12th Annual Undergraduate Research, Scholarship, and Creative Activity Symposium

May 7 & 8, 2018

3rd Floor Hub
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12th Annual Undergraduate Research, Scholarship, and Creative Activity Symposium

Schedule of Events

Oral Presentations

Monday, May 7, 2018

7:30 – 8:45 Presenter Registration; Oral & Poster Presentation Setup
HUB Lobby 3rd Floor

8:30 Registration Officially Opens
HUB Lobby 3rd Floor

Oral Presentations

9:00 - 10:00 Session 1 HUB 355 Moderator: Dr. Rebekah Richert, Psychology

1a Just Like Her: When a Role Model Isn’t a Role Model - An Analysis of Female Characters in Young Adult Mega-Blockbuster Literary/Film Hybrids
Kristen Lee, English/Education
Faculty Mentor: Dr. Stephen Sohn, English

1b The Queer Confessional: Locating the Discordant Energies of Language and Queer Form in Henri Cole's Poetics
Jan Maramot Rodil, English
Faculty Mentor: Dr. Steven Gould Axelrod, English

1c Heroic Virtue: Moral Testings in the English Renaissance
Amy Ayotte, English and Art History
Faculty Mentor: Dr. Heidi Brayman, English
9:00 - 10:00  Session 2  HUB 379  Moderator: Dr. Jim Burnette, Botany & Plant Sciences

2a  Quantitative Assessment of Schooling and Aggression in Trinidadian Guppies, Poecilia Reticulata
    Sarah Ruckman, Biology
    Faculty Mentor: Dr. David Reznick, Biology

2b  Using Binary Choice Assays to Investigate the Evolution of Bitter Taste Tolerance in Drosophila sechellia
    Bindi Hira, Biology
    Faculty Mentor: Dr. Anupama Dahanukar, Entomology

2c  Barred Owl (Strix varia) Feather Pennulae and Their Role in Reducing Structural Noise in Flight
    Lori Liu, Biology
    Faculty Mentor: Dr. Christopher Clark, Biology

9:00 - 10:00  Session 3  HUB 367  Moderator: Dr. Victor Rodgers, Bioengineering

3a  Expression and Purification of Fluorescent PIAS1 Protein from Inclusion Bodies for FRET Assay
    Kate An, Bioengineering
    Faculty Mentor: Dr. Jiayu Liao, Bioengineering

3b  Antibacterial Studies Of ZnO Nanoparticle Coating On Nanocrystalline-YSZ Irradiated With Femtosecond Laser Light
    Crysthal Alvarez, Mechanical Engineering
    Faculty Mentor: Dr. Guillermo Aguilar, Mechanical Engineering

3c  Synthesis of Anacardic Acid Derivatives for treatment of SUMO Dependent Cancers
    Phartho Paul, Chemical Engineering
    Faculty Mentor: Dr. David Martin, Chemistry

10:10 - 11:00  Session 4  HUB 355  Moderator: Dr. Denver Graninger, History

4a  Academic Counselors and their Relationship to Graduation Rates in LAUSD Public High Schools
    Kimberly Gonzalez Arce, Sociology
    Faculty Mentor: Dr. Tanya Nieri, Sociology

4b  Analyzing Objectophilia: An Examination of the Possible Limits of Love
    Lissa Dechakul, Philosophy
    Faculty Mentor: Dr. Georgia Warnke, Political Science

4c  The Functional and the Phenomenal: On Looking for Consciousness in Artificial Intelligences
    David Udell, Philosophy/Political Science
    Faculty Mentor: Dr. Eric Schwitzgebel, Philosophy
10:10 - 11:00  Session 5  HUB 379  
**Moderator:** Dr. Gregor Blaha, Biochemistry

5a  Twelve Clay Butterflies  
Amulya Kunduru, Biology  
Faculty Mentor: Dr. Anthony Macias, Ethnic Studies

5b  The afferent connectivity of the medial preoptic area in the California mouse, Peromyscus californicus  
Anastasia Shakhbazova, Nathan Horrell, Amanda Le, Brian Hogan, Oanh Nguyen/Biology, Neuroscience, Biochemistry  
Faculty Mentor: Dr. Wendy Saltzman, Biology

5c  Correlation between photoluminescence quenching and proximity-induced spin-orbit coupling in graphene-WSe2 Heterostructures  
Everardo Molina, Physics  
Faculty Mentor: Dr. Jing Shi, Physics

10:10 - 11:00  Session 6  HUB 367  
**Moderator:** Dr. Craig Schroeder, Computer Science

6a  Directed Placement and Routing for mVLSI Devices  
Karen Kong, Computer Science  
Faculty Mentor: Dr. Philip Brisk, Computer Science & Engineering

6b  Investigating Intrinsic Spectral Features of High Redshift Quasars  
Nicholas Pham, Chemical Engineering and Physics  
Faculty Mentor: Dr. George Becker, Physics and Astronomy

6c  Identification of targetable surfaces of Cks1 for development of new cancer therapeutics  
Nolan Winicki, Bioengineering  
Faculty Mentor: Dr. Dimitrios Morikis, Dr. Jefferson Perry, Bioengineering, Biochemistry

11:00 - 11:25  Session 7  HUB 367  
**Moderator:** Dr. Thomas Dickson, Assistant Vice Provost, Undergraduate Education

7a  Transposing The “Other:” Subverting Stereotypes In the Work of Confessional Poets  
Cristian Guerrero, Computer Science  
Faculty Mentor: Dr. Steven Axelrod, English

7b  Embracing a Liberatory Pedagogy: A Proposal for Ethnic Studies in K-6 Curriculum  
Nhung Ha, Chemical Engineering and Physics  
Faculty Mentor: Dr. Rita Kohli, Graduate School of Education
11:30 – 12:00  Symposium Opening Ceremony
   Welcome – Dr. Richard Cardullo, Interim Vice Provost Undergraduate Education
   Opening Remarks – Dr. Kim Wilcox, Chancellor

   Theatre Performance:
   “The Power of the Female Voice in Shakespeare: A montage of monologues”
   - This performance will feature a conversation among women, expressing truth in grief, love, anger, and fear through the female voices in Shakespeare.
   Performers:
   Cynthia Navarro (Lady Constance and Portia)
   Aryana Santos (Lady Macbeth and Katherina)
   Chelsea Ramirez (Juliet and Cleopatra)
   Folasadé Ayodele (Juliet and Queen Margaret) [director of the piece]
   Faculty Mentor: Dr. Bella Merlin, Theatre, Film, and Digital Production

12:00 – 1:00  Poster Sessions    HUB 302

Oral Presentations

1:10 - 2:00  Session 8    HUB 355  Moderator: Dr. Freya Schiwy, Media and Cultural Studies

8a  Challenging Stereotypes that Confine Women in Film and Television
    Chrystal Kim, Theatre, Film, and Digital Production
    Faculty Mentor: Dr. Stu Krieger, Theatre, Film, and Digital Production

8b  The Value of Actor Training in Enacting Social Change
    Sade Ayodele, Theatre, Film, and Digital Production
    Faculty Mentor: Dr. Bella Merlin, Theatre, Film, and Digital Production

8c  PBS: Publicly Biased Society
    Alice Cho, Media and Cultural Studies
    Faculty Mentor: Dr. Keun Pyo Park, Theatre, Film, and Digital Production
1:10 - 2:00 Session 9  HUB 379  Moderator: Dr. Kurt Anderson, Evolution, Ecology & Organismal Biology

9a  Functional Characterization of a Novel Human Phosphatase
Amrik Kang, Biology; Taylor Dennis, Biochemistry
Faculty Mentor: Dr. Jeff Perry, Biochemistry

9b  The Genetics of Type 1 Diabetes and the Extent of Effect to Incidence of the Disorder
Kevin Lee, Biology
Faculty Mentor: Dr. David Lo, Biomedical Sciences

9c  UC Neuro: Neuroscience Workshops for 6th Graders
Maximiliano Abundez Toledo, Lauren Lopez, Astha Gupta, Nahleh Koochak/Neuroscience
Faculty Mentor: Dr. Margarita Curras-Collazo, Molecular, Cell and Systems Biology; Dr. Tanya Nieri, Sociology

1:10 - 2:00 Session 10  HUB 367  Moderator: Dr. Jose Gonzalez, Mathematics

10a  Image Processing on Flow Visualization of Fire
Nataly Rosales Espitia, Mechanical Engineering
Faculty Mentor: Dr. Marko Princevac, Mechanical Engineering

10b  Structural Analysis of MIDAS site interactions in the C3d-CR3 complex
Sharon Gupta, Rohith Mohan/Bioengineering
Faculty Mentor: Dr. Dimitrios Morikis, Bioengineering

10c  Electrostatic Analysis of the Complex between Immune System Protein C5 and Therapeutic Antibody Eculizumab
Vivian Luong, Nehemiah Zewde/Bioengineering
Faculty Mentor: Dr. Dimitrios Morikis, Bioengineering

2:10 - 3:00 Session 11  HUB 355  Moderator: Dr. Liz Davis, Psychology

11a  We See Not the Spring: Watchmen, Rebirth, and the Disruption of DC’s Monomyth
Andrew McCarrell, English
Faculty Mentor: Dr. Richard Rodriguez, English; Dr. Emma Stapely, Media and Cultural Studies

11b  Hags: Queering the Postmenopausal Woman Through Myth
Elayne Bentley, English
Faculty Mentor: Dr. Richard Rodriguez, English, Media and Cultural Studies

11c  The Catacombs of Life and Other Romantic Thoughts
Angela Williams, English
Faculty Mentor: Dr. Ann Cheney, Social Medicine, Population and Public Health
### Session 12: 2:10 - 3:00

**HUB 367**

**Moderator:** Dr. Weiwei Zhang, Psychology

**12a** Black Queerness, Police Brutality, and Activism in Performing Art: Analyzing Todrick Halls’ Forbidden Album  
Jessica Delgado, English/Chicano Studies  
Faculty Mentor: Dr. Mzilikazi Kone, Ethnic Studies

**12b** Variability in Self-Rated and Informant Rated Personality with Personality Disorders  
Kayleigh Cousar, Psychology  
Faculty Mentor: Dr. David Funder, Psychology

**12c** A Study of Group Portraiture: The Anatomy Lesson of Dr. Nicolaes Tulp  
Debora Handojo, Psychology  
Faculty Mentor: Dr. Jeanette Kohl, Art History

### Session 13: 2:10 - 3:00

**HUB 379**

**Moderator:** Dr. Dimitrios Morikis, Bioengineering

**13a** The Effects of Neuregulin-1 on Microglial Cell State  
Michael Kasbar, Entomology  
Faculty Mentor: Dr. Byron Ford, Biomedical Sciences

**13b** Use of Printed Circuit Board and Piezoelectric Technologies in Microfluidics  
Mathew Schaffrath, Computer Science; Samantha Robinson, Bioengineering; Brian Crites, Entomology  
Faculty Mentor: Dr. Philip Brisk, Computer Science and Engineering

**13c** The Development of a Novel Osmometer for the Study of Macromolecular Crowded Environments  
Ramsey Batarseh, Bioengineering; Christopher Hale, Bioengineering  
Faculty Mentor: Dr. Victor G. J. Rodgers, Bioengineering

### Session 14: 3:10 - 4:00

**HUB 355**

**Moderator:** Dr. Christina Soto Van Der Pas, Hispanic Studies

**14a** How individual difference measures inform event processing in monolingual and early and late bilingual speakers  
Cloe Zeidan, English  
Faculty Mentor: Dr. Judith Kroll, Dr. Eleonora Ross, Psychology

**14b** Letters from Austrian immigrants in their departure to North and South America  
Sara Ceballos, Spanish concentration in Linguistics  
Faculty Mentor: Dr. Covadonga Lamar Prieto, Hispanic Studies

**14C** The rise of the Movimiento al Socialismo in post-neoliberal Bolivia; a model for decolonization, land redistribution, and granting rights to indigenous populations in Latin America  
Christian Lugo, Spanish  
Faculty Mentor: Dr. Freya Schiwy, Media and Cultural studies
3:10 - 4:00  Session 15  HUB 367  Moderator: Dr. Kate Sweeny, Psychology

Faye Lax, Sociology
Faculty Mentor: Dr. Tanya Nieri, Sociology

15b  SheHeroes: Promoting Positive STEM Identities in Young Women of Color
Navleen Naru, Psychology
Faculty Mentor: Dr. Kendrick Davis, School of Medicine

15C  Social Influence on Human Memory
Rachael Karp, Psychology
Faculty Mentor: Dr. Steven Clark, Psychology

3:10 - 4:00  Session 16  HUB 379  Moderator: Dr. Roya Bahreini, Environmental Sciences

16a  Effects of Adverse Childhood Experiences and Acute Negative Emotion on Visual Working Memory
JC Lynne Lu Sing, Neuroscience
Faculty Mentor: Dr. Weiwei Zhang, Psychology

16b  Ultra-diffuse galaxy evolution in simulations
Louis Penafiel, Physics
Faculty Mentor: Dr. Laura Sales, Physics and Astronomy

16C  Integrating Novel Functional Annotations and Enrichment Methods for Gene Sets into NGS Analysis Workflows
Gordon Mosher, Statistics
Faculty Mentor: Dr. Thomas Girke, Botany and Plant Sciences
SCHEDULE OF EVENTS

POSTER PRESENTATIONS

MONDAY, MAY 7, 2018
HUB 302

BCOE

A 1  IFN-γ Activates the JAK-STAT Signaling Pathway, Increasing Expression of the Inflammatory Bowel Disease Candidate Gene, PTPN2
Peter Abdou, Bioengineering
Faculty Mentor: Dr. Declan McCole, Biomedical Sciences

A 2  Fabrication of an Edema Reducing Osmotic Pressure Device
Roman Chaar, Bioengineering
Faculty Mentor: Dr. Victor Rodger, Bioengineering

A 3  Application of an Inclusion Body Tag ssTorA to Circumvent Degradation and Increase Quality of UBA2 Protein
Niloy Chakma, Bioengineering
Faculty Mentor: Dr. Jiayu Liao, Bioengineering

A 4  Effects of Weather Data on Fuel Moisture Modeling for a Fire Behavior Application
Matthew Choi, Mechanical Engineering
Faculty Mentor: Dr. Marko Princevac, Mechanical Engineering

A 5  Application and Characterization of Metal-Graphite Sponges
Evan Jauregui, Chemical Engineering
Faculty Mentor: Dr. Cengiz Ozkan, Mechanical Engineering
Faculty Mentor: Dr. Mihri Ozkan, Electrical and Computer Engineering

A 6  Engineering Lipid Droplets in Yarrowia Lipolytica as a Novel Synthetic Biological Tool
Joshua Misa, Chemical Engineering
Faculty Mentor: Dr. Ian Wheeldon, Chemical and Environmental Engineering

A 7  Determine the Immune signal-receptor, PD1 and PDL1, interactions in solution using qFRET technology
Mary Nwangwu, Bioengineering
Faculty Mentor: Dr. Jiayu Liao, Bioengineering

A 8  International Research Experience for Students (IRES) Program—Process and Device Simulation of Semiconductor Devices by TCAD
Rachel Wiggins, Mechanical Engineering
Faculty Mentor: Dr. Albert Wang, Electrical and Computer Engineering
CHASS

A 9  Does religiosity relate to cognitive functioning? An exploration with parent-child dyads
Brianna Cabrera, Psychology
Faculty Mentor: Dr. Rebekah Richert, Psychology

A 10  Relationship is key: Examining the effects of leadership schemas on follower outcomes
Daniel Choi, Psychology
Faculty Mentor: Dr. Thomas Sy, Psychology

A 11  Leaders who coach: An examination of Implicit Leadership Theories and Leadership Effectiveness
Justin Etheredge, Psychology
Faculty Mentor: Dr. Thomas Sy, Psychology

A 12  Psychological Experience Associated with Women Awaiting Breast Diagnosis
Lyshsae Otarola-Evans, Psychology
Faculty Mentor: Dr. Kate Sweeny, Psychology

A 13  Catching the Cognitive Consequences of Bilingual Language Processing on the Fly
Dalia Garcia, Linguistics
Faculty Mentor: Dr. Judith Kroll, Psychology

A 14  Mindfulness Predicts Lower RSA During a Negative Emotional Film, Suggesting Emotional Engagement
Israel Garcia Jr., Neuroscience; Safi Bajwa, Biology
Faculty Mentor: Dr. Elizabeth L. Davis, Psychology

A 15  Would you Rather go to the Library or a Party? Differences Between Bicultural and Monocultural Individuals in
Empathy, Communication skills, and Socio-emotional skills
Lydia Ghabour, Psychology
Faculty Mentor: Dr. Rebekah Richert, Psychology

A 16  Emotional Intensity Predicts the Elaborative Details in Adults’ Emotional Narratives, But Not for All Emotion
Contexts
Kyna Hernando, Psychology
Faculty Mentor: Dr. Elizabeth Davis, Psychology

A 17  The French Café Effect: Auditory Immersion and Second Language Reading Comprehension
Karen Jaranilla, Neuroscience
Faculty Mentor: Dr. Judith F. Kroll, Psychology

A 18  Do Adults Practice Effectively when Adjusting to Altered Motor Abilities?
Eli Labinger, Psychology
Faculty Mentor: Dr. John Franchak, Psychology
A 19 The Disappointing Day
Stephanie Lim, Psychology
Faculty Mentor: Dr. Daniel Ozer, Psychology

A 20 Zolpidem, administered at night, facilitates sleep-dependent consolidation of previous day learning
Rainita Narender, Psychology
Faculty Mentor: Dr. Sara Mednick, Psychology

A 21 The Relationship Between Adult Theory of Mind, Religiosity, and Belief in God
Emily Nelson & Megan Weimer, Psychology
Faculty Mentor: Dr. Rebekah Richert, Psychology

A 22 Foreign Direct Investment and Innovation: Heterogeneous International Evidence
Pete Pridanonda, Economics
Faculty Mentor: Dr. Dongwon Lee, Economics

A 23 Daytime psychostimulant administration may alter nighttime sleep architecture
Joana Leung, Biology
Faculty Mentor: Dr. Sara Mednick, Psychology

A 24 “Pistahan’: Stories of Filipino Americans”
Erin Rempola, Psychology Major and Ethnic Studies Minor
Faculty Mentor: Dr. Anthony Macias, Ethnic Studies

A 25 Developmental Dyslexia: A holistic approach towards diagnosing and rehabilitating
David Saenz, Psychology and Education
Faculty Mentor: Dr. Aaron Seitz, Psychology

A 26 Naming and Cognitive Control: Observing Cognitive Performance During Word Retrieval Across Monolinguals and Bilinguals
Nawaal Saeed, Biology
Faculty Mentor: Dr. Judith Kroll, Psychology

A 27 Digital Humanities and Paleographic Editions: A Methodology for California Historical Documents
Natalie Saffi, Hispanic Linguistics
Faculty Mentor: Dr. Covadonga Lamar Prieto, Hispanic Studies

A 28 Mixed Emotions Predict Less Negative Recall of Negative Emotional Situations and Better Memory
Erika Delos Santos, Psychology
Faculty Mentor: Dr. Elizabeth L. Davis, Psychology

A 29 Effects of Aging on Proactive Interference and Forgetting
Sydney Schabacker, Psychology
Faculty Mentor: Dr. Ilana Bennett, Psychology
A 30  The Productive Day  
Janene Soto, Psychology  
Faculty Mentor: Dr. Dan Ozer, Psychology

A 31  The Effect of the Great Recession on Economic Voting: A Factor of Education and Income  
Katrina Uyehara, Economics, Law and Society  
Faculty Mentor: Dr. Bree Lang, Economics

A 32  An Examination of the Links Between Affect-Biased Attention and Subsequent Processing of Negative Emotional Experiences  
Vivian Voong, Psychology  
Faculty Mentor: Dr. Elizabeth Davis, Psychology

A 33  The Scope of Attention Processing Influences The Breadth of Details In How People Describe A Sad Situation  
Guan Ling Yeh, Psychology  
Faculty Mentor: Dr. Elizabeth Davis, Psychology

A 34  A subset of brain neurons controls a sexually dimorphic proboscis holding behavior in adult Drosophila melanogaster  
Sameera Ahmad, Kush Amin, Biology  
Faculty Mentor: Dr. Anupama Dahanukar, Molecular, Cell, and Systems Biology

A 35  Nanoparticle enhanced detection of cholera toxin using surface plasmon resonance  
Vani Bhardwaj, Biology  
Faculty Mentor: Dr. Quan Cheng, Chemistry

A 36  Early-life exposure to brominated flame retardants impairs biological mechanisms associated with glucose homeostasis in mice  
Joseph Borenstein, Neuroscience  
Faculty Mentor: Dr. Margarita Curras-Collazo, Molecular, Cell and Systems Biology  
Faculty Mentor: Dr. Bhuvana Chinthirla, Molecular, Cell and Systems Biology

A 37  Utilization of Deep Cavitands to Bind Variable Guests and Elucidation of Their Interaction with Metals  
Samantha Byers, Biochemistry  
Faculty Mentor: Dr. Richard Hooley, Chemistry

A 38  Testing the Efficacy of Lutein and Zeaxanthin on Training of Vision and Cognitive Function  
Kevin Bui, Neuroscience  
Faculty Mentor: Dr. Aaron Seitz, Psychology

A 39  Understanding complex effects of climate on tree growth using ARIMA Modeling  
Edward Cabusora, Statistics  
Faculty Mentor: Dr. Jeffrey Diez, Department of Botany and Plant Sciences
A 40 The Development of a Sensitive Assay to Detect the Plant Hormone Strigolactone
Mei Cai, Microbiology
Faculty Mentor: Dr. David Nelson, Botany and Plant Sciences

A 41 Calibration of a Rapid-Response Ammonia Measurement System for Ambient Air Monitoring
Michelle Carr, Environmental Science
Faculty Mentor: Dr. Francesca Hopkins, Environmental Science

A 42 Using CRISPR to explore dry fruit development in desert tobacco
Eric Chang, Biology
Faculty Mentor: Dr. Amy Litt, Botany and Plant Sciences

A 43 Diversity and Structure of Meiofaunal and Microbial Communities in the Colville and Mackenzie River Plumes
Alejandro De Santiago, Microbiology
Faculty Mentor: Dr. Holly Bik, Nematology

A 44 The stable transformation of Datura stramonium using GFP
Kevan Elkins, Plant Biology
Faculty Mentor: Dr. Amy Litt, Botany and Plant Sciences

A 45 Using Fruit Flies to Discover What Controls Hatching Behavior in Insects
Lisa Faraee, Biology
Faculty Mentor: Dr. Naoki Yamanaka, Entomology

A 46 Utilizing the ops Elements and Transcriptional Antiterminator RfaH of Eukaryotic Genes in Escherichia coli
Victor Garcia, Biochemistry
Faculty Mentor: Dr. Gregor Blaha, Biochemistry

A 47 Impact of Western diet-induced obesity on ABHD-6 in mice pancreas and jejunal mucosa
Vishal Gupta, Biology
Faculty Mentor: Dr. Nicholas V. DiPatrizio, Biomedical Sciences

A 48 Developing Agrobacterium tumefaciens-Mediated Transient Expression for Cowpea
Katherine Hamrick, Cell, Molecular, and Development Biology
Faculty Mentor: Dr. Isgouhi Kaloshian, Nematology

A 49 Impaired PV and PNN Expression in CA1 Hippocampus May Underlie Contextual Recall Deficits After Auditory Fear Conditioning In FMR1 Knockout Mice
Yasmin Hanania, Neuroscience
Faculty Mentor: Dr. Iryna Ethell, Biomedical Sciences, School of Medicine

A 50 An Anomalously Large Protein Provides Possible Insights in Mosquito Sperm
Korbin Kleczko, Biochemistry
Faculty Mentor: Dr. Richard Cardullo, Evolution, Ecology, and Organismal Biology
Faculty Mentor: Dr. Catherine Thaler, Evolution, Ecology, and Organismal Biology
A 51  Cloning of CRISPR/Cas9 plasmid to induce knockout of FRUITFULL homologue MBP20
Jessica Le, Biology
Faculty Mentor: Dr. Amy Lit, Botany and Plant Sciences

A 52  The Role of Endonuclease PolyU-specific Enzyme in Thymocytes
Megan Lee, Biology
Faculty Mentor: Dr. Fedor Karginov, Cell Biology and Neuroscience

A 53  A Test of the M06-2X Functional for Alkane Conformations
Michael McClellan, Biochemistry
Faculty Mentor: Dr. Thomas Morton, Chemistry

A 54  Ex vivo Peyer’s patch imaging by confocal microscopy in the study of occludin’s role in M cell endocytosis
Sarah Miller, Cell, Molecular, and Developmental Biology
Faculty Mentor: Dr. David Lo, Biomedical Sciences. School of Medicine

A 55  In-vivo study of TANGLED1 and AIR9 in Arabidopsis thaliana using Microtubule Disrupting Drugs
Victoria Morris, Plant Biology
Faculty Mentor: Dr. Carolyn Rasmussen, Botany and Plant Sciences

A 56  Role of HOTAIRM1 in Clear Cell Renal Cell Carcinoma
Vanessa Neang, Biochemistry
Faculty Mentor: Dr. Ernest Martinez, Biochemistry

A 57  Kähler-Einstein Metrics on Compact Cohomogeneity One Fano Manifolds via Effective Approximations
Pilar Orellana, Mathematics
Faculty Mentor: Dr. Daniel Guan, Mathematics

A 58  Developing the Broad Adult Learning Questionnaire Short Form (BLAQ-S)
Samantha Peralta, Cellular, Molecular Developmental Biology
Faculty Mentor: Dr. Rachel Wu, Psychology

A 59  Immobilization of the Photoactive Protein Bacteriorhodopsin on Zinc Oxide for Bio-Sensitized Solar Cells
Duyen Pham, David Rangel, Claudia Villareal, Biology
Faculty Mentor: Dr. Ashok Mulchandani, Chemical and Environmental Engineering

A 60  Formica francoeuri Responses to Bee Pheromones and Cues
Phi Phan, Biology
Faculty Mentor: Dr. Erin Rankin, Entomology
Faculty Mentor: Dr. Jessica Purcell, Entomology

A 61  The Chemistry of Fluorinated High Spin Iron Complexes
Anser Qazi, Biochemistry
Faculty Mentor: Dr. Hill Harman, Chemical Sciences

A 62  Effects of Spatial Structure and Network Connectivity on Metapopulation Dynamics
Marilee Robbins, Biology
Faculty Mentor: Dr. Kurt Anderson, Evolution, Ecology, and Organismal Biology
A 63 Leaf morphological variation of Arctostaphylos glandulosa subspecies
Natalie Saavedra, Plant Biology
Faculty Mentor: Dr. Amy Litt, Botany and Plant Sciences

A 64 Analysis of Mouse Defensive Behaviors towards Predator Cues
Sunaina Santhiveeran, Neuroscience
Faculty Mentor: Dr. Sachiko Haga-Yamanaka, Molecular, Cell and Systems Biology

A 65 FMR1 Loss in Astrocytes leads to abnormal development of inhibitory neurons and perineuronal nets in mouse auditory cortex
Xinghao Steven Shuai, Neuroscience
Faculty Mentor: Dr. Iryna Ethell, Biomedical Sciences Division, School of Medicine

A 66 Blepharisma Plasticity and Trophic Interactions and Their Effect on Morphology
Justin Suh, Biology
Faculty Mentor: Dr. Kurt Anderson, Evolution, Ecology, and Organismal Biology

A 67 Analyzing c-Fos expression in the Accessory Olfactory Bulb of Mus Musculus in Response to Predator Cues
Aliza Tan, Biology
Faculty Mentor: Dr. Sachiko Haga-Yamanaka, Molecular, Cell and Systems Biology

A 68 Identification of Misfolded Proteins in a Stroke Model
Diana Torres, Biology
Faculty Mentor: Dr. Joseph Genereux, Chemistry

A 69 Astrocytes engulf synapses through the activation of reverse ephrin-B1 signaling *in vitro*
Simone Woodruff, Neuroscience
Faculty Mentor: Dr. Iryna Ethell, Biomedical Sciences

A 70 2D Transition Metal Dichalcogenide Alloys and Heterostructures Via Single-Step Growth With In-Situ Modification
Quinten Yurek, Physics
Faculty Mentor: Dr. Ludwig Bartels, Chemistry

A 71 The Genetic Basis for Inheritance of Life History Traits in Trinidadian Guppies
Simon Zhu, Biology
Faculty Mentor: Dr. David Reznick, Evolution, Ecology, and Organismal Biology
R’Courses

A72  Harry Potter: The Literary Phenomenon of the 21st Century
     Emilie De La Fuente, Psychology
     Faculty Mentor: Dr. John Briggs, English

A73  Introduction to Africana Philosophy
     Jo Gbujama, Philosophy
     Faculty Mentor: Dr. Dylan Rodriguez, Ethnic Studies

A74  The Art of Problem Solving: From Basics to Putnam
     Neima Ghandian, Mathematics, Pure
     Faculty Mentor: Dr. Xin Dong, Mathematics

A75  Critical Refugee Studies
     Zehra Qazi, Public Policy
     Faculty Mentor: Dr. Bronwyn Leebaw, Political Science

A76  Analysis of The Black Panther Comic: (Re) Imagining Black Identities and Futures
     William Roberts, Creative Writing
     Faculty Mentor: Dr. John Jennings, Creative Writing

A77  Animal Ethics
     Jaqueline Zavala, Philosophy/Psychology
     Faculty Mentor: Dr. Agnieszka Jaworska, Philosophy
SCHEDULE OF EVENTS

ORAL PRESENTATIONS

TUESDAY, MAY 8, 2018

7:30 - 8:45   Presenter Registration & Poster Setup
              HUB Lobby 3rd Floor

8:30   Registration Officially Opens
       HUB Lobby 3rd Floor

ORAL PRESENTATIONS

9:10 - 10:00    Session 17        HUB 355   Moderator: Dr. Alejandra Dubcovsky, History

17a  Science Suppressed: Aristarchus and the Effect of Authority
     Jordan Cohen, History
     Faculty Mentor: Dr. Denver Graninger, History

17b  Livia and Agrippina: Women in Politics in the Julio-Claudian Principate
     Erin Jenne, History
     Faculty Mentor: Dr. Michele Salzman, History

17c  The Vagrancy of Race Suicide Through the Early Twentieth Century: Fear Reimagined
     Debbie Arce, History
     Faculty Mentor: Dr. Dana Simmons, History

9:10 - 10:00    Session 18        HUB 367   Moderator: Dr. Perry Link, Comparative Literature

18a  Resolving Factors that Lead to the Misappropriation of Foreign Aid in Afghanistan
     Ihsan Hamid, Business
     Faculty Mentor: Dr. Raj Singh, School of Business

18b  A Family of Unequals: The Lived Experiences and Consciousness of Farmworkers in the Coachella Valley
     Mirella Deniz-Zaragoza, Sociology
     Faculty Mentor: Dr. Ellen Reese, Sociology
9:10 - 10:00 Session 19 HUB 379 Moderator: Dr. Rebeka Richert, Psychology

19a The Differences in STEM Feelings and Interest Between Boys and Girls
Brandon Ngo, Biology
Faculty Mentor: Dr. Rebekah Richert, Psychology

19b Imaging brain activity using head-mounted microscopes
Justin Pastore, Neuroscience
Faculty Mentor: Dr. Edward Korzus, Psychology

19c Functional Production of catalytic domain of MMP-12 using PROSS
Zachary Dunn, Chemical Engineering
Faculty Mentor: Dr. Xin Ge, Chemical and Environmental Engineering

10:10 - 11:00 Session 20 HUB 355 Moderator: Dr. Steven Brint, Sociology

20a Personality and GPA: The Predictive Roles of Academic Identity and College-Going Culture
Alysia Burbidge, Psychology
Faculty Mentor: Dr. Carolyn Murray, Psychology

20b Religious and Nonreligious Dating: Who’s More Satisfied?
Randle Aaron Villanueva, Psychology
Faculty Mentor: Dr. Rebekah Richert, Psychology

20c A Look into Mixed Race Experiences from Childhood Through College
Megan Weimer, Psychology
Faculty Mentor: Dr. Jennifer Najera, Ethnic Studies

10:10 - 11:00 Session 21 HUB 367 Moderator: Dr. Perry Link, Comparative Literature

21a The Disorientation of History in Rafa Esparza’s Work
Hugo Cervantes, English, Art History
Faculty Mentor: Dr. Jennifer Doyle, English

21b Towards a Ministry of Pleasure: The Use of Sexual Storytelling as a Sexual Education Tool as Heard on The Bawdy Storytelling Podcast
Stephanie Orozco, Anthropology
Faculty Mentor: Dr. Tamara Ho, Gender and Sexuality Studies

21c Effects of Language Learning on Domain General Cognitive Functions
Megan Nakamura, Psychology
Faculty Mentor: Dr. Judith Kroll, Dr. Eleonora Rossi, Psychology
10:10 - 11:00 Session 22  HUB 379  Moderator: Dr. Kelley Barsanti, Chemical & Environmental Engineering

22a Exploring Neuromodulatory Effects of Adenosine Deaminase from Emerald Jewel Wasp Venom
Cebrina Nolan, Entomology
Faculty Mentor: Dr. Michael Adams, Entomology

22b Eigenvalue Distributions of Random Matrices
Shannon Sweitzer, Mathematics
Faculty Mentor: Dr. Michael Hartglass, Mathematics and Computer Science

22c Academic Success Factors in K-12 Education: A Quantitative Analysis
Brianna Chew, Mathematics
Faculty Mentor: Dr. Asish Satpathy, Dr. Elaine Wong, Business Administration

11:10 - 12:00 Session 23  HUB 355  Moderator: Dr. Matthew King, Religious Studies

23a The Cuauhxicalli of the Aguirres: Stories
Stephanie Shatkin, Creative Writing
Faculty Mentor: Dr. Michael Jayme, Creative Writing

23b The Distortion of Feminism and Erasure of Non-Western Voices
Danielle Kennelly, Middle East and Islamic Studies
Faculty Mentor: Dr. Sherine Hafez, Gender and Sexuality Studies

11:10 - 12:00 Session 24  HUB 379  Moderator: Dr. Jingsong Zhang, Chemistry

24a Muscle Contraction in the Male Reproductive Tract of Culex Mosquitoes
Emily Harris, Cell, Molecular, and Developmental Biology
Faculty Mentor: Dr. Richard Cardullo, Evolution, Ecology, and Organismal Biology

24b White matter integrity and subclinical depression: A diffusion tensor imaging study
Nicole Huffman, Neuroscience
Faculty Mentor: Dr. Ilana Bennett, Psychology

24c In Silico Structural, Physicochemical, and Molecular Dynamics Analysis of the Complex between C-Reactive Protein and Phosphocholine
Siddharth Sai, Bioengineering; Rohith Mohan, Bioengineering
Faculty Mentor: Dr. Dimitrios Morikis, Bioengineering
12:00 – 1:00  Poster Sessions  HUB 302

ORAL PRESENTATIONS
1:00 – 2:30  Session 25  HUB 355  Moderator: Dr. Anika Speer, Theatre

25a  From Barrios to Bars: The School-to-Prison Pipeline and Its Impact on Four-Year College Enrollment Rates for Latino Youth
    Maritza Salazar, Sociology
    Faculty Mentor: Dr. Adalberto Aguirre, Sociology

25b  An Analysis of US President Donald Trump’s Administration Compared to Previous Autocratic Regimes
    Karina Tapia, Political Science/International Affairs
    Faculty Mentor: Dr. David Pion-Berlin, Political Science

25c  Criminalization of Poverty in Los Angeles
    Deja Aggrey, Political Science
    Faculty Mentor: Dr. Marissa Brookes, Political Science

25d  UN Protection of Human Rights
    Jasmin Chicas, Political Science and Philosophy
    Faculty Mentor: Dr. Yasemin Irepoglu Carreras, Political Science

2:30  SYMPOSIUM ENDS
SCHEDULE OF EVENTS

POSTER PRESENTATIONS

TUESDAY, MAY 8, 2018
HUB 302

BCOE

A 1  Polycaprolactone with Citric Acid Coated Iron Oxide Composite for Biomedical Applications
     Cole Azevedo, Materials Science and Engineering
     Faculty Mentor: Dr. Huinan Liu, Bioengineering

A 2  Improvement of Air Filtration Systems Through Carbon Nanotube Applications
     Robert Espinoza, Chemical Engineering
     Faculty Mentor: Dr. Joshua Morgan, Bioengineering

A 3  Dynamics of Actino-Myosin Cytoskeleton and Nucleus Rearrangement During Flow in Endothelial Cells
     Mher Garibyan, Bioengineering
     Faculty Mentor: Dr. Joshua Morgan, Bioengineering

A 4  Silicon Nanoparticle Sensitizers for Photon Upconversion in Biological Systems
     Carter Gerke, Chemical Engineering
     Faculty Mentor: Dr. Ming Lee Tang, Chemistry

A 5  Southern California Chaparral Crown Fire Transition Behavior
     Alejandro Gonzalez, Mechanical Engineering
     Faculty Mentor: Dr. Marko Princevac, Mechanical Engineering

A 6  Effects of Mg Surface Roughness on BMSCs Response
     Alexandra Ha, Bioengineering
     Faculty Mentor: Dr. Huinan Liu, Bioengineering

A 7  Investigation into the effect of pVIII and pIII protein modifications during M13 bacteriophage transformation
     Michelle Lai, Chemical Engineering
     Faculty Mentor: Dr. Elaine Haberer, Electrical and Computer Engineering

A 8  Biosynthetic Pathway of Abscisic Acid
     Yosuf Mansour, Chemical Engineering
     Faculty Mentor: Dr. Yanran Li, Chemical and Environmental Engineering
A 9  Energy Absorptive Bio-mineralized Seed Coatings: The Final Defense Against Forest Fires
Sarah McElligott, Chemical Engineering
Faculty Mentor: Dr. David Kisailus, Chemical and Environmental Engineering

A 10 A Facile, pH-Tuned, Aqueous Synthesis of Copper Nanowires and Related Applications
Austin Mok, Environmental Engineering
Faculty Mentor: Dr. Ruoxue Yan, Chemical and Environmental Engineering

A 11 Improving the performance of a GPU based computational implementation of the mathematical model to study epithelial cells
Phillip Park, Computer Science
Faculty Mentor: Dr. Mark Alber, Mathematics

A 12 Low Cost “Microfluidic Thermometers” for Measuring Freezing Point
Jessica Robles-Najar, Bioengineering
Faculty Mentor: Dr. William H. Grover, Bioengineering

CHASS

A 13 The Evolutionary and Modern-Day Analysis of Parkinson’s Disease from Sources Old and New
Kishore Athreya, English
Faculty Mentor: Dr. Richard Rodriguez, English
Faculty Mentor: Dr. David Song, School of Medicine
Faculty Mentor: Dr. Richard Cardullo, Evolution, Ecology, and Organismal Biology

A 14 Do Kids Really Know What it Means to be Heartless?
Kassandra Avila, Psychology
Faculty Mentor: Dr. Rebekah Richert, Psychology

A 15 Temporal Variability as a Predictor in Cognitive Decision Making
Bill Vu Bui, Psychology
Faculty Mentor: Dr. David Rosenbaum, Psychology

A 17 Individual Differences in Local-Global Processing Predict Delayed Recall of Negative Emotional Words
Stephen Campbell, Psychology
Faculty Mentor: Dr. Elizabeth Davis, Psychology

A 18 UCDC Metropolitan Police Department
Yulissa Cardoza, Sociology and Spanish
Mentor: Jessica Medvec, Undergraduate Education

A 19 Measuring abnormal activity in the auditory system of wildtype and fragile X mice using c-Fos protein expression
Victoria Gutierrez, Biology
Faculty Mentor: Dr. Khaleel Abdul Razak, Psychology
<table>
<thead>
<tr>
<th>#</th>
<th>Title</th>
<th>Author(s)</th>
<th>Department(s)</th>
<th>Faculty Mentor(s)</th>
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<tbody>
<tr>
<td>A20</td>
<td>Adaptation to Interference in a Naming Task</td>
<td>Jeneane Hamideh, Neuroscience</td>
<td>Neuroscience</td>
<td>Dr. Judith Kroll, Psychology</td>
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<tr>
<td>A21</td>
<td>UCDC: Voto Latino and the impact it has on millennial voters</td>
<td>Karla Hernandez, Sociology</td>
<td>Sociology</td>
<td>Jessica Medvec, Undergraduate Education</td>
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<tr>
<td>A22</td>
<td>The Role of Language Dominance in Emotion Processing in Bilinguals</td>
<td>Samreen Kazi, Biology</td>
<td>Biology</td>
<td>Dr. Judith Kroll, Psychology</td>
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<tr>
<td>A24</td>
<td>Parental Intrusiveness Relates to Children’s Physiological Recovery from Frustration</td>
<td>Melina Romo Loera, Emily W. Shih, Psychology</td>
<td>Psychology</td>
<td>Dr. Elizabeth L. Davis, Psychology</td>
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<tr>
<td>A25</td>
<td>The Biosemiotics of Acupoint Biophoton Emissions Testing</td>
<td>Montserrat Llosa, Anthropology</td>
<td>Anthropology</td>
<td>Dr. Sally Ness, Anthropology</td>
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<td>A26</td>
<td>Foreigners and Fascism: Collective Identities and Social Movements</td>
<td>Mariela Villalba Madrid, Sociology</td>
<td>Sociology</td>
<td>Dr. Christopher Chase-Dunn, Sociology</td>
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<td>A27</td>
<td>Parent-Child Correspondence in Concepts of God and Germs</td>
<td>Katharine Munning, Psychology</td>
<td>Psychology</td>
<td>Dr. Rebekah Richert, Psychology</td>
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<tr>
<td>A28</td>
<td>Individual Differences in Children’s Emotion Regulation Capacity Moderate the Relation between Parental Intrusiveness and Children’s Physiological Regulation</td>
<td>Nancy N. Nguyen, Psychology</td>
<td>Psychology</td>
<td>Dr. Elizabeth L. Davis, Psychology</td>
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<tr>
<td>A29</td>
<td>Dreams Attained: The impact of Undocumented Student Resources at UC Campuses</td>
<td>Rubyd Olvera, Sociology</td>
<td>Sociology</td>
<td>Dr. Jennifer Najera, Ethnic Studies</td>
</tr>
<tr>
<td>A30</td>
<td>Does language immersion benefit new language learning?</td>
<td>Mildred Rangel, Psychology</td>
<td>Psychology</td>
<td>Dr. Judith Kroll, Psychology</td>
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<tr>
<td>A31</td>
<td>Public Health Intervention Assessing Health Needs of Afghan Refugee Women in Riverside through Community-based Research</td>
<td>Maria Razo, Public Policy and Political Science</td>
<td>Public Policy and Political Science</td>
<td>Dr. Andrew Subica, School of Medicine</td>
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</table>
A 32  Academic Achievement and Coping  
Rachel Richardson, Psychology  
Faculty Mentor: Dr. Rebekah Richert, Psychology

A 33  Age and Gender Differences in STEM Performance in Preschoolers  
Kelsey Rocha, Psychology  
Faculty Mentor: Dr. Rebekah Richert, Psychology

A 34  Implicit Leadership Theory: Subordinate Job Satisfaction as it relates to Conceptions of Leaders  
Janene Soto, Psychology  
Faculty Mentor: Dr. Thomas Sy, Psychology

A 35  The effects of second language learning on cognitive control  
Sanna Tahir, Psychology  
Faculty Mentor: Dr. Christine Chiarello, Psychology

A 36  The Effect of Societal Language on Sentence Comprehension in Early Bilinguals  
Nelson Tian, Statistics  
Faculty Mentor: Dr. Judith Kroll, Psychology

A 37  Confronting the Possibility of Cancer: A Qualitative Analysis of Distress at a Biopsy Appointment  
Hannah Tamez, Psychology  
Faculty Mentor: Dr. Kate Sweeny, Psychology

A 38  Psychostimulant’s disruption of sleep has minimal impact on post-sleep working memory performance  
Tina Vo, Psychology  
Faculty Mentor: Dr. Sara Mednick, Psychology

A 39  Does the Dominance Switch in Bilinguals Influence How They Use Their Two Languages?  
Dennis Wu, Psychology  
Faculty Mentor: Dr. Judith Kroll, Psychology

A 40  Applications of Video Game Design to Working Memory Training  
Anni Yao, Business Administration - Information Systems  
Faculty Mentor: Dr. Aaron Seitz, Psychology

A 41  Determinants of the First Job Match  
Kenneth Zalke, Business Economics  
Faculty Mentor: Dr. Carolyn Sloane, Economics
| A 42 | Disruption of social behavior but not olfactory discrimination in adult male and female mice offspring exposed to indoor flame retardants during perinatal development  
Valeria Carrillo, Biology  
Faculty Mentor: Dr. Margarita Curras-Collazo, Molecular, Cell, and Systems Biology |
| A 43 | Visualizing Plant Water Stress Through a New Optical Method  
Manika Choudhary, Biology  
Faculty Mentor: Dr. Louis Santiago, Botany and Plant Sciences |
| A 44 | Investigation of the effect of extremes in water availability on suberin accumulation in rice  
Christine Duvenjian, Biology  
Faculty Mentor: Dr. Julia Bailey-Serres, Botany and Plant Sciences  
Faculty Mentor: Dr. Mauricio Reynoso, Botany and Plant Sciences |
| A 45 | Skin Regeneration Promoted by Hydroxyamino Acid-rich Matrikine Lipopeptides  
Andrew Encinas, Biochemistry  
Faculty Mentor: Dr. Michael Pirrung, Organic Chemistry |
| A 46 | Selective Breeding and Exercise Affect Midbrain and PAG Volume in Mice  
Raymond Ezzat, Biochemistry  
Faculty Mentor: Dr. Theodore Garland Jr., Biology |
| A 47 | Synthesis of Unique Spiroyclic Alpha-tetrasubstituted Amines as Potential Drugs  
Sumbul Haider, Biology  
Faculty Mentor: Dr. Catharine Larsen, Chemistry |
| A 48 | Polydopamine-Lipid Interface for SPR Sensing  
Chathu Keerthisinghe, Microbiology  
Faculty Mentor: Dr. Quan Jason Cheng, Chemistry |
| A 49 | The Use of Motivational Interviewing to Enhance Smoking Cessation for the Underserved in a Free Clinic Setting  
Hyemin Kim, Biology  
Faculty Mentor: Dr. Brandon Brown, School of Medicine |
| A 50 | Kappa and Delta Opioid Receptors in the Lateral Septum in the Control of Feeding  
Esther Kuan, Biochemistry  
Faculty Mentor: Dr. Glenn Stanley, Neuroscience |
| A 51 | Molecular barcoding and pathogenicity of unknown Phasmarhabditis (Nematoda) species from Earthworms  
Nicole Leung, Biology  
Faculty Mentor: Dr. Irma De Ley, Nematology  
Faculty Mentor: Dr. Timothy Paine, Entomology |
A 52  Fragment-Based Structural Studies Targeting Age-Related Macular Degeneration
Erica Li, Biology
Faculty Mentor: Dr. Jeff Perry, Biochemistry

A 53  The Role of NS5 in Zika Virus RNA Capping
Eric Lin, Biochemistry
Faculty Mentor: Dr. Sean O'Leary, Biochemistry
Faculty Mentor: Dr. Rong Hai, Microbiology and Plant Pathology

A 54  Litter decomposition rates in semi-arid ecosystems are driven by geographical aspect differences
Andrew Loera, Biology
Faculty Mentor: Dr. Darrel Jenerette, Botany and Plant Sciences

A 55  Assigning putative functions to different regions of the RIC8 protein, an important regulator of G protein signaling
Berenise Lopez-Lopez, Biology
Faculty Mentor: Dr. Katherine Borkovich, Microbiology and Plant Pathology

A 56  Computational Model of Stem Cell Mechanics and Maintenance in Plants
Jamie Madrigal, Amber McKeough, Mikahl Banwarth-Kuhn, Computational Mathematics, Mathematics
Faculty Mentor: Dr. Mark Alber, Mathematics

A 57  The effect of harm reduced tobacco products on FOXOs
Hannah Navarrete, Biochemistry
Faculty Mentor: Dr. Nicole zur Nieden, Molecular, Cell and Systems Biology

A 58  Particle Identification in Heavy Ion Collisions
Jesus Negrete, Physics
Faculty Mentor: Dr. Richard Seto, Physics and Astronomy

A 59  Building a Farm-Scale Database of California Dairy Activity for Improved Methane Emission Inventories
Julie Nguyen, Environmental Science
Faculty Mentor: Dr. Francesca Hopkins, Environmental Science

A 60  A novel data science approach for constraining supersymmetric mass value predictions
Syris Norelli, Physics
Faculty Mentor: Dr. Flip Tanedo, Physics and Astronomy

A 61  Hippocampal Neuropathology in Patients with Seizures Secondary to Multiple Sclerosis
Karen Parra, Biology
Faculty Mentor: Dr. Seema Tiwari-Woodruff, Biomedical Sciences

A 62  The effects of host-feeding behavior of Tamarixia radiata on the dynamics of parasitoid-host interactions, and the implications for classical biological control in California
Carly Pierce, Environmental Science
Faculty Mentor: Dr. Mark Hoddle, Entomology
A 63 Screening for potential NMD inhibitors within the FDA drug library
Ruchira Puri, Biology
Faculty Mentor: Dr. Sika Zheng, Biomedical Sciences

A 64 Metal Concentrations in Electronic Cigarette Aerosols and Refill Fluid
Dalia Rahman, Neuroscience
Faculty Mentor: Dr. Prudence Talbot, Molecular, Cell and Systems Biology

A 65 Use of CRISPR to Study the Function of the MBP20 Gene in Transitions Between Dry and Fleshy Fruits
Victoria Rios, Statistics
Faculty Mentor: Dr. Amy Litt, Botany and Plant Sciences

A 66 Effects of Reproduction on Morphology of Male California Mice
Alexis Rodriguez, Neuroscience
Faculty Mentor: Dr. Wendy Saltzman, Evolution, Ecology, and Organismal Biology

A 67 Diphenylhexatriene and PbS Quantum Dot Hybrid Thin Film Transistors
Beverly Ru, Chemistry
Faculty Mentor: Dr. Ming Lee Tang, Chemistry

A 68 Developing an effective approach of genetic editing within whiteflies using the CRISPR-Cas9 system
Simran Sandhu, Biochemistry
Faculty Mentor: Dr. Peter Atkinson, Entomology
Faculty Mentor: Dr. Linda Walling, Botany and Plant Sciences

A 69 Role of Cas adaptor proteins in cerebellar cortex development
Alexander Taft, Neuroscience
Faculty Mentor: Dr. Martin Riccomagno, Neuroscience

A 70 Probing the connection between DNA replication and Telomore protection using saccharomyces
Parth Upadhyay, Neuroscience
Faculty Mentor: Dr. Constance Nugent, Molecular, Cell & Systems Biology

A 71 Unravelling the Genetic Basis of Whitefly Resistance in Arabidopsis
Natalie Urrea, Cell, Molecular, and Developmental Biology
Faculty Mentor: Dr. Linda Walling, Botany and Plant Sciences

A 72 The Effects of the Poly(A)-Binding Protein on mRNA Translation
Chalisar Vasnarungruengkul, Biology
Faculty Mentor: Dr. Sean O'Leary, Biochemistry

A 73 Reducing the Combinatorics of High Jet Multiplicity Decays in RPV SUSY
Thomas Waddleton, Physics
Faculty Mentor: Dr. Owen Long, Physics and Astronomy
A 74 The relationship between climate change and tourism in the Coachella Valley, California  
Cindy Yanez, Physics  
Faculty Mentor: Dr. Francesca Hopkins, Environmental Science

A 75 Inhibition of endocannabinoid signaling in adipose tissue increases body heat generation  
Crystal Nguyen, Biology  
Faculty Mentor: Dr. Nicholas DiPatrizio, Biomedical Sciences

SoM

A 76 Interactions Between Endocannabinoids and Leptin Receptor in Diet Induced Obesity  
Rishi Nanda, Psychology  
Faculty Mentor: Dr. Nicholas DiPatrizio, Biomedical Sciences

R’Courses

A 77 Microexpressions: Glimpses of the truth or not?  
Brianna Cabrera, Psychology  
Faculty Mentor: Dr. Elizabeth Davis, Psychology

A 78 Under the Electric Sky  
Ashley Lopez, Media and Cultural Studies  
Faculty Mentor: Dr. James Tobias, English

A 79 Food Security and Food Justice?  
Audrey Lim, Neuroscience  
Faculty Mentor: Dr. Chikako Takeshita, Gender and Sexuality Studies  
Faculty Mentor: Dr. Dana Simmons, History

A 80 Indian Classical Music and Mental Health  
Harlove Singh, Psychology  
Faculty Mentor: Dr. Lawrence Rosenblum, Psychology

3:30 SYMPOSIUM ENDS
THANK YOU TO THE CAMPUS PARTNERS WHO MADE THE SYMPOSIUM A GREAT SUCCESS!

- **Faculty Moderators**
- **Oral Presentation Evaluators**
- **Poster Judges**
- **College Deans**
- **Undergraduate Education Team**
- **Undergraduate Education Finance & Administration Team**
- **UE Student Ambassadors**