Poster Session

Location: Hameetman Multipurpose Room  
Time: 4:00 - 6:00 PM

Poster No. 25  
**Kevin H. Alexander**  
University of Massachusetts Amherst  
Spin-lattice Relaxation Mechanisms in Nitrooxide Free Radicals  
Ryan G. Hadt  
Assistant Professor of Chemistry  
Nathanael Kazmierczak  
Graduate Student in Chemistry

Poster No. 40  
**Sahithi Ankiredy**  
Arthur E. Lamel Memorial  
SURF Fellow  
Uncovering Structure in Vision-Language Embeddings  
Pietro Perona  
Allen E. Puckett Professor of Electrical Engineering  
Laure Delisle  
Graduate Student in Computing and Mathematical Sciences

Poster No. 29  
**Mars M. Arechavala**  
Howell N. Tyson, Sr.,  
SURF Fellow  
Modeling and Experimentation of Cement-based Products for Enhanced Carbon Capture  
Melany L. Hunt  
Dotty and Dick Hayman Professor of Mechanical Engineering  
Ricardo A. Hernandez  
Graduate Student in Mechanical Engineering

Poster No. 35  
**Miriam Aziz**  
Columbia University  
Amgen Scholar  
Development of Molecular Qubit Systems for Quantum Information Science  
Theodor Agapie  
Professor of Chemistry  
Fernando Guerrero  
Graduate Student in Chemistry

Poster No. 45  
**Thorfinnur A. Baldvinsson**  
University of Iceland  
Caltech-University of Iceland Exchange  
Electrochemical and Thermochemical Testing of Cobalt and Copper Oxides for Electrochemical Hydroformylation  
Karthish Manthiram  
Professor of Chemical Engineering and Chemistry; William H. Hurt Scholar  
Emma Cosner  
Graduate Student in Chemistry

Poster No. 47  
**Thomas F. Baxley**  
Harvard University  
Information Science and Technology (IST) Venerable WAVE Fellow  
Improving the Symmetric Group Construction in Group-Theoretic Approach to Fast Matrix Multiplication  
Chris M. Umans  
Professor of Computer Science

Poster No. 24  
**Karina L. Bender**  
University of California, Los Angeles  
Studying the Effects of CB5339 as a p97 Pathway Inhibitor on Proteins in the Ubiquitin Pathway of IMR90 Fibroblast Cells  
Tsui-Fen Chou  
Research Professor of Biology and Biological Engineering  
Shyue Fang Battaglia-Hsu  
Visitor in Biology and Biological Engineering
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<td>University of Puerto Rico, Mayagüez, Southern California Edison</td>
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<td>KTH Royal Institute of Technology</td>
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<td>University of Oxford</td>
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<td>California Polytechnic State University, San Luis Obispo Carl F. Braun WAVE Fellow</td>
<td>Analysis of Intervenors of Potential Fast Radio Burst Host Galaxies Through Spectral Energy Distribution Fitting With Photometry</td>
<td>Vikram Ravi, Assistant Professor of Astronomy</td>
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<td>Wayne State University Resnick Sustainability Institute (RSI) WAVE Fellow</td>
<td>Unlocking the Cyclization of Diazetidomonapyridone Precursors</td>
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<td>Investigating Subsidence Associated With Anthropogenic Activity Over Riyadh Using InSAR</td>
<td>Charles Elachi, Professor of Electrical Engineering and Planetary Science, Emeritus</td>
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<td>Jörn Callies Professor of Oceanography and Environmental Science</td>
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<td>Houman Owhadi Professor of Applied and Computational Mathematics and Control and Dynamical Systems Ricardo Baptista von Kármán Instructor in Computing and Mathematical Sciences</td>
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<td>Ryan G. Hadt Assistant Professor of Chemistry Ruben Mirzoyan Graduate Student in Chemistry</td>
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<td>Pietro Perona, Allen E. Puckett Professor of Electrical Engineering</td>
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<td>Harvard University Information Science and Technology (IST) Venerable WAVE Fellow</td>
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<td>The University of Chicago</td>
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Georgetown University  
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Research Professor of Astronomy |
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John Stauffer SURF Fellow | An Investigation Into the Potential of Machine Learning for the Prediction of Regioselectivity of C(sp³)-H Bond Functionalization | Sarah E. Reisman  
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| Poster No. 8 | **Anh P. Phung**  
University of Cambridge  
Caltech-Cambridge Exchange | High Throughput Engineering of Next-Generation Mammalian Acoustic Reporter Genes for Multiplexed Ultrasound Imaging | Mikhail G. Shapiro  
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Postdoctoral Scholar Fellowship Trainee in Chemical Engineering |
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University of Cambridge | Discovering Social Bias in Text-to-Image Models Through Likelihood Estimation | Anima Anandkumar  
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| Poster No. 14 | **Elena Selmi**  
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Solar System Scientist at IPAC |
| Poster No. 26 | **Kristina A. Sevier**  
Carl F. Braun SURF Fellow | Assembly Test Stand for Construction of Barrel Timing Layer (BTL) in CMS at CERN | Maria Spiropulu  
Shang-Yi Ch'en Professor of Physics  
Anthony LaTorre  
David and Ellen Lee Postdoctoral Scholar Research Associate in Physics |
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| 5         | **Anant Singh**             | Rajdhani College, University of Delhi           | Measuring Fast Radio Burst (FRB) Scintillations Using CHIME Catalog1 Data | E. Sterl Phinney
Professor of Theoretical Astrophysics
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| 6         | **Anish Somani**            | University of California, Berkeley Amgen Scholar | Understanding the Roles of Intrinsically Disordered Regions in Chimeric Oncogenic Transcription Factor Pax3-FoxO1 | Shasha Chong
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Theodore Y. Wu Professor of Environmental Science and Engineering; Senior Research Scientist, JPL
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| 3         | **Arika K. Ting**           | Yale University Amgen Scholar                  | Developing Optogenetic Control Over Gene Expression in *Pseudomonas aeruginosa* Biofilms to Understand the Role of the Extracellular Matrix in Biofilm Formation | Dianne K. Newman
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*Frederick W. Drury, Jr.,*  
*SURF Fellow*  
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**Xiaojing (Ruby) Fu**  
*Assistant Professor of Mechanical and Civil Engineering*  
**Nathan Jones**  
*Graduate Student in Mechanical Engineering*

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**Madison Q. Yee**  
*University of California, Los Angeles*  
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**Investigating the Roles of the Ventromedial Hypothalamus and the Medial Preoptic Area in Aggressive and Sexual Behaviors**  
**David J. Anderson**  
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*Postdoctoral Scholar Fellowship Trainee in Biology and Biological Engineering*

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**Michael S. Zitser**  
*California State University, Los Angeles*  
*BBE-CEMI WAVE Fellow*  
**Characterization of Sphingopyxis alaskensis**  
**Jared R. Leadbetter**  
*Professor of Environmental Microbiology*  
**Lydia M. Varesio**  
*Postdoctoral Scholar Research Associate in Geobiology*