

Presentations in Alphabetical Order by Student

K - Computer Science 113 Spalding Lab 1:20 - 1:40 PM	Nicholas D. Abram Howard University <i>Information Science and Technology (IST) Venerable WAVE Fellow</i>	STRATA: An agentic training architecture for scientific task automation	Yisong Yue <i>Professor of Computing and Mathematical Sciences</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Selassie A. Ackah Caltech	Frequency of Small Magellanic Cloud analogs in simulated Milky Way systems hosting a Large Magellanic Cloud analog	Andrew J. Benson <i>Staff Scientist, Carnegie Observatories</i> Lior S. Pachter <i>Bren Professor of Computational Biology and Computing and Mathematical Sciences</i>
Q - Astronomy 100 Powell-Booth 2:50 - 3:10 PM	Athiwat N. Ackaramongkolrotn Caltech <i>Edward C. Stone Voyager SURF Fellow</i>	Inferring supernovae progenitor properties from a systematic sample of nebular spectra	Mansi M. Kasliwal <i>Professor of Astronomy</i> Kaustav Das <i>Postdoctoral Scholar Research Associate in Astronomy</i>
K - Computer Science 113 Spalding Lab 3:10 - 3:30 PM	William H. Adkisson Washington University in St. Louis	GPU acceleration of TorchLean, a formally verified neural network training library in Lean 4	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Robert Joseph George <i>Graduate Student in Computing and Mathematical Sciences</i>
J - Applied Physics and Materials Science 153 Noyes 3:50 - 4:10 PM	Mitchell J. Agris Caltech <i>Marcella Bonsall SURF Fellow</i>	Development of an acoustic bandgap filter for superfluid helium-4 systems	Keith C. Schwab <i>Professor of Applied Physics</i>
D - Chemistry 128 Baxter 1:00 - 1:20 PM	Jaehwan Ahn Daegu Gyeongbuk Institute of Science and Technology <i>VURP Fellow</i>	Composition optimization of an FeCoNiMo high-entropy alloy for hydrogen evolution	William A. Goddard III <i>Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics</i> Sejun Kim <i>Postdoctoral Scholar Research Associate in Chemistry</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Jaehwan Ahn Daegu Gyeongbuk Institute of Science and Technology <i>VURP Fellow</i>	Composition optimization of an FeCoNiMo high-entropy alloy for hydrogen evolution	William A. Goddard III <i>Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics</i> Sejun Kim <i>Postdoctoral Scholar Research Associate in Chemistry</i>

G - Aeronautics and Mechanical Engineering B122 Gates-Annex 3:50 - 4:10 PM	Reema B. Almadhi Caltech <i>Saul and Joan Cogen Memorial SURF Fellow</i>	Effect of molecular structure on the autoignition behavior of sustainable aviation fuels	Joseph E. Shepherd <i>C.L. "Kelly" Johnson Professor of Aeronautics and Mechanical Engineering, Emeritus</i> Charline Fouchier <i>Senior Postdoctoral Scholar Research Associate in Aerospace</i>
Q - Astronomy 100 Powell-Booth 1:40 - 2:00 PM	Abrar Amin Cornell University	Census of low-mass galaxies with the Hubble Space Telescope	Mike G. Jones <i>Staff Scientist in IPAC</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Akshay Anand The Ohio State University <i>Center for Evolutionary Science EVO-WAVE Fellow</i>	Phylogenetic comparative methods for the 8-Cube mouse founder transcriptome atlas	Lior S. Pachter <i>Bren Professor of Computational Biology and Computing and Mathematical Sciences</i> Nikhila Swarna <i>Graduate Student in Biochemistry and Molecular Biophysics</i>
D - Chemistry 128 Baxter 1:20 - 1:40 PM	Eddie I. Anderson Howard University <i>Southern California Edison WAVE Fellow</i>	Computational study of bimetallic MOF electrocatalysts for selective nitrogen reduction reaction	William A. Goddard III <i>Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics</i> Sejun Kim <i>Postdoctoral Scholar Research Associate in Chemistry</i>
V - Physics 103 Downs 3:30 - 3:50 PM	Tooba Ansar Amherst College	A multi-wavelength archival search for counterparts and hosts of NuSTAR fast X-ray transients	Fiona A. Harrison <i>Harold A. Rosen Professor of Physics</i> Guillem Megias Homar <i>David and Ellen Lee Postdoctoral Scholar Research Associate in Physics</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Ava Arabshahi Occidental College <i>Amgen Scholar</i>	Neural circuit mapping and behavioral characterization in activity-based anorexia and restraint stress models	Yuki Oka <i>Professor of Biology; Investigator, Heritage Medical Research Institute</i> Tongtong Wang <i>Postdoctoral Scholar Research Associate in Biology and Biological Engineering</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Nicholas Z. Bai Caltech <i>Carl F. Braun SURF Fellow</i>	Diffusion guided posterior sampling for Bayesian inverse problems	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Jiachen Yao <i>Graduate Student in Computing and Mathematical Sciences</i>

