

2022 Research Symposium Schedule

Wednesday, July 27

Time	Talk
9:00 AM	Opening Remarks
9:04 AM	Julianne Wu Validating the Use of Designer Receptors in Manipulating Reward Projections During Methamphetamine Use in B6 Mice
9:16 AM	Alok U. Thakrar Investigating Liquidity Providers' Returns in Layer 2 Decentralized Finance Platforms
9:28 AM	Sean Lee Cryptocurrency Wallet Analysis: Investigating Individual Trader Behavior on Layer 1 and Layer 2 Blockchain Networks
9:40 AM	Sachi D. Patel Utilizing Molecular Dynamics Simulations to Investigate Small Molecules Targeting Alzheimer's Related Peptide A β (25–35)
9:52 AM	Michael Young Efficient Diagnostics for Assessing Mobility Patterns in the Los Angeles Metropolitan Area
10:04 AM	Lisa Fung Data Fusion for Movement Analytics: Evaluating Mobility Patterns During Wildfire Season
10:16 AM	Suhana Shrivastava Human Mobility During the COVID-19 Pandemic: Generating Interactive Visualizations for Movement Pattern Analysis
10:28 AM	Intermission
10:48 AM	Angela Zhang Creative Pipeline for Developing Mixed Reality Theater Experience in a Wide-Area Augmented Environment
11:00 AM	Joshua J. Lu Directional Indicator for Mixed Reality Digital Content in Wide-Area Augmented Theatrical Environment
11:12 AM	Danielle Z. Halperin Food in Fascist Italy: How Mussolini's Battle for Grain Impacted Women Socially and Culturally
11:24 AM	Xiaoyun (Jasmine) Li "Up to the Mountains, Down to the Villages": Cultural Conflicts and the Chinese Communist Party's Failed Rustication Policy
11:36 AM	April Y. Wen Mental Health Conversations in Families Across Different Cultures
11:48 AM	Mario Gianluca Tricoci Family Discussions about Mental Health in Black and LatinX Communities in the Context of Covid-19 and Civil Unrest
12:00 PM	Lunch Break – on your own

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Time	Talk
1:40 PM	Opening Remarks
1:43 PM	Cody Busch-Weiss Developing an Open-source pH Sensor to Monitor Ocean Acidification
1:55 PM	Michelle Sun Exploring Interactions between <i>Corynactis californica</i> and <i>Lytechinus pictus</i> in California Kelp Forests
2:07 PM	Casey S. Chen Why Words Are the Way They Are: A Typological Analysis of the Influence of Sonority on Language
2:19 PM	Jonathan W. Chu Situating the Taboo: Sociocultural Contextualization of Lexical Acceptability in Mandarin-English Code-Switching
2:31 PM	Kate Jang Influence of Biopolymers on Microplastic Settling
2:43 PM	Alan Wang Optimizing Fine-Tuning Sparsification for Improved Performances in Efficient Transformers
2:55 PM	S. Ravishankar Extending the Applications of Efficient Transformers: Applying ALBERT to Machine Translation
3:07 PM	Steven Amanat Using Turbulent Air Jets to Optimize Surface Cleaning
3:19 PM	Intermission
3:39 PM	Enming Zhang Rapid and Energy Efficient Microwave Preparation of Wadsley-Roth Electrode Materials for Li-Ion Batteries
3:51 PM	Welton Wang Influence of Metallicity and Disorder on Electrochemistry in $Ti_2Nb_{10}O_{29}$ and $Nb_{12}O_{29}$
4:03 PM	Neha N. Nabar Analyzing Anterior Cingulate Cortex c-Fos Levels in Rodent Models of Simple and Biconditional Discriminations
4:15 PM	Ryan Z. Tang Entorhinal Cortex Activity During Context-Dependent Behavior
4:27 PM	Katherine A. Kricorian The Role of Hormonal Status in Sucrose Reinforcement in Rats
4:39 PM	Anant A. Jhaveri Investigating the Role of <i>OtopLA</i> in Regulating Drinking in Fruit Flies
4:51 PM	I. Kim Conservation of Odorant Binding Proteins in Generalist and Specialist Fly Species
5:05 PM	End of Day 1

2022 Research Symposium Schedule

Thursday, July 28

Time	Talk
9:00 AM	Opening Remarks
9:04 AM	Anika Sikka Studying Human Behavior when Navigating in Outdoor Augmented Reality
9:16 AM	W. Wang Improving Gaze Target Determination Accuracy with Prioritized Volume-Based Queries
9:28 AM	Emily Shen Exploring the Effect of Physical Attractiveness on Online Self-Disclosure
9:40 AM	James Roberts Review of Recent Communication Technology Research: A Content Analysis of the <i>Journal of Computer-Mediated Communication</i>
9:52 AM	A. Choudhri Straining WSe ₂ Monolayers for a Frequency Tunable Light Source
10:04 AM	Caprisabel Acquistapace Communal Coping in the Context of Cancer: Identifying the Paradoxical Functions Within Families
10:16 AM	Jifan (Jerry) Zhu Effects of Impostor Phenomenon on Organizational Assimilation in Graduate Students
10:28 AM	Intermission
10:48 AM	Matthew Chang A Bioinformatic Analysis of Foliar Fungal Endophytes in Litter Decomposition
11:00 AM	William Jenkins Identifying Possible Pathogenic Bacteria in the Salton Sea and Their Potential Effects on Human Health
11:12 AM	Javier Raynoso Analyzing the Role of Summertime Atmospheric Processes on Arctic Sea Ice Decline
11:24 AM	Ved Srivathsa Investigating the effects of sea ice melting on oceanic warming in the Arctic
11:36 AM	Justin C. Ahn Borrow or Burn?: How Credit Constraints in Rural India Perpetuate Crop Residue Burning
11:48 AM	Rohit Raman Detection of Smoke Plumes From Crop Burning Using Satellite Imagery
12:00 PM	A. Murthy Transport Measurements for 2-Dimensional Electron Gas in a Tunable Terahertz Sensor for Planetary Science
12:15 PM	Lunch Break – on your own

2022 Research Symposium Schedule

Thursday, July 28

Time	Talk
1:40 PM	Opening Remarks
1:43 PM	Cynthia Wang Comparing Price Manipulation Attacks Across Layer 1 and Layer 2 Decentralized Exchange Platforms
1:55 PM	Elia Ching Examining Price Efficiency in Layer 2 Networks
2:07 PM	Austin Park Determining Optimal Resource Distribution Strategies to Maximize Surviving Offspring using Non-Linear Optimization Methods
2:19 PM	Tyler Kim A Discrete-Time Model of Host-Microbiome Coevolution: Population Dynamics of Cycling and Asymptotic Stability
2:31 PM	Zechang (Charlie) Yang Developing a Discrete Mathematical Model to Characterize the Long-Term Population Dynamics in Holobiont Evolution
2:43 PM	Haoyun Yang Disability Justice: What are Students With Disability Demanding of Higher Education Spaces at Public Universities in California?
2:55 PM	J. Chen Using Improvisation to Support Open-Ended Learning Experiences at MOXI, the Wolf Museum of Exploration + Innovation
3:10 PM	Intermission
3:30 PM	Poster Session Campbell Courtyard
5:00 PM	End of Day 2

2022 Research Symposium Schedule

Friday, July 29

Time	Talk
9:00 AM	Opening Remarks
9:04 AM	Caroline Wei Optimizing COVID-19 Mask Distribution During Emergency Response
9:16 AM	Gautam Nair Investigating the Effect of Thermoelectric Plants on Marine Fisheries' Production Along the Coast of Chile
9:28 AM	Alan Zhong Machine Learning-Based Classification and Fusion of Satellite Precipitation Products
9:40 AM	Krish Arora Tensor Decomposition for Deep Neural Network Compression
9:52 AM	Sanjay Adhikesaven Ensemble Method to Improve Automated Segmentation of Brain CT Scans for the Diagnosis of Normal Pressure Hydrocephalus
10:04 AM	Kathy M. Li Automated Classification of Brain CT Scans for the Diagnosis of Normal Pressure Hydrocephalus
10:16 AM	L. Iwamoto Building a Wireless Arduino Interface to Measure Laser Power
10:28 AM	Intermission
10:48 AM	Zhaozhong (Alex) Wang Robust Method for 3D Lesion Segmentation of COVID-19 from Lung CT Scans
11:00 AM	Claire Y. Chen Classification of COVID-19 From Other Forms of Viral Pneumonia Using Chest CT Scans
11:12 AM	K. He Electrical Characterization of Aluminum Gallium Oxide Thin Films for Applications in High Power Devices
11:24 AM	Saad Asad Electrical Characterization of β -Ga ₂ O ₃ MOVPE-Grown Schottky Diodes with Au and Ni Contacts
11:36 AM	Alexa C. Pelzer Believing the Victim: Making Sense of Belief-Related Victim Advocacy in Sexual Assault Cases
11:48 AM	Gayathri Kaimal Rethinking Implicit Bias: Exploring the Role of Non-Integration in Explaining Why People Act Contrary to Their Beliefs
12:00 PM	Riya Mitra A Failure of Self-Knowledge: Explaining the Disconnect Between Belief and Action
12:15 PM	Lunch Break – on your own

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Friday, July 29

Time	Talk
1:40 PM	Opening Remarks
1:43 PM	Elise R. Chiu Quantifying the Conservation Potential of Urchin Fishing Patterns for Kelp Restoration
1:55 PM	Abigail Chang Evaluating State-Level Aquaculture Policies: Meta-Analysis of Best Management Practices Across the United States
2:07 PM	Penelope T. Stinson Second Shift or Quit: Investigating the Impact of COVID-19 on Childcare Responsibilities
2:19 PM	Celerina Chao On Site: The Architecture of Helena Arahuete
2:31 PM	Olivia Chiang Living Cultural Conflict: Scientific Christians as a Lens Into American Political Culture
2:43 PM	Joyce Jiang Dissecting the American Eugenics Movement: Anatomy and the Production of Scientific Racism
2:55 PM	S. Perrine The Pregnant Female Cadaver: An Analysis of <i>Sectio in Mortua</i> and Women's Bodily Value
3:07 PM	Intermission
3:27 PM	Anandita Agarwal The Lost Citizens: The Legacy of the Indian Partition and the 2019 Citizenship Amendment Act on Muslim Minorities
3:39 PM	Xinni (Sunshine) Chen Bargaining with the Patriarchy: Examining Chinese State Feminism through the 1995 UN World Conference on Women
3:51 PM	Wency Suo Flood Factor Semantic Image Segmentation of Aerial Images with Convolutional Neural Networks for Flood Detection
4:03 PM	Mahek Patel Evaluating the role of Physical Attractiveness on Online Self-Disclosure Utilizing the Expectancy Violations Theory
4:15 PM	Siddharth Banerjee Experiencing Machine Learning: Exploring the Impact of User Presence on Live ML Training in Extended Reality
4:35 PM	End of Day 3
5:00 PM	RMP Closing Event Goleta Beach – Area D