before 30 Months of Age

Oliver Lopez, *Psychology (Undergraduate)*

Concurrent and Predictive Relations Between Vocabulary and Narrative Ability
Tyler Haubeck, *Psychology (Undergraduate)*

Measuring Early Vocabulary: a Facilitating Assessment in Multiple Languages
Kiryl Kachko, *Pre-Psychology (Undergraduate)*

Lexical Decision Task Performance and Executive and Linguistic Abilities in Adolescents with Autism Spectrum Disorder
Kalekirstos Alemu, *Psychology (Undergraduate)*

The effects of iconicity in word and picture naming in American Sign Language: preliminary testing of stimuli in a control group of monolingual English Speakers
Bradley Cheng, *Psychology (Undergraduate)*

Audio-Visual Integration Skills and Language Abilities in Monolingual Adults
Michelle Villaraza, *Speech, Language, and Hearing Sciences (Master's)*

Explicit Repetition Priming in Treatment of Anomia
Rana Tabrizi, *Speech, Language, and Hearing Sciences (Master's)*

B12 Poster Health Nutrition & Clinical Sciences 2 Friday, 10:45AM

Head and Neck Cancer - Disease and Treatment Impact on Speech Physiology
Annie Miodovski, *Speech, Language, and Hearing Sciences (Undergraduate)*

Do the Dietary Practices of African Americans Increase Their Rate of Colorectal Cancer?
Tony Zamro, *BIOLOGY - EMPHASIS IN CELLULAR AND MOLECULAR BIOLOGY (Undergraduate)*

Using a process map to identify workflow and intervention points for colorectal cancer screening in community health centers
Carly DaCosta, *IS3D (Biology, Public Health, and Women's Studies) (Undergraduate)*

Trends in Stage at Diagnosis for Lung Cancer in the US, 2009-2016
Paris Offor, *Public Health (Undergraduate)*

Comparing age at cancer diagnosis between Hispanics and non-Hispanic Whites in the United States
Andrew Vu, *Epidemiology (Master's)*

Developing and Adapting Survivorship Care Plans for Rural Latina Breast Cancer Patients
Viviann Cesena, *Social Work (Master's)*

The Spatial Association between Breast and Digestive Cancer Incidence and Poverty among California Teachers
Rachelle De Ocampo, *Public Health Epidemiology (Master's)*

B13 Poster Physical & Mathematical Sciences 4 Friday, 10:45AM

Evolution of Spectral Distributions in Deep-Water Constant Vorticity Flows
Mackensie Murphy, *Applied Mathematics (Undergraduate)*

Distinctive allometry relations and conserved properties in dsDNA viral lineages
Meg Robinson, *Applied Mathematics (Undergraduate)*

Finding Dense Lattice Packings in Prime Dimensions
Michael Angel, *Mathematics (Master's)*

Land-cover Classification using Spectral Mixture Analysis and Random Forest
Ye Mu, *Geography (Master's)*

Modeling Fibroblast Growth Factor Expression in Embryonic Lungs
Geneva Porter, *Applied Mathematics (Master's)*

Mathematical Models of the Transmission Dynamics of Black Band Disease in Coral Reefs
Jayme Rosenquist, *Applied Mathematics (Master's)*

B14 Poster Behavioral & Social Sciences 7 Friday, 10:45AM

Investigating Spatiotemporal Stages of Emotional Face Processing with anatomically-constrained MEG
Joseph Gorski, *Psychology (Undergraduate)*

Accuracy of An Automated Decision Tree Tool for Detecting ARND
Emily Duprey, *Psychology (Undergraduate)*

Poster
Da Yeoun Moon, *Psychology (Undergraduate)*

Moderate Ethanol and n-3 Diet Interactions on Lipid Profile and Liver Function in Mice
Luciano Voutour, *Psychology (Master's)*

The Stroop effect reveals deficits of cognitive control in individuals with AUD

Rebecca Carvalho, *Psychology (Master's)*

Altered Functional Connectivity During Cognitive Conflict in Men and Women with Alcohol Use Disorder

Sojung Youn, *Psychology (Master's)*

B15 Poster Biological & Agricultural Sciences 3 Friday, 10:45AM

Pathophysiology of Neurodegenerative Langerhans Cell Histiocytosis

Samantha Trescott, *Biology - Cell and Molecular (Undergraduate)*

The Regeneration of Entorhinal Cortical Neurons from Induced Pluripotent Stem Cells for Alzheimer's disease

Megan Sterling, *Biology (Undergraduate)*

Knocking out genes downstream of Yamanka factors to elucidate necessity in dedifferentiation of hepatocytes

Jasmine Chavez, *Cell and Molecular Biology (Master's)*

Effect of LMX1A in the generation and differentiation of dopaminergic neurons from iPSCs

Willi Cheung, *Cell and Molecular Biology (Master's)*

The effect of drugs that induce E2A activity on pancreatic cancer stemness.

Denay Stevenson, *Cell and Molecular Biology (Master's)*

RNA and protein composition of extracellular vesicles compared throughout different human tissues

Amber Morey, *Cell and Molecular Biology (Master's)*

B16 Poster Behavioral & Social Sciences 8 Friday, 10:45AM

Associations between Temperature Variables and Heat-Related Deaths in the Contiguous United States

Jessica Embury, *Geography, emphasis Geographic Information Science (Undergraduate)*

Vegetation regrowth in a post-wildfire riparian environment using field-based observations and citizen science

Madeline Hapgood, *Geography (Undergraduate)*

Detecting Risky Driving from Recorded Driving Data.

Eduardo Cordova, *Geographic Information Science (Master's)*

Nongovernmental Organizations in Mexico: Impacts on Food Policy

Paola Diaz de Regules, *Masters of Public Administration and Master of Arts in Latin American Studies (Master's)*

Indigenous Social Movement in Nayarit

Samuel Orndorff, *Geography (Master's)*

C01 Oral Humanities, History, Literature, Philosophy 3 Friday, 1:00PM

Creation of a Narrative: The Cultural Ostracization of Monastic Figures in Renaissance and Early Modern Europe

Christopher Balingit, *History (Undergraduate)*

History of El Asalto a las Tierras in the Mexicali Valley of Baja California Continued

Rigoberto Gerardo, *Social Science with emphasis in History (Undergraduate)*

Yesterday's Brew: Beer and Society in San Diego, 1860 - 1920

Alec Whitson, *History (Master's)*

From the Campus to the Community: The Struggle for Gay and Lesbian Rights in 1970s San Diego

John Gove, *History (Master's)*

Exploring Approaches to Examining Government Managed Healthcare in Mexico City

Jorge Juarez, *Communication (Master's)*

C02 Oral Interdisciplinary 7 Friday, 1:00PM

Using Transmission Electron Microscopy to investigate the effect of pulsed 450 nm blue light on methicillin-resistant *Staphylococcus aureus*

Chynna Bowman, *Biology (Undergraduate)*

Inhibition of RET via Pralsetinib in an in vitro Model of Neuroblastoma

Jessica Gutierrez, *Biology (Undergraduate)*

Examining the role of High Mobility Group Box 1 (Hmgb1) in cardiomyocyte senescence

Jeffrey Jones, *Biology (Undergraduate)*

Human iPSC-derived senescent microglia as a screening platform for Alzheimer's disease therapeutics

Carolina Cano Macip, *Cellular and Molecular Biology (Undergraduate)*

Discovering Bacteriophages in the Human Gut

Melissa Giluso, *Bioinformatics/ Medical Informatics (Master's)*

The Efficacy of VAX014 in the B16F10 Mouse Model: A Novel Oncolytic Immunotherapy for Melanoma

Katherine Reil, *Cell and Molecular Biology (Master's)*

C03 Oral Behavioral & Social Sciences 9 Friday, 1:00PM

“I wish I had more time, I felt a little rushed”: Miscommunication Inhibiting Success in Students’ Academic Plan

Nicole Deis, *Health communication (Undergraduate)*

National Identity in Israel and its Relation to Inequality and Conflict

Brenden Hawk, *Environmental Engineering (Undergraduate)*

Organizational communication: Jersey Mike’s Subs

Asia Smith, *Philosophy (Undergraduate)*

Recognizing, Respecting, and Reaffirming Indigenous Lands: Exploring San Diego State University’s Newly Established Land Acknowledge Statement

Lane Yazzie, *interdisciplinary studies (Undergraduate)*

Women Facing Homelessness and Vulnerability: An Assessment at a Large Public Library in San Diego

Janny Li, *Social Work (Master's)*

Framing Coast Guard Press Releases: Examining the PR Practitioner - Journalist Relationship and Multimedia Applications

Robert Simpson, *Mass Communications (Master's)*

C04 Oral Engineering & Computer Sciences 6 Friday, 1:00PM

Los Penasquitos Black Mountain

Raghad Hashim, *civil engineering (Undergraduate)*

Design, Microfabrication, and Characterization of Bismuth and Glassy Carbon Based Sensor for Heavy-Metal in Drinking Water

Ryan Butler, *MS Bioengineering (Master's)*

Rainwater Harvesting in Southern California

Cheyenne Graves, *Water Resources Engineering (Master's)*

Urban Fire Effects on Hydrologic and Soil Mercury Processes in a San Diego Creek
Quinn Alkin, *Civil Engineering with a concentration in Environmental Engineering (Master's)*

Using Floating-Gate MOS as a Non-Volatile Analog Memory for Energy-Efficient Adaptive Thresholding in ECG Sensors
Cihan Gungor, *Electrical and Computer Engineering (Doctoral)*

SVM-based Channel Estimation and Data Detection for Massive MIMO Systems with One-Bit ADCs
Van Ly Nguyen, *Computational Science (Doctoral)*

C05 Oral Interdisciplinary 8 Friday, 1:00PM

Portrayal of Migrants in the Media
Franklin Robles, *Criminal Justice (Undergraduate)*

Corruption at the US-Mexico Border: Qualitative Analysis of Official Documents
Eduardo Villa, *criminal justice (Undergraduate)*

Spending Habits Revealed Through Prosody
Tanya Ortiz, *Communication (Undergraduate)*

Court Cases, Plagiarism, and the Ability to Decipher Music Examples
Andrew Michel, *Music-Global Composition (Master's)*

The Problem of Information Technology
Dustin Gray, *Philosophy (Master's)*

C06 Oral Behavioral & Social Sciences 10 Friday, 1:00PM

How Student Workers at SDSU Manage their Professional Fronts when Lacking Audience Segregation
Alina Aguirre, *Criminal Justice (Undergraduate)*

he Impact of Specific Dimensions of Gender Sexuality Alliance Participation on Academic Outcomes Among LGBTQ+ High School Students
Talia Kieu, *Public Health (Undergraduate)*

The Associations between Sexual Assault, Sexual Exploitation and Greek Affiliation
Christian Cacho, *Social Work (Master's)*

Parent-Therapist, Youth-Therapist, Parent-Youth & Parent-Youth-Therapist Agreement on Externalizing & Internalizing Treatment Goals Related to Treatment Engagement in Latinx Families

Devynne Diaz, *Psychology (Master's)*

Pathways to Student Leadership Within High School Gender Sexuality Alliances

Fitri Wijaya, *Public Health (Master's)*

HIV Stigma in HIV-positive people in Rural Uganda: a psychometric evaluation of HIV Stigma Mechanisms Scale (HIV-SMS)

Alexandra Almeida, *Interdisciplinary Research in Substance Use (Doctoral)*

C07 Oral Visual or Performing Arts 1 Friday, 1:00PM

Zilphia Horton: Connecting Church Life, Labor Organizing, and the Civil Rights Movement through Music

Willow Lark, *Music (BA) (Undergraduate)*

The Effect of Materials on the Western Concert Flute Tone

Anna Sharp, *Flute Performance (Master's)*

Parallels in the lives Rachmaninoff and Tchaikovsky through their mental illness and symphonies The Bells and Pathetique

Nick Newman, *Masters in Choral Conducting (Master's)*

Memorizing Piano Music for Performance: A Qualitative Analysis of the Most Effective Techniques

Nancy Coto, *Piano Performance (Master's)*

Building the Pipeline: A Proposed Curriculum for a Graduate Certificate in Musical Theatre Education and Direction

Devon Hunt, *Master of Fine Arts in Musical Theatre (Master's)*

C08 Oral Engineering & Computer Sciences 7 Friday, 1:00PM

Investigating Stress-Induced Domain Switching in Piezoelectric Materials

Steven Malley, *Mechanical Engineering 4+1 BS (Undergraduate)*

Electron and Hole Mobility in Graphene and Glassy Carbon-Based Transistors

Trevor Hunt, *Bioengineering (Master's)*

Fracture Behavior of Concentric Multiferroic Composite Cylinders

Ryan Stampfli, *Mechanical Engineering (Master's)*

Deformation nanomechanics and dislocation quantification at the atomic scale in nanocrystalline pure-metal magnesium

Md. Shahrier Hasan, *Engineering Science- Mechanical and Aerospace (Doctoral)*

Electrical-mechanical-magnetic properties of Terfenol-D particulate embedded in PVDF-TrFE matrix composites

Scott Newacheck, *Mechanical Engineering (Doctoral)*

Preliminary Characterization of Glassy carbon and Graphene based Metamaterial

Surabhi Nimbalkar, *Bioengineering (Doctoral)*

Mechanisms of malate dehydrogenase 1 regulation

Ngoc Huynh, *Chemistry (Master's)*

C09 Poster Behavioral & Social Sciences 11 Friday, 12:30PM

Comparing trust in sources of cancer health information between Hispanics and Non-Hispanic Whites in the San Diego County

Harvey Vu, *Nursing (Undergraduate)*

What Matters During EOL Care Planning? - From the Perspective of Rural Latino Cancer Patients

Evan Acosta, *Public Health (Undergraduate)*

Investigating the influence “powerful others” have on colorectal cancer screening among Latinxs

Miriam Maldonado, *Public Health (Undergraduate)*

Identifying Chemicals of Emerging Concern in San Francisco Bay Sediment Using a Non-targeted Approach

MaryAnn Zakaria, *Master of Public Health with a Concentration in Environmental Health (Master's)*

An Examination of Parental Services Efficacy in Child Mental Health Treatment

Ruth Nunez, *Child development with a concentration in mental health (Master's)*

Colorectal Cancer Trends and Screening Modalities Among Californians in 2018

Marisa Torres-Ruiz, *Public Health, Health Behavior (Doctoral)*

C10 Poster Behavioral & Social Sciences 12 Friday, 12:30PM

Nicotine effects on activation in the Isula, Primary Taste Cortex

Jessica Hennies, Psychology (Undergraduate)

Can Stress Change Sensory Perception?

Carly Flynn, Psychology (Undergraduate)

Effects of Anxiety on Neural Cognition through Attentional-Control Theory

Abigail Albertazzi, Psychology (Undergraduate)

Odor and Taste Thresholds: Is Anxiety a Factor?

Kayla Gorenstein, Psychology (Undergraduate)

Comparing recognition task performance for odor and visual stimuli

Chantal Dietzen, Psychology (Master's)

Impaired Lexicosemantic Performance and Effects of Implicit Semantic Categories in Adolescents with ASD

Apeksha Sridhar, Psychology (Master's)

C11 Poster Health Nutrition & Clinical Sciences 3 Friday, 12:30PM

The Association Between Acoustic Reflex Thresholds and DPOAEs in Young Adults

Athena Doss, Speech, Language, and Hearing Sciences (Undergraduate)

Role of Toll-like receptor 4 in joint remodeling, sprouting, and allodynia in the K/BxN serum transfer model of arthritis

Andrea Gonzalez Cardenas, biology (Undergraduate)

Tobacco, Marijuana, and E-cigarette Effects on the Composition of the Oral Microbiome

Mambu Nsuangani, Microbiology Emphasis in Clinical Laboratory Science (Undergraduate)

Pure-tones and Self-Report Alcohol Use in Young Adults

Rebecca Vieira, Speech Language and Hearing Sciences (Undergraduate)

The effect of Green Tea Extract (GTE) on fat oxidation and glycemic responses during and after arm exercise.

Taylor Roberson, Interdisciplinary Studies (Undergraduate)

Extraction of antioxidants from pistachio seeds using different solvents

Zheyuan Liu, Foods and Nutrition (Undergraduate)

C12 Poster Engineering & Computer Sciences 8 Friday, 12:30PM

Dynamic Nice Value Assignment

Michael Fox, *Computer Engineering (Undergraduate)*

Multi-Processed VS Multi-threaded Socket Communication

Ramiz Hanan, *Computer Engineering (Undergraduate)*

Implementation of Machine Learning Algorithm with Cryptosystems

Cesar Sanchez, *Bachelor of Arts in Mathematics Single Subject Teaching Credential (Undergraduate)*

Minimization of Utility Pole Failure Through Julia Optimization

Michael Violante, *Civil Engineering Water Resources (Master's)*

C13 Poster Physical & Mathematical Sciences 5 Friday, 12:30PM

Nuclear Scattering Modeling with Machine Learning

Steven Bradley, *Physics (Undergraduate)*

Analyzing the interaction between FGF10 and SHH proteins in early lung development through mathematical and computational models

Jasmine Camacho, *Applied Mathematics (Undergraduate)*

Machine Learning to Improve Theoretical Nuclear Binding Energies

Matthew Crowley, *physics (Undergraduate)*

Numerical Semigroups: Analysis of Element Factorizations

Jose Parra, *Single Subject Teaching Credential (Undergraduate)*

Modeling the effects of environmental temperature on the avian influenza epidemics among migratory birds of North America

Sophia Vargas, *Statistics (Undergraduate)*

Ball-collision Decoding Analysis: Linear Codes in McEliece Cryptography

Kyle Yates, *Applied Mathematics (Undergraduate)*

C14 Poster Behavioral & Social Sciences 13 Friday, 12:30PM

Navigating Care for HIV/AIDS at the US-Mexico Border in Mexicali

Dario Reyes-Gastelum, *Psychology (Undergraduate)*

To Intervene or Not Intervene: Bystander Intervention in Potential Sexual Assault as a Function of Perpetrator and Victim Gender and Perpetrator Relationship to Bystander

Rachel Hamilton, *Psychology (Undergraduate)*

Enhancing Providers' Delivery of Feedback About an Autism Spectrum Disorder Diagnostic Evaluation

Kaitlin Chau, *Psychology (Undergraduate)*

Patient Activation in Latino/Hispanic Populations with Cardiometabolic Conditions

Alexis Osuna, *Psychology (Undergraduate)*

The Relationship Between Fatalism and Patient Activation among Hospitalized, Hispanic Adults with Cardiometabolic Conditions and Behavioral Health Concerns

Mariana Marin-Estrada, *Psychology (Undergraduate)*

Informational and sensorial interventions for improving consumer acceptance of edible insects

Cassandra Maya, *Nutritional Sciences (Master's)*

C15 Poster Engineering & Computer Sciences 9 Friday, 12:30PM

BRAF Oncogene Mutations in Non-Small Cell Lung Cancer

Christian Ramirez, *Mechanical Engineering (Bioengineering Emphasis) (Undergraduate)*

A Cellular Based Assay to Monitor the Cleavage of the Extracellular Matrix by Matrix Metalloproteinases as a Tool for Drug Discovery Against Metastasis

Ryan Doyle, *Mechanical Engineering (Bioengineering Emphasis) (Undergraduate)*

Chemical Characteristics of sludge generated by parallel aerobic and anaerobic bioreactors

David Aponte, *Environmental Engineering (Undergraduate)*

IDH1 Mutation Effects on Cell Migration

Amanda Coale, *Bioengineering (Master's)*

Genetic engineering of *Methanococcus marisaludis* and *Shewanella oneidensis* MR-1 for applications in bioelectrochemical systems

Tyler Myers, *Bioengineering (Doctoral)*

C16 Poster Biological & Agricultural Sciences 4 Friday, 12:30PM

Investigating Phage Immunogenicity for *Pseudomonas Aeruginosa* Phage PAK_P1

Isaura Villalba, *Cell and Molecular Biology (Undergraduate)*

Analyzing Protein Expression for Genetic Engineering in Methylobacterium alcaliphilum 20ZR: A Methanotrophic Bacteria

Dennis Krutkin, *Cell and Molecular Biology (Undergraduate)*

Phages isolation for the treatment of multi-drug resistant Achromobacter sp. in Cystic Fibrosis lung infections

Bhumika Gode, *Cellular and Molecular Biology (Undergraduate)*

Role of Genes Located Downstream of SoxB1-2 in the Development of Sensory Neuron Populations in the Planarian Species Schmidtea mediterranea.

Sarai Alvarez-Zepeda, *Biology with an emphasis in Cell and Molecular Biology (Undergraduate)*

Sensory Neuron Differentiation through Pou4-2 Transcriptional Regulation

Ryan McCubbin, *Cell and Molecular Biology (Master's)*

Determining the molecular function of bacteria stimulated animal development

Kyle Malter, *Cell and molecular biology (Doctoral)*

C17 Poster Physical & Mathematical Sciences 6 Friday, 12:30PM

Spectroscopic Properties of Fluorescent 8-DEA-tc DNA-RNA Heterduplexes

Grace Kim, *Chemistry (Undergraduate)*

Electrochemically Controlled Dimerization of Ferrocene Ureidopyrimidone Derivatives. The Effect of Ferrocene Position and Electrostatics of the System.

Veronika Mikhaylova, *Chemistry Biochemistry (Undergraduate)*

Improving regiocontrol of Minisci-type alkylations on N-heterocycles using a Lewis acid blocking strategy

Ernesto Millan Aceves, *Chemistry (Undergraduate)*

Asymmetric methodology to obtain selective atropisomeric BTK Kinase Inhibitors

Mariami Basilaia, *Chemistry (Master's)*

Synthesis of Atropisomeric Diarylamines as a Scaffold for Kinase Inhibitor Development

Beeta Heydari, *Chemistry (Master's)*

Investigation of Fluorescence Quenching and the Fluorescence-Turn-On-Effect In Fluorescent Nucleosides.

Harrison Pearce, Chemistry (Doctoral)

D09 Poster Behavioral & Social Sciences 14 Friday, 2:15:PM

Correlation Between Stress and Comfort in a Commuting Setting
Rebeca Pozos, Urban Studies - Urban Sustainability (Undergraduate)

Market Failure of Parking Permits and Transit Pass at SDSU Campus
Daniel Mendoza, Economics with Emphasis in Public Policy (Undergraduate)

Value of Contingency Planning in the Face of Potential Family Separation
Lorena Garcia, Social Work (Undergraduate)

Environmental Aesthetics
Austin Cosler, Philosophy (Master's)

Sexual Exploitation Among College Students: An Exploratory Study In San Diego State University Student Body
Lauren Azar, Social Work (Master's)

Predictors of Suicidal Ideation among Pediatric Patients seen in an Emergency Department
Khusnnora Satybaldiyeva, EPIDEMIOLOGY (Master's)

Impact of Advance Care Planning Education Intervention on Advance Directive Completion and End of Life Communication Among Hispanic Cancer Patients
Nayeli Gonzalez, Social Work (Master's)

D10 Poster Health Nutrition & Clinical Sciences 4 Friday, 2:15:PM

Barriers and Supports Related to Exclusive Breastfeeding Duration among Hispanic Women
Flor Gallegos, Nursing (Undergraduate)

HPV Vaccination Knowledge & Beliefs: A comparison between U.S- México Border Area Residents and Non Residents
Priscila Chagolla, Public Health (Undergraduate)

The relationship between household food insufficiency and development of type 2 diabetes over 10 years in a sample of U.S. black and white adults
Cynthia Chow, Public Health: Epidemiology (Master's)

Student Nurse Empowerment in Death and Dying

Shaina Marie Jacob, Nursing (Master's)

Use, Knowledge, and Perception of Electronic Cigarettes in Undergraduate Nursing Students

Brittany Kinsler, Master's Nursing (Master's)

Language barriers in self-management outcomes for patients with heart disease

Phuong Nguyen, Public Health (Master's)

D11 Poster Behavioral & Social Sciences 15 Friday, 2:15:PM

Parallel processing of semantics in the flanker paradigm: Evidence from the N400

Jacqueline Manning, Psychology (Undergraduate)

Blocked vs Random Design: Masked Repetition Priming using Event-Related Potentials

Emily Akers, Psychology (Undergraduate)

Attention to Salient Emotional vs. Non-Emotional Stimuli in Anxiety

Megan Spence, Psychology (Undergraduate)

Discriminating between autism-related social deficits and social anxiety in adolescents with autism spectrum disorders

Monica Deyski, Psychology (Undergraduate)

Functional connectivity within the anxiety network is atypical in middle-aged adults with autism and associated with anxiety symptom severity

Ryan Tung, Psychology (Undergraduate)

Subcortical volumes in middle-aged adults with autism spectrum disorders and typical control adults

Emma Churchill, Psychology (Undergraduate)

D12 Poster Engineering & Computer Sciences 10 Friday, 2:15:PM

Post-fire soil processes in urban and Mediterranean watersheds

Rey Becerra, civil engineering (Undergraduate)

Persistence of sewage-derived bacteria and viruses in soil

Mia Gil, Environmental Engineering (Undergraduate)

Post-Fire Turbidity and Soil Erosion Modeling in an Urban Environment

Kevin O'Marah, Civil Engineering (Undergraduate)

Flood after fire in Southern California – Incorporating Machine Learning to Identify Important Parameters for Process-based Hydrologic Models

Brenton Wilder, *Civil Engineering (Water Resources) (Master's)*

D13 Poster Health Nutrition & Clinical Sciences 5 Friday, 2:15:PM

Effects of balance training with visual perturbations on people with incomplete spinal cord injury

Angelica Mora, *Kinesiology (Undergraduate)*

Reliability of NordBord Nordic Hamstring Exercise Testing in Healthy Adults

Justine Buenaventura, *Kinesiology Emphasis in Pre-Physical Therapy (Undergraduate)*

Associations between Sport Specialization, Income, and Injury among Collegiate Athletes

Bailey Bingham, *Athletic Training (Undergraduate)*

Increased muscle co-contraction around the ankle joint and center of pressure beneath the foot associated with increased chance of falls in elderly adults

Khoa Vo, *Kinesiology Pre-Physical Therapy (Undergraduate)*

A fast-start pacing strategy does not improve locomotor fatigue dynamics but does improve supra-critical power work capacity

Tori Simon, *Exercise Physiology (Master's)*

Greater Severity and Functional Impact of Post-Traumatic Headache in Veterans with Comorbid Neck Pain following Traumatic Brain Injury

Robyn Bursch, *Doctorate of Physical Therapy (Doctoral)*

D14 Poster Behavioral & Social Sciences 16 Friday, 2:15:PM

A Closer Look at Common Core Exemplars

Savannah Irwin, *Psychology (Undergraduate)*

Minority vs. White Perspectives: Context Ethnic Diversity Indicators Differentially Predict State-Level Implicit Biases

Brigitte Tomma, *Psychology (Undergraduate)*

U.S. Students of Indigenous Descent Returning into the Mexican Educational System

Luis Betancourt, *Latin American Studies (Master's)*

A Person-Centered Investigation of Time Urgency and Related Work-Outcomes
Rebecca Harmata, *Industrial Organizational Psychology (Master's)*

Examining the Effects of Interleaved Solutions and Problem Solving on Math Fluency Outcomes
Brianna Wuensch, *School Psychology (Master's)*

D15 Poster Biological & Agricultural Sciences 5 Friday, 2:15:PM

Characterization of Q425: an anti-CD4 antibody
Citlayi Villaseñor, *Chemistry, emphasis in Biochemistry (Undergraduate)*

Characterization of Amplified Malate Dehydrogenase 1 (MDH1) in the Context of Squamous Cell Lung Cancer
Sati Alexander, *Biology (Undergraduate)*

Mechanisms of malate dehydrogenase 1 regulation
Ngoc Huynh, *Chemistry (Master's)*

Using Metabolomics to Determine the Effect of Dihydromyricetin on Alcohol Metabolism
Kristin Hughes, *Chemistry (Master's)*

Biomarker Detection via Capillary Electrophoresis for the Investigation of Extraterrestrial Life
Jessica Torres, *Chemistry (Master's)*

Single Molecule Analysis on Membrane Recruitment of B-Raf
Andres Jimenez Salinas, *Chemistry (Doctoral)*

Understanding IDH1 Regulation through Site Specific Acetylation Mimics
Joi Weeks, *Cellular & Molecular Biology (Doctoral)*

D16 Poster Engineering & Computer Sciences 11 Friday, 2:15:PM

Baja Epi-Intra NeuroMEMS Device
Rene Arvizu, *Mechanical Engineering with a Bioengineering Emphasis (Undergraduate)*

Utilizing A 3D printer and Arduino Hardware to Build An Inexpensive Capillary Electrophoresis Instrument.
Davis Klein, *Biochemistry (Undergraduate)*

Tri Hybrid Ultra Light Composites For Bio-applications

Christopher Oyuela, Mechanical Engineering (Undergraduate)

Effect of Outflow Graft Size on Stroke Risk of the Aortic Arch

Shelby Angel, Mechanical Engineering (Master's)

Mathematical modeling and simulations of centriole positioning during mitosis of cells in confined environments

Nadia Beydoun, Bioengineering (Master's)

Receptor cross-talk prediction in epithelial cell stress signaling based on boolean network

Esra Tiftik, Engineering sciences:bioengineering (Doctoral)

D17 Poster Physical & Mathematical Sciences 7 Friday, 2:15:PM

Silver Nanoparticles as Catalysts for Conversion of Carbon Dioxide to Useful Products

Nicholas Smith, Chemistry (Undergraduate)

Improving Solar Cell Performance By Incorporating Silver Nanocubes and Nanostars

Carla Hyppolite, Chemistry (Undergraduate)

Sensitive and Selective Detection of Breast Cancer Biomarker HER2 Using Laser Wave-Mixing Detector Interfaced to Microfluidics

Nino Shatirishvili, Chemistry (Master's)

Modifying Electroosmotic Flow Mid-separation as a Method of Sample Stacking

Muhand Rashid, Chemistry (Master's)

Tuning Morphology of Nanostructured Silicon Interfaces Using Magnetic Nanoparticles for Photoelectrochemical Water Splitting

Margaret Patrick, Chemistry (Master's)

Sensitive Detection of Heart-Failure Biomarkers Using Multi-Photon Laser Wave-Mixing Spectroscopy

James Suprpto, Chemistry (Doctoral)

E01 Poster Behavioral & Social Sciences 17 Friday, 4:00PM

Comparing Cancer Beliefs and Practices across the US-Mexico Border: A Binational Study

Elvira Hernandez, Psychology (Undergraduate)

Cultural Factors the Influence African American/Black Women's Adherence to Breast Cancer Treatments: A Review of the Literature
Victoria A. Davis, Psychology (Undergraduate)

Barriers to Advance Care Planning in Latino/Hispanic Cancer Patient Communities: A Review of the Literature
Alegha Binda, Psychology (Undergraduate)

Advance Care Planning: Barriers and Facilitators among Rural Latino Cancer Patients in the US-Mexico Border
John Moreno Jr, Psychology (Undergraduate)

Gender and the Link Between Fitness and Cancer Risk/Mortality: A Review of the Literature
Andrea Ramos, Foods and Nutrition (Undergraduate)

rAAV as Potential Therapeutic for Glioblastoma
Sharon Sengphanith, Interdisciplinary Studies (Undergraduate)

E02 Poster Engineering & Computer Sciences 12 Friday, 4:00PM

The Utilization of Flue Gas for Desalination
Marina Balcazar, Environmental Engineering (Undergraduate)

Zero-Valent Iron Enhancement of Bioelectrochemical Methanogenesis
Sarah Perkins, Environmental Engineering (Undergraduate)

Horizontal Flame Spread Research on Thermally-Thin PMMA at Varied Opposed Flow Velocities in Simulated Micro-gravity Environments
Joseph Schottmiller, Mechanical Engineering (Undergraduate)

Carbon Nanoparticle Production through Hydrocarbon Pyrolysis Experimentation and Modeling
Nicholas Bauer, Mechanical Engineering (Master's)

Towards physics-based turbulence modeling of pressure-related terms
Jose Moreto, Engineering Science (Doctoral)

E03 Poster Biological & Agricultural Sciences 6 Friday, 4:00PM

Assessing the Therapeutic Potential of Cannabinoids using a Drosophila (fruit fly) Based Traumatic Brain Injury Model.
Natasha Sam, Biology (Undergraduate)

Testing the Toxicity and Neural Protective Potential of Cannabinoid Compounds by Examining Adult *Drosophila* (fruit fly) Longevity and Behavior Profiles

Alec Candib, *Cellular and Molecular Biology (Undergraduate)*

Design and testing native CRISPR-based gene editing for genetic manipulations in *Methylobacterium alcaliphilum* Strain 20ZR, a model methanotroph.

Pedro D'Alo, *Biology (Undergraduate)*

Assessing the Role of Hsp60A in Inclusion Body Myopathy Type 3 Utilizing a *Drosophila* Model

Megan Bacabac, *Biology (Undergraduate)*

Characterization of the ultrastructure of the common marmoset (*Callithrix jacchus*) hippocampus using electron microscopy

Casey Vanderlip, *Biology (Undergraduate)*

Impacts of TCPMOH Exposure on Zebrafish Embryonic Development

Peyton Wilson, *Environmental Science (Undergraduate)*

Gastrointestinal Stromal Tumors Expression of Truncated KIT

Antonio Delgado, *Kinesiology: Pre-Physical Therapy (Undergraduate)*

E04 Poster Behavioral & Social Sciences 18 Friday, 4:00PM

First Trimester Equivalent Binge-like Alcohol Exposure in Mice

Deva Reign, *Psychology (Undergraduate)*

The Effects of Chronic Drinking in Pregnant C57BL/6J x FVB/NJ F1 Hybrid Mice

Yanna Roumeliotis, *Psychology (Undergraduate)*

The Effects of Prenatal Nicotine and THC Exposure on Motor Coordination in Rats

Samirah Hussain, *psychology (Master's)*

The Effects of Prenatal Nicotine and THC Exposure via E-Cigarette on Working Memory in a Rat Model

Cristina Rodriguez, *Psychology (Master's)*

Olfactory Detection in C57BL/6J FVB/NJ F2 Hybrid Mice with Prenatal Alcohol Exposure

Lindsey Aguilar, *Psychology (Master's)*

Examination of Hippocampal Subfield Volumes in Adolescents and Adults with Fetal Alcohol Spectrum Disorders

Emily Sones, *Psychology (Master's)*

E05 Poster Health Nutrition & Clinical Sciences 6 Friday, 4:00PM

Does environmental PPAR γ crosstalk with Nrf2 signaling pathways?

Alexa Garcia, *Environmental Science (Undergraduate)*

Role of olfactory imagery on eating patterns and weight gain - A Narrative Review

Melissa Favela-Ayala, *Foods and Nutrition (Undergraduate)*

A Rodent Model of Prenatal THC and Nicotine E-Cigarette Exposure

Karen Thomas, *Cellular and Molecular Biology (Undergraduate)*

Demographic, Psychological, and Physical Predictors of Comorbid Health Conditions among People with Fibromyalgia

Alan Patrus, *Biology (Undergraduate)*

The Effects of Smoking on the Gut Microbiome: The Relationship to Colorectal Cancer Disparities for African-American Men

Shawn Barrowcliff, *Biology (Undergraduate)*

PyFBA: Simulating Genome-Scale Metabolic Models

Shane Levi, *Biological and Medical Informatics (Master's)*

E06 Poster Physical & Mathematical Sciences 8 Friday, 4:00PM

Nucleophilic Substitution Methodologies Towards Pharmaceutically Relevant Atropisomers

Deane Gordon, *Chemistry (Undergraduate)*

Total Synthesis of Palmyramide A: A Promising Therapeutic Agent Against Colon Cancer

Anastasiya Bender, *Chemistry (Undergraduate)*

Fine Tuning Dihedral Angles for Novel Pyrazolopyrimidine Inhibitor Scaffolds

Bahar Heydari, *Chemistry (Master's)*

Cu tuned Lead-Halide Perovskite for N-N bond formation

Jovan San Martin, *Chemistry (Master's)*

Metal Dichalcogenides for Facile and Selective Direct Electrochemical Co-enzyme Regeneration!
Nicholas Williams, Chemistry and Biochemistry (Doctoral)

Peptide Stapling by Lewis Base/Bronsted Acid Catalyzed Sulfenylation of Tryptophan
Zachary Brown, Chemistry (Doctoral)

Comparison of Fluorogenic Cytidine Nucleosides: Developing a New Analogue to Test Structure and Properties
Casey Heaney, Cellular and Molecular Biology (Undergraduate)

E07 Poster Biological & Agricultural Sciences 7 Friday, 4:00PM

An Overview of the Microhabitat on *Cylindropuntia Wolfii* Fruits
Carlos Portillo, Biology (Undergraduate)

Effects of new bacterial pathogen species, *Bordetella atropisiae*, on the genetic fitness of *Oschieus Tipulae*
Munira Ali, Microbiology (Undergraduate)

Discovery of a *Buttiauxella* species that adheres to intestinal cells and is likely a commensal microbe of wild *C. elegans*
Jonah Faye Longares, Microbiology (Undergraduate)

Exploring the genetic elements of methane-based chemotaxis in *Methylomicrobium alcaliphilum* 20 Z
Cassandra Ortiz-Nelsen, Pre-Microbiology (Undergraduate)

Assessment of chondrichthyan biodiversity in western India.
Isabella Livingston, Biology (Undergraduate)

Skin microbiome of the round stingray, *Urobatis halleri*, in southern California
Emma Kerr, Biology (Undergraduate)

E08 Poster Behavioral & Social Sciences 19 Friday, 4:00PM

Ravens and Other Small Birds of Grasshopper Pueblo
Francesca Beard, Anthropology (Undergraduate)

Exploring the spatial resolution of the pit organ system of pitvipers through evoked behavioral responses to standardized stimuli
Ann Doan, Biology, emphasis on Zoology (Undergraduate)

How Host-Parasite Interactions Impact Behavior in a Salt Marsh System
Melissa Belen-Gonzalez, *Biology (Undergraduate)*

Spanish land-use methods on California ecosystems in the Mission and early post-Mission periods
Kellen Lovell, *Anthropology (Undergraduate)*

A Model Based Approach to Human Impact and Extinction
Miriam Kopels, *Anthropology (Master's)*

Osteological Analysis of a Burial from the Lower Río Verde Valley
Scott Miller, *Anthropology (Master's)*

F01 Exhibit Exhibit 1 Friday, 9:00AM

History of subversive music of Brazil
John Mollet, *History (Undergraduate)*

Use of Virtual Reality in Geographic Education
Christian Mejia, *GEOGRAPHY GEOGRAPHIC INFORMATION SCIENCE (Master's)*

G01 Performance Arts Performance Arts 1 Friday, 1:30PM

Worship of a Decaying Martyr
William Lambert, *MFA in Creative Writing (Master's)*

MESMERIZED: A 3'13" Serialism Piece about Today's Distracted Students
Andres Wong, *Bachelor of Music Professional Studies - General (Undergraduate)*

H01 Oral Humanities, History, Literature, Philosophy 4 Saturday, 10:00AM

Film as medium for sustainability
Sebastian Frias, *Philosophy (Undergraduate)*

Shame and Misogyny
Tawny Whaley, *Philosophy (Master's)*

Realizing Consciousness Through the Metaphysical Model of Physiophenomenalism
Brian Archibald, *Philosophy (Master's)*

Believing and Acting Responsibly
Brandon Walton, *Philosophy (Master's)*

Edna and Lois: A Look at the Lives, Times, and Writings of a Mother and Daughter in National City.
Albert Contreras Jr, *History (Master's)*

H02 Oral Engineering & Computer Sciences 10 Saturday, 10:00AM

The Effects of Gravity on the Combustion of Thermally-Thin PMMA in a Narrow Channel
Lucas Massey, *Mechanical Engineering (Undergraduate)*

Infrared Examinations of Preheating in Simulated Microgravity Flamespread
Michael Berry, *Mechanical Engineering (Master's)*

Implementation of SpraySyn, a standardized spray flame nanoparticle synthesis system
Helena Rodriguez Fernandez, *Mechanical Engineering (Master's)*

Synthesis of Manganese Oxide Nanoparticles in Flames
Shruthi Dasappa, *Engineering Sciences (Doctoral)*

High Quality Video Compression and Reconstruction
Patrick Perrine, *Computer Science (Undergraduate)*

BRIC: Locality-based Encoding for Energy-Efficient Brain-Inspired Hyperdimensional Computing
Justin Morris, *Computer Engineering (Doctoral)*

H03 Oral Interdisciplinary 9 Saturday, 10:00AM

A Qualitative Understanding of the Migration Experience in Mexico
Martin Ibarra, *MPH - Health Promotion & Behavioral Science and MA - Latin American Studies (Master's)*

Dungeons & Dragons Player Differences
Nathaniel Rogers, *Communication (Master's)*

The Effect of Traumatic Brain Injury Prevention Laws on Youth Sports Participation
Oren Rosenberg, *Economics (Master's)*

Praying the Hurt Away: The Impact of Evangelical Values on Seeking Mental Health Support
Kara Sutton, *Communication (Master's)*

Distributor agreements and the location and branding of unhealthy products within food stores

Petrona Gregorio-Pascual, Public Health, Health Behavior (Doctoral)

Investigating the mechanism of a bacterial protein that induces animal metamorphoses

Milagros Esmerode, Cellular and Molecular Biology (Undergraduate)

H04 Oral Behavioral & Social Sciences 20 Saturday, 10:00AM

An Inbred Strain Comparison of Alcohol Consumption in Neonatal Mice

Kiley Borchard, Psychology (Undergraduate)

The Effects of Prenatal Alcohol and THC Vapor Exposure on Anxiety

Jaclyn Hanson, Psychology (Master's)

Psychometric Properties and Validation of the Self-Reported Offending Measure among Justice-Involved Youths

Sarah Chavez, Interdisciplinary Research on Substance Use (Doctoral)

Effects of changes in binge drinking on attention, learning and memory

Nafisa Ferdous, Interdisciplinary Research on Substance Use (IRSU) (Doctoral)

Homeless and Polysubstance Use: A Qualitative Study on Treatment Access Solutions

Melanie Nicholls, IRSU JDP (Doctoral)

H05 Oral Behavioral & Social Sciences 21 Saturday, 10:00AM

Sex differences in tobacco use among Mexican-origin young adults

Gabriella Corralejo, Public Health (Undergraduate)

Establishing a Qualitative Understanding of the Drinking Water and Sanitation Infrastructure in Rural Oaxaca, Mexico

Alexandra Fox, MA Latin American Studies and MPH Environmental Health (Master's)

The Right to Health Care: Central American Asylum Seekers in Chiapas, Mexico

Ivette Lorona, MA Latin American Studies and MPH in Health Promotion & Behavioral Science (Master's)

Dental anxiety and dental utilization among Mexican-origin adults on the US-Mexico border.

Logan Okawachi, Health Promotion and Behavioral Science (Master's)

Medical pluralism and factors influencing health care decision making in a rural Paraguayan community

Jennifer Schneider, MPH Health Promotion and Behavioral Studies, MA Latin American Studies
(Master's)

Perceptions and Attitudes on the Increase of Caesarean Section Within Oaxaca
Amelia Torres, Public Health and Latin American Studies (Master's)

H06 Oral Engineering and Computer Sciences 13 Saturday, 10:00AM

IoT-Based Remote Data Collection and Monitoring System for Organic Solar Cells
Iam Slimmon, Electrical and Mechanical Engineering (Undergraduate)

Graphene Quantum Dots
Arantxa Gomez Ferrer, Aerospace Engineering (Undergraduate)

Power Point
Omar Nunez Cuacuas, Mechanical Engineering (Master's)

Heliostat Field Design Study for the Small Particle Heat Exchange Receiver
Steven Webb, M.S. Mechanical Engineer (Master's)

Optical Design of a Solar Flux Uniformity Corrector for a Combined PV-T Receiver
Raymond Smith, Mechanical Engineering - Energy & Thermofluids (Master's)

Techno-Economic Analysis for Wave Energy Conversion Devices Designed for the United States West Coast
Omri Paran, Master of Engineering (Master's)

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