I - Applied Physics and Electrical Engineering 135 Gates-Thomas 3:10 - 3:30 PM	Jeremiah Bailey Howard University WAVE Fellow	MACE-H-LR: Incorporating long-range interactions into equivariant Hamiltonian prediction	Marco Bernardi <i>Professor of Applied Physics, Physics, and Materials Science</i> Yao Luo <i>Graduate Student in Materials Science</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Sandra E. Baltazar Oberlin College <i>Southern California Edison WAVE Fellow</i>	Towards cryo-EM structural determination of FAM136A using a nanobody-based fiducial strategy	Rebecca M. Voorhees <i>Professor of Biology and Biological Engineering; HHMI Freeman Hrabowski Scholar</i> Jichen Zhang <i>Graduate Student in Biochemistry and Molecular Biophysics</i>
E - Chemistry 147 Noyes 2:50 - 3:10 PM	Elizabeth Y. Bank University of California, Irvine <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	Mechanistic investigation of lanthanide reactivity and imine substrate scope in a photodriven Sm-catalyzed asymmetric ketyl-olefin coupling	Sarah E. Reisman <i>Bren Professor of Chemistry</i> Nathan C. Friede <i>Graduate Student in Chemistry</i> Will Chen <i>Graduate Student in Chemistry</i>
N - Geological and Planetary Sciences 142 Keck Laboratory 2:00 - 2:20 PM	Nicolas W. Bartolomeo University of Maryland, Baltimore County <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	Informing photosynthetic model parameterization using solar-induced chlorophyll fluorescence data	Tapio Schneider <i>Theodore Y. Wu Professor of Environmental Science and Engineering</i> Katherine Deck <i>Research Scientist in the Global Environmental Center</i> Oliver Dunbar <i>Senior Research Scientist in the Global Environmental Center</i>
N - Geological and Planetary Sciences 142 Keck Laboratory 2:50 - 3:10 PM	Nivale E. Baxendell Wellesley College <i>Center for Evolutionary Science EVO-WAVE Fellow</i>	Using paleoatmospheric CO ₂ to constrain the age and paleoclimate of late Pleistocene Amazonian fossil flora	Julia Tejada <i>Assistant Professor of Geobiology; William H. Hurt Scholar</i> Elena Stiles <i>Postdoctoral Scholar Research Associate in Geochemistry</i>
M - Mechanical Engineering and Medical Engineering B133 Baxter 2:50 - 3:10 PM	Sophia M. Benedick University of Chicago VURP Fellow	Laser-grown superconductors: High-Tc niobium thin films via thermal laser epitaxy	Austin J. Minnich <i>Professor of Mechanical Engineering and Applied Physics</i> David S. Catherall <i>Research Engineer in Mechanical and Civil Engineering</i> Yifei Yan <i>Graduate Student in Applied Physics</i>

