CREATIVE ACTIVITY & RESEARCH DAY

7th Annual Day of Celebration
April 28, 2017 • Fromm Hall - FR Complex
10:00 am—3:00 pm
Welcome from the Dean of the College of Arts and Sciences

Marcelo Camperi

I strongly believe that student participation in faculty research and creative work is an essential component of well-rounded college formation. The opportunities for collaboration with faculty that our students find within the College of Arts and Sciences are indeed a distinguishing characteristic of what USF has to offer. I am thrilled and excited with the chance that this event gives us to present to the USF community the amazing work that our students and faculty are doing together. This Creative Activity and Research Day is one of a series of opportunities to showcase what we are doing in the College of Arts and Sciences.

Please visit our webpage devoted to Research & Creative Activities: https://myusf.usfca.edu/arts-sciences/card
CARD Schedule of Events

Poster Viewing
10:00AM – 3:00PM

Poster Session with Student Presenters
11:00AM – 1:00PM

Research Talks in Maier
10:40AM – 3:00PM

Session #1 - Moderator, Prof. Amie Dowling, Performing Arts
Kirstin Thordarson, Paula Birnbaum, & Catherine Lusheck; Art History
Marysa Robinson; Performing Arts & Social Justice
Daaniyal Mulyadi; Rhetoric & Language
10:40AM

Break
11:40AM - 12:20PM

Session #2 - Moderator, Prof. Saralyn Ruff, Psychology
John Onoja; Economics
Dominique Dollenmayer; Art History
Rafael Panlilio; Economics
Emily Adsit; Performing Arts & Social Justice
12:20PM

Session #3 - Moderator, Prof. Michael Rozendal, Rhetoric & Language
Madison Amido; Communication Studies
Andrew Wilson; Architecture & Community Design
Miranda Hirujo; Architecture & Community Design
Steven Navarro; Architecture & Community Design
1:40PM

Research Talks in Broad
11:20AM – 2:20PM

Session #1 - Moderator, Prof. John Paul, Biology
Samuel Haaf, Angelica Perez-Andujar, Gilmer Valdez, Timothy Solberg, & Vasant Kearney; Analytics
Paula Pereira; Environmental Science
Nick Mendler; Mathematics
11:20AM

Break
12:20PM - 12:40PM

Session #2 - Moderator, Prof. Janet Yang, Chemistry
Peter Geron & Hank Deuermeyer; Chemistry
Philip Murray; Environmental Science
12:40PM

Session #3 - Moderator, Prof. Naupaka Zimmerman, Biology
Ruixuan Zhang, Lin Chen, Rui Li, & Yige Liu; Analytics
1:20PM
Roxxana Valeria Beltran Valencia & Ryan Jann; Biology
Christelle Bamona; Economics
1:40PM
2:00PM
DEMONSTRATIONS

India Buckley-Becknell, Cortni Wong, and Ray Wang
ThisWon
Computer Science

Monica Metzger, Gilbert Chan, & Joseph Perez
Trip Planner
Computer Science

UNDERGRADUATE POSTERS

BIOLOGY

B1
Dominique Mitchell and Victor Gavallos
The Role of DAX-1 in the Steroidogenic Pathway in Breast Cells

B2
Ryan Jann and Roxxana Beltran
The Regulatory Role of DAX-1 (NROB1) in Prostate Cancer Cell Proliferation from Androgen Receptor Stimulation

B3
Theresa Keith
Phytoplankton Species Succession in San Francisco Bay (Sept 2015-March 2017)

B4
Brian Lu
DNA Replication Delay is ATM Dependent in Transcription Coupled Repair Deficient Cells

B5
Alyssa Mullenix
The Role of Pluripotency Genes in Germline Development

B6
Patrick Woods
Determining the Geographic Origin of Eschscholzia Californica; the California Poppy

B7
Sebastian El Ghauty-Beckley, and Patricia Ilao
Tracing the Phylogenetic Distribution of Phytochemical Properties Across the Diverse Plant Clade Psychotriae (Rubiaceae)

B8
Joy Kim
Impact of Human Cytomegalovirus Infection on Host Stress Response Genes

B9
James B. Vu, Robert W. Osorio, Stewart L. Cooper, and Raphael B. Merriman
Long Term Prevention of Recurrent Hepatitis B After Liver Transplantation Using
Nucleos(t)ide Analogues After HBlg Discontinuation

B10
Emma Gibson
Fungal Endophytes in Metrosideros Excelsa Across San Francisco

B11
Vivien Glocker
Analysis of Postprandial Blood Glucose Curves for Optimization - a Group Trial with Type 1 Diabetics and Non-Diabetics

B12
Andrea Esparza, Joy Kim, and Ryan Jann
Tenderloin Safe Passage: Senior Safety Assessment

CHEMISTRY

C1
Kelechi Nwachuku and Yasmin Fathi
Study of the O(3P) Initiated Oxidation of 2-Methylfuran via Synchrotron Multiplexed Photoionization Mass Spectrometry

COMMUNICATION STUDIES

CM1
Amanda Geraldo
Daughter’s Perception of Memorable Messages Given by Her Mother

CM2
Ashley M. Liu, Shannon Ku, Ryan J. Qiu, Wanyi Chen, Melissa Chen, Don Ng, Maria T. Chao, & Jane Jih
Heart Healthy Integrative Nutritional Counseling (H2INC): Creating a Chinese Medicine + Western Medicine Patient Education Curriculum for Chinese Americans with Heart Disease

COMPUTER SCIENCE

CS1
Thomas Oropeza, Leonard Fernando, and Tim Siwula
App Inventor Java Bridge

INTERNATIONAL STUDIES

IS1
Sofia Diane Skavdahl
Losing to the Law: Understanding the Marital Rape Exception

KINESIOLOGY

K1
Kennedy Wischmeyer, Jessica Manalang, Elton Rangel, and Zachary Siebel
The Relationship Between Upper Limb Anthropometry and Vertical Jump Height

MEDIA STUDIES
ME1
Sarah Frei, Karen Trinidad, and Sage Yockelson
**Experimental Cinema: Direct Animation on 16mm Film**

**PERFORMING ARTS**

P1
Kiana Budzinski
**Breathe In, Breathe Out: A Performance Autoethnography**

**PSYCHOLOGY**

PS1
Vivienne Pismarov
**Obsessive-Compulsive Disorder: Causes and Impacts**

PS2
Nancy Elizabeth Ortega, Dana-Lis Bittner, Jacqueline Tiongco, and Ana Maria Hoffman
**Considering Alternative Causes When We Learn About Research: A Qualitative Analysis**

PS3
Rose Mannas, Lisa S. Wagner, and Olivia Traina
**Generation to Generation: Lessons Learned from an Intergenerational College Social Club**

**GRADUATE POSTERS**

**ASIA PACIFIC STUDIES**

AP1
Damon Dohe, Daniel Shin
**Korean-ness: Creating and Embracing New Identities Through Language and Culture**

AP2
Dessie Miller
**Celebrating the Feminine: Daoist Connections to Contemporary Feminism in China**

**BIOLOGY**

B13
Erin Dishington, Hai Nguyen, Michael Totagrande, Shih-Yin Chen, and Meriam Vejiga
**Orphan Nuclear Receptor, DAX-1, Expression During Progressive Stages of Invasive Ductal Carcinoma**

B14
Genevieve Chiong, Heidi Schmelzer, and Arryan Emamian
**Mechanisms of Postembryonic Polarity Modification in the Acoel Convolutriloba Longifissura**

B15
Alexandra Gonzalez
Racing Against Amphibian Extinction

B16
Nila Le
Between a Rock and a Hard Place: Climate Change and Limited Distribution of the California Native Plant Arabis Blefarophylla (Brassicaceae)

B17
Kaitlin Branch
Infection of Breast Tumor Cells with Human Cytomegalovirus

B18
Karen Evans, Daniel Vizconde, Emma Gibson, and Jennifer Rodriguez
Play Behavior and Responses to Novel Situations in Juvenile Ground Squirrels

CHEMISTRY

C2
Chelsea Price
Cl-initiated Oxidation of Propargylamine via Synchrotron Multiplexed Photoionization Mass Spectrometry

C3
Heejune Park
Reduction of Carbon Dioxide with Superalkali

C4
Yasmin Fathi, Patrick Hemberger
Photoionization and Photodissociation of Xylyl (Methylbenzyl) Bromide Isomers using VUV Synchrotron Radiation

C5
Yuning Shen, Wan-chen Cindy Lee
Palladium-Catalyzed ortho-Arylation of Benzamides Using a Removable Directing Group

C6
Michael Winslow
Nanodiscs: A Novel Approach to Studying the Methionine ABC Transporter System

C7
Wan-Chen Cindy Lee, Yuning Shen, Arya Tehrani
2-Aminophenyl-1H-pyrazole as a Removable Directing Group for Metal-Mediated C-H Amidation, Sulfonamidation, Chlorination and Fluorination of Aromatic Rings

C8
Erica Carrasco
Synchrotron Photoionization Investigation of CH Radical with Furan and 2-Methylfuran at 298 K

C9
Matthew Winfough
Investigation on the Absolute and Relative Photoionization Cross Sections of Three Potential Propargylic Fuels
C10
Adam Otten
Synchrotron Multiplexed Photoionization Mass Spectrometry of Cl-Initiated Oxidation of Tetraphydropyrane (THP) at 298 K.

COMPUTER SCIENCE

CS2
Thanawut Ananpiriyakul
Using Face Tracking for Computationally-Efficient Visualization of Large Vector Data

CS3
Claire Broad
Candidate Entry Identification for Maintenance of an Online Dictionary

CS4
Shiyi Tan
Exploring Leap Motion for Intuitive Interaction of Scientific Data

ECONOMICS

E1
Miranda Lambert
La Madre Competitiva: An Experimental Study of Women's Competitiveness in Medellin, Colombia

E2
Felipe Rodriguez
Reducing the Vulnerability of Refugees through their Reintegration: The Case of the Syrian Refugees in Jordan

E3
Joseph Kemler
Aspirations as a Component of Life Satisfaction; A Look at Female Microfinance Borrowers in Oaxaca, Mexico

E4
Rafael Panlilio
Drawings from Syria's Lost Generation: Psychological Impacts of the Syrian Refugee Crisis

E5
Berenger Djoumessi Tiague, Solomon Asfaw
Agricultural Technology adoption and Adaptation Strategies

E6
Christelle Bamona
Rise of the Maquiladoras and Crimes in Mexico

E7
Meyhar Mohammed
Does Marketing and Gender impact Condom Sales in Uganda?
Abha Indurkar
*Generating Estimates of Sensitive Behaviors through List Randomization: Survey Experiment among Indian Males*

E9
Daniel Salicath
*The Effectiveness of Goals on Achieving Educational Outcomes: Experimental Evidence from disadvantaged 9th Graders in Medellin, Colombia*

E10
Matthew Krupoff
*Income Shocks and the Acceptance of Intimate Partner Violence in Indonesia*

**ENVIRONMENTAL SCIENCE**

EN1
Radhika Bhargava, Megan Danielson, Fernanda Lopez-Ornelas
*Building Capacity to Monitor Land Cover and Land Change in the Lower Mekong Region*

EN2
Megan Danielson, Fernanda Lopez-Ornelas
*Innovations in Measuring and Managing Forest Carbon Stocks in California*

EN3
Viktoria Kuehn
*Plankton Species Diversity and Abundance from the San Francisco Bay to the Greater Farallones National Marine Sanctuary*

EN4
Alexandra Lepeschkin-Noel
*Wildfire and the Invasive Giant Reed (Arundo donax): Mapping and Managing the Changing Riparian Ecosystem of the Santa Clara River*

**MATHEMATICS**

M1
Cameron Carlin, Mikaela Hoffman-Stapleton
*BART Ridership Forecast and Covariate Analysis*

**RESEARCH TALKS**

**TALKS IN MAIER**

10:40AM – 11:00AM
Kirstin Thordarson, Paula Birnbaum, & Catherine Lusheck
*Picturing Buttes Chaumont: Constructions of Nature and Modernity in Nineteenth Century France*
*Art History*

11:00AM – 11:20AM
Marysa Robinson
The Nones
Performing Arts & Social Justice

11:20AM – 11:40AM
Daaniyal Mulyadi
The Precarity of Rights
Rhetoric & Language

12:20PM – 12:40PM
John Onoja
Financial Sector Development and Agricultural Productivity
Economics

12:40PM – 1:00PM
Dominique Dollenmayer
L’Algérie: Orientalism and its Colonial Roots
Art History

1:00PM – 1:20PM
Rafael Panlilio
Drawings from Syria’s Lost Generation: Psychological Impacts of the Syrian Refugee Crisis
Economics

1:20PM – 1:40PM
Emily Adsit
them/us/me
Performing Arts & Social Justice

1:40PM – 2:00PM
Madison Amido
“They’re Badass. You Defy the Odds”: First Generation Students with Immigrant Parents Communicate About College Experiences
Communication Studies

2:00PM – 2:20PM
Andrew Wilson
Deciphering Informality in the Built Environment
Architecture & Community Design

2:20PM – 2:40PM
Miranda Hirujo
Valuing the Intrinsic of Gentrification
Architecture & Community Design

2:40PM – 3:00PM
Steven Navarro
Remediating Brownfields One School at a Time
Architecture & Community Design

TALKS IN BROAD

11:20AM – 11:40AM
Samuel Haaf, Angelica Perez-Andujar, Gilmer Valdez, Timothy Solberg, & Vasant Kearney
Automated Radiation Treatment Therapy  
*Analytics*  
11:40AM – 12:00PM  
Paula Pereira  
**How Mycorrhizal Fungi and Tropical Tree Species Mutualistic Interactions can be Utilized for Restoration and Reforestation of Tropical Rainforest Ecosystems**  
*Environmental Science*  

12:00PM – 12:20PM  
Nick Mendler  
**Fractal Binary Trees**  
*Mathematics*  

12:40PM – 1:00PM  
Peter Gernon & Hank Deuermeyer  
**Synthesis of Silica Nanoparticles and Subsequent Functionalization for use as Fluorescent Chemosensors**  
*Chemistry*  

1:00PM – 1:20PM  
Philip Murray  
**Wilderness Character: a Geospatial Analysis**  
*Environmental Science*  

1:20PM – 1:40PM  
Ruixuan Zhang, Lin Chen, Rui Li, & Yige Liu  
**Machine Learning Based Product Recommendation using Apache Spark**  
*Analytics*  

1:40PM – 2:00PM  
Roxxana Valeria Beltran Valencia & Ryan Jann  
**Regulation of Proliferation in Prostate Cancer Cells by DAX-1 (NROB1), an Androgen-induced Orphan Nuclear Receptor**  
*Biology*  

2:00PM - 2:20PM  
Christelle Bamona  
**Rise of the Maquiladoras and Crimes in Mexico**  
*Economics*
Please visit our website devoted to research & creative activities:
www.myusf.usfca.edu/arts-sciences/card