N - Geological and Planetary Sciences 142 Keck Laboratory 4:10 - 4:30 PM	Jesse M. Benitez Brown University <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	Deconvolving vital effects from paleoceanographic signals using stable isotopes, clumped isotopes, and metal/Ca ratios in deep-sea scleractinian corals	Jess F. Adkins <i>Smits Family Professor of Geochemistry and Global Environmental Science</i>
E - Chemistry 147 Noyes 1:40 - 2:00 PM	Emma J. Berg Caltech <i>John Stauffer SURF Fellow</i>	Molecular basis of CK1δ nuclear import in circadian rhythm modulation	André Hoelz <i>Mary and Charles Ferkel Professor of Chemistry and Biochemistry; Investigator, Howard Hughes Medical Institute</i> Chia-Yu Chien <i>Graduate Student in Biochemistry and Molecular Biophysics</i>
G - Aeronautics and Mechanical Engineering B122 Gates-Annex 1:20 - 1:40 PM	Juan E. Beron Universidad Pontificia Bolivariana	Safety and contingency certificates for Mars-analog drone landing	Aaron D. Ames <i>Bren Professor of Mechanical and Civil Engineering, Control and Dynamical Systems, and Aerospace</i> Joe Moeller <i>Postdoctoral Scholar Research Associate in Mechanical and Civil Engineering</i> Yana Lishkova <i>Postdoctoral Scholar Research Associate in Mechanical and Civil Engineering</i> Pedro Roque <i>Postdoctoral Scholar Research Associate in Mechanical and Civil Engineering</i>
U - Physics 269 Lauritsen 2:00 - 2:20 PM	Clayton G. Bishop Southern Illinois University of Edwardsville <i>WAVE Fellow</i>	Performance evaluation of a Kinetic Inductance Traveling Wave Parametric Amplifier	Sunil Golwala <i>Professor of Physics</i>
E - Chemistry 147 Noyes 3:10 - 3:30 PM	Hannah L. Bowman Caltech <i>John Stauffer SURF Fellow</i>	Investigating the interactions of the NEIL3 beta hairpin and KY motif with MCM2-7 in DNA interstrand cross-link repair	Daniel R. Semlow <i>Assistant Professor of Biochemistry; Ronald and JoAnne Willens Scholar</i> Gabriel Ashton-Rickardt <i>Graduate Student in Chemistry</i>
F - Chemical Engineering 106 Spalding Lab 1:00 - 1:20 PM	Paxton N. Boyce University of California, Santa Barbara <i>Carl F. Braun WAVE Fellow</i>	Controlling mist formation in droplet impact using megasupramolecules	Julia A. Kornfield <i>Warren and Katharine Schlinger Professor of Chemical Engineering</i> Sativik Verma <i>Graduate Student in Chemical Engineering</i>

D - Chemistry 128 Baxter 3:30 - 3:50 PM	Carolyn S. Brown Rice University <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	Synthesis and characterization of transition metal complexes for molecular qubit applications	Theodor Agapie <i>John Stauffer Professor of Chemistry</i> Fernando Guerrero <i>Graduate Student in Chemistry</i>
H - Aeronautics 133 Guggenheim 1:20 - 1:40 PM	Erik S. Bryland Lund University <i>VURP Fellow</i>	Disturbance-aware trajectory planning with learned linear- in-latent disturbance dynamics	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Min Kim <i>Graduate Student in Control and Dynamical Systems</i>
A - Biology 127 Baxter 2:00 - 2:20 PM	Kamarya A. Buckley University of Maryland, Baltimore County <i>Chen Institute BrainWAVE Fellow</i>	Investigating the molecular and neural mechanisms of social behavior in <i>Drosophila</i>	David J. Anderson <i>Seymour Benzer Professor of Biology; Investigator, Howard Hughes Medical Institute</i> Yousef Ouadah <i>Senior Postdoctoral Scholar Research Associate in Biology and Biological Engineering</i> Ziqing Zhong <i>Graduate Student in Neurobiology</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Kamarya A. Buckley University of Maryland, Baltimore County <i>Chen Institute BrainWAVE Fellow</i>	Investigating the molecular and neural mechanisms of social behavior in <i>Drosophila</i>	David J. Anderson <i>Seymour Benzer Professor of Biology; Investigator, Howard Hughes Medical Institute</i> Yousef Ouadah <i>Senior Postdoctoral Scholar Research Associate in Biology and Biological Engineering</i> Ziqing Zhong <i>Graduate Student in Neurobiology</i>
V - Physics 103 Downs 3:50 - 4:10 PM	Michael Burch Harvey Mudd College <i>WAVE Fellow</i>	PySimSat: An open-source Python package for simulating satellite X-ray spectra	Fiona A. Harrison <i>Harold A. Rosen Professor of Physics</i> Gaurav Waratkar <i>Postdoctoral Scholar Research Associate in Physics</i>
H - Aeronautics 133 Guggenheim 1:00 - 1:20 PM	Ettienne Caban-Klepac Caltech <i>Arthur R. Adams SURF Fellow</i>	Actor-critic reinforcement learning for model predictive control for the Autonomous Indy Car Challenge	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Gilchrist X. Johnson <i>Graduate Student in Control and Dynamical Systems</i>

M - Mechanical Engineering and Medical Engineering B133 Baxter 1:00 - 1:20 PM	Eitan E. Camacho Massachusetts Institute of Technology <i>Carl F. Braun WAVE Fellow</i>	Extensions of the Voronoi Implicit Interface Method to unstructured meshes with applications to grain boundary evolution within a 3D X-ray diffraction inversion algorithm	Kaushik Bhattacharya <i>Howell N. Tyson, Sr., Professor of Mechanics and Materials Science</i> Carter Cocke <i>Graduate Student in Mechanical Engineering</i>
F - Chemical Engineering 106 Spalding Lab 3:50 - 4:10 PM	Barbara S. Cao Caltech <i>Joseph L. Koo and Helen C. Koo SURF Fellow</i>	Constructing a SNIPR-based genetic circuit for non-invasive acoustic imaging of glioblastoma-specific antigens	Mikhail G. Shapiro <i>Max Delbrück Professor of Chemical Engineering and Medical Engineering; Investigator, Howard Hughes Medical Institute</i> Ann Liu <i>Graduate Student in Bioengineering</i>
I - Applied Physics and Electrical Engineering 135 Gates-Thomas 1:00 - 1:20 PM	Enya Cao University of Pennsylvania	Control of surface morphology in spalled thin silicon for space solar power applications	Harry A. Atwater <i>Howard Hughes Professor of Applied Physics and Materials Science</i> Andy Nyholm <i>Graduate Student in Materials Science</i> Elsie P. Loukiantchenko <i>Graduate Student in Physics</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Yubo Cao Caltech <i>Arthur R. Adams SURF Fellow</i>	PTNO: Training neural operators with noisy Monte Carlo estimates for particle transport problems	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Xi Deng <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i>
U - Physics 269 Lauritsen 2:20 - 2:40 PM	Ian J. Chang Princeton University <i>VURP Fellow</i>	Confirming functionality of a single pixel bolometer for use in shearing interferometry	Sunil Golwala <i>Professor of Physics</i>
C - Biology 101 Schlinger 3:50 - 4:10 PM	Nishanth Chavourkar University of California, Berkeley <i>Amgen Scholar</i>	Analysis of the exploratory dynamics of microtubule search for kinetochores during cell division	Rob B. Phillips <i>Fred and Nancy Morris Professor of Biophysics, Biology, and Physics</i> Minakshi Ashok <i>Graduate Student in Bioengineering</i>

L - Computer Science B119 Baxter 2:50 - 3:10 PM	Michael H. Chen Caltech <i>David Zheng SURF Fellow</i>	Neural operators and stochastic methods for PDE-based navigation	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Chuwei Wang <i>Graduate Student in Computing and Mathematical Sciences</i> Xi Deng <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i> Hong Chul Nam
W - Physics 107 Downs 3:50 - 4:10 PM	Patrick P. Chen University of Cambridge	Initial data dependence of direct waves in binary black hole mergers	Yanbei Chen <i>Professor of Physics</i> Andrew Laeuger <i>Graduate Student in Physics</i>
K - Computer Science 113 Spalding Lab 1:40 - 2:00 PM	Trevor B. Chen Caltech <i>Robert K. and Alice L. Roney SURF Fellow</i>	Discovering interpretable visual features in high-fidelity generative models	Pietro Perona <i>Allen E. Puckett Professor of Electrical Engineering</i> Ilona Demler <i>Graduate Student in Computing and Mathematical Sciences</i>
V - Physics 103 Downs 4:10 - 4:30 PM	Wenda Chen University of Cambridge	Systematic study of the long- term behavior of hot electrons surrounding the supermassive black hole	Fiona A. Harrison <i>Harold A. Rosen Professor of Physics</i> Xiurui Zhao <i>Postdoctoral Scholar Research Associate in Physics</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Yi-Jhe Chen National Taiwan University <i>BaBar SURF Fellow</i>	Modeling experimental asset bubbles through Large Language Models with persona optimization	Colin F. Camerer <i>Robert Kirby Professor of Behavioral Economics</i> Cady H. Ngo <i>Research Assistant in Humanities and Social Sciences</i>
D - Chemistry 128 Baxter 4:10 - 4:30 PM	Yufan Cheng University of Cambridge	Electronic structure and superconductivity of nickelate with DMET method	Garnet K. Chan <i>Bren Professor of Chemistry</i> Petra Shih <i>Postdoctoral Scholar Research Associate in Chemistry</i>
L - Computer Science B119 Baxter 2:00 - 2:20 PM	Lufang A. Chiang National Taiwan University <i>BaBar SURF Fellow</i>	Elucidating the design space of consistency flow maps for time-dependent PDEs	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Jiachen Yao <i>Graduate Student in Computing and Mathematical Sciences</i>

H - Aeronautics 133 Guggenheim 1:40 - 2:00 PM	Jason H. Childs Howard University <i>Information Science and Technology (IST) Venerable WAVE Fellow</i>	Flow Monte Carlo tree search	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Min Kim <i>Graduate Student in Control and Dynamical Systems</i>
C - Biology 101 Schlinger 3:10 - 3:30 PM	Pranati N. Chintada Caltech <i>Mr. Alan Menezes and Dr. Karsyn Bailey SURF Fellow</i>	Evaluating the effectiveness of different transposon systems for genomic integration in chicken embryos	Marianne Bronner <i>Edward B. Lewis Professor of Biology</i> Junpeng Gao <i>Graduate Student in Biochemistry and Molecular Biology</i>
O - Geological and Planetary Sciences B125 Baxter 1:20 - 1:40 PM	Daria Alice Ciobanu Caltech <i>Harold and Mary Zirin SURF Fellow</i>	The dynamical consequences of stellar spin-orbit misalignment in exoplanet systems	Konstantin Batygin <i>Professor of Planetary Science</i> Luke Handley <i>Graduate Student in Astrophysics</i>
F - Chemical Engineering 106 Spalding Lab 2:50 - 3:10 PM	Carl J. Crum Caltech <i>John Stauffer SURF Fellow</i>	Molecular dynamics simulations for nanoconfined ion transport	Kara D. Fong <i>Assistant Professor of Chemical Engineering; William H. Hurt Scholar</i> Edward Chen <i>Graduate Student in Chemical Engineering</i>
R - Astronomy 151 Crellin 2:50 - 3:10 PM	Ngoc Thach Dang University of Illinois Urbana-Champaign	Radio holography for the Deep Synoptic Array	Stephen Padin <i>Research Professor of Physics</i>
E - Chemistry 147 Noyes 3:30 - 3:50 PM	Daniel C. Darahdgian Occidental College	Converting carbon dioxide into useful chemicals and fuels	Harry B. Gray <i>Arnold O. Beckman Professor of Chemistry</i> Jay R. Winkler <i>Faculty Associate and Lecturer in Chemistry</i>
I - Applied Physics and Electrical Engineering 135 Gates-Thomas 2:00 - 2:20 PM	Tomas F. Davis University of Cambridge <i>Caltech-Cambridge Exchange</i>	Designing an integrated, tuneable, Unitary in thin film lithium niobate for GBS	Alireza Marandi <i>Professor of Electrical Engineering and Applied Physics</i> Ofir Yesharim <i>Postdoctoral Scholar Fellowship Trainee in Electrical Engineering</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Joaquin Gabriel Malachi A. de Castro Harvard University	Hardware-native quantum machine learning methods for anomaly detection in active galactic nuclei light curves	Matthew J. Graham <i>Research Professor of Astronomy</i>

V - Physics 103 Downs 3:10 - 3:30 PM	<i>Mercan Demiroglu</i> The Pennsylvania State University	Reflection from the plunging region of accreting black holes: A systematic study of spin measurements	Fiona A. Harrison <i>Harold A. Rosen Professor of Physics</i> Elias Kammoun <i>Research Scientist in Astronomy</i>
M - Mechanical Engineering and Medical Engineering B133 Baxter 3:30 - 3:50 PM	<i>Nia P. Desai</i> Georgia Institute of Technology <i>Amgen Scholar</i>	Real-time attentional classification using smart glasses	Wei Gao <i>Professor of Medical Engineering; Investigator, Heritage Medical Research Institute</i> Ruixiao Liu <i>Graduate Student in Medical Engineering</i>
P - Humanities and Social Sciences B125 Baxter 4:10 - 4:30 PM	<i>Andrew Dou</i> Harvard University	If a statistical model predicts that common events should occur only once in 10,000 elections, maybe it's the wrong model	Jonathan N. Katz <i>Kay Sugahara Professor of Social Sciences and Statistics</i> Daniel Ebanks <i>Visitor in Social Sciences</i> Gary King
R - Astronomy 151 Crellin 1:00 - 1:20 PM	<i>Adam El-Hindi</i> École Polytechnique	Beyond statistical isotropy in 3D galaxy surveys	Olivier P. Doré <i>Senior Faculty Associate in Physics</i> Henry Gebhardt <i>Research Associate in Physics</i>
U - Physics 269 Lauritsen 3:50 - 4:10 PM	<i>Elizabeth C. Ellison</i> Caltech <i>Victor Neher SURF Fellow</i>	High-dimensional communication via continuous wave lasers	Maria Spiropulu <i>Shang-Yi Ch'en Professor of Physics</i> Raju Valivarthi <i>Research Scientist in Quantum Science and Technology</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	<i>Claire D. Fagan</i> University of Maryland, College Park <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	Investigating the origin of seismic clustering in the Salton Trough	Joann M. Stock <i>Professor of Geology and Geophysics</i> Allen Husker <i>Research Professor of Geophysics</i>
W - Physics 107 Downs 1:40 - 2:00 PM	<i>Mingjun Fan</i> Caltech <i>Shirley and Carl Larson SURF Fellow</i>	Uniaxial strain tuning of Hall response in EuAuP	Linda Ye <i>Assistant Professor of Physics</i> Guoxin Zheng <i>Clark B. Millikan Postdoctoral Scholar</i> <i>Research Associate in Physics</i>

H - Aeronautics 133 Guggenheim 2:50 - 3:10 PM	Baaqer M. Farhat Caltech <i>Captain Pradeep B. Suklikar Memorial SURF Fellow</i>	Learning based resilient autonomy for robotic systems under actuation and perception faults	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Mahdi Taheri <i>Postdoctoral Scholar Research Associate in Aerospace</i>
V - Physics 103 Downs 4:30 - 4:50 PM	Kenji P. Farrell Caltech <i>Gary Stupian SURF Fellow</i>	Advancing the image simulator for the Ultraviolet Explorer (UVEX): Vignetting and red leak	Fiona A. Harrison <i>Harold A. Rosen Professor of Physics</i>
V - Physics 103 Downs 1:00 - 1:20 PM	Ferdinand University of Illinois Urbana-Champaign	Transient ULX case study: M31 ULX-3 (LSXPS J004321.0+411833)	Murray Brightman <i>NuSTAR Science Operations Specialist</i>
J - Applied Physics and Materials Science 153 Noyes 2:00 - 2:20 PM	Lucas J. Flach Caltech <i>Donald S. Clark SURF Fellow</i>	Resin development and monomer synthesis for additively manufactured, architected, glucose- responsive hydrogel microneedles	Julia R. Greer <i>Ruben F. and Donna Mettler Professor of Materials Science, Mechanics, and Medical Engineering</i> Analiese J. Wiedenbeck <i>Graduate Student in Chemistry</i>
P - Humanities and Social Sciences B125 Baxter 3:10 - 3:30 PM	Nicholas A. Flach Caltech <i>James G. and Elaine Peterson SURF Fellow</i>	fMRI analysis of human first impressions in a four- dimensional trait space	Ralph Adolphs <i>Bren Professor of Psychology, Neuroscience, and Biology</i> Austin Brotman <i>Graduate Student in Computation and Neural Systems</i>
U - Physics 269 Lauritsen 2:50 - 3:10 PM	Ron A. Freeman Caltech <i>Taylor Lawrence SURF Research Fellow</i>	Improving the sensitivity of NEMS resonators for mass and optical sensing	Michael L. Roukes <i>Frank J. Roshek Professor of Physics, Applied Physics, and Bioengineering</i>
A - Biology 127 Baxter 2:50 - 3:10 PM	Deborah R. Fu University of Michigan, Ann Arbor <i>Chen Institute BrainWAVE Fellow</i>	Decoding behavioral states and transition dynamics in human driving task	Markus Meister <i>Anne P. and Benjamin F. Biaggini Professor of Biological Sciences</i> Yingxi Jin <i>Graduate Student in Computation and Neural Systems</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Varun N. Gabbita Caltech <i>Frank W. Wood SURF Fellow</i>	SafePPO: Anytime constrained proximal policy optimization via safe gradient flow	Aaron D. Ames <i>Bren Professor of Mechanical and Civil Engineering, Control and Dynamical Systems, and Aerospace</i> Pol Mestres <i>Postdoctoral Scholar Research Associate in Mechanical and Civil Engineering</i>

Q - Astronomy 100 Powell-Booth 3:30 - 3:50 PM	Elisa Gao University of Chicago	Late-time HST photometry and X-ray analysis of a sample of Type II supernovae	Mansi M. Kasliwal <i>Professor of Astronomy</i> Wynn Jacobson-Galan <i>Hubble Postdoctoral Scholar</i> <i>Research Associate in Astronomy</i>
M - Mechanical Engineering and Medical Engineering B133 Baxter 4:10 - 4:30 PM	Said M. Garcia Caltech <i>Margaret Leong and Michael P. Checca SURF Fellow</i>	Wireless neuroelectronic system for recording and stimulation in freely moving rodents	Anqi Zhang <i>Assistant Professor of Medical Engineering; Chen Scholar</i> Jialun Zhu <i>Postdoctoral Scholar</i> <i>Research Associate in Medical Engineering</i>
A - Biology 127 Baxter 1:40 - 2:00 PM	Tasnim Ghoniem Columbia University	How does phenazine retention in <i>Pseudomonas aeruginosa</i> biofilms generalize to diverse clinical isolates?	Dianne K. Newman <i>Gordon M. Binder/Amgen Professor of Biology and Geobiology; Merkin Institute Professor</i> Eloise Masquelier <i>Postdoctoral Scholar</i> <i>Research Associate in Chemical Engineering</i> Ezekiel J. Johnson <i>Graduate Student in Bioengineering</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Gabriella G. Giampietro Brown University <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	Employing novel spectroscopic techniques in tracking biomarkers through coalification	John M. Eiler <i>Robert P. Sharp Professor of Geology and Geochemistry</i> Annie Edwards <i>Graduate Student in Geochemistry</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Ian C. Gill Yale University	Single-shot universal quantum computation with 4D lifted product codes	John P. Preskill <i>Richard P. Feynman Professor of Theoretical Physics</i> Madelyn G. Cain Muzhou Ma
P - Humanities and Social Sciences B125 Baxter 3:30 - 3:50 PM	Zakiriya H. Gladney Harvard University <i>Humanities and Social Sciences WAVE Fellow</i>	Why do LLMs misdescribe themselves?	R. Michael Alvarez <i>Flintridge Foundation Professor of Political and Computational Social Science</i>
D - Chemistry 128 Baxter 4:30 - 4:50 PM	Anaya S. Gokarn Caltech <i>Robb and Eunice Rutledge SURF Fellow</i>	Investigating the characteristics of puncta formed by PPAR γ	Shasha Chong <i>Assistant Professor of Chemistry; Ronald and JoAnne Willens Scholar</i> Donghun Lee <i>Postdoctoral Scholar</i> <i>Research Associate in Chemistry</i>

I - Applied Physics and Electrical Engineering 135 Gates-Thomas 1:40 - 2:00 PM	Miguel G. Guerra Zeferino University of Cambridge Caltech-Cambridge Exchange	Developing a new optical spectrometer to investigate the timing of ionization transitions relative to other plasma phenomena in the Caltech jet experiment	Paul M. Bellan <i>Professor of Applied Physics</i> Joshua Q. Morgan <i>Graduate Student in Applied Physics</i>
S - Mathematics 102 Spalding Lab 3:10 - 3:30 PM	Enoch J. Guo Caltech Hannah Bradley SURF Fellow	Infinitely many primes of basic reduction for some abelian sixfolds	Elena Mantovan <i>Taussky-Todd-Loneragan Professor of Mathematics</i>
S - Mathematics 102 Spalding Lab 1:40 - 2:20 PM (joint presentation)	Weibing Guo University of Illinois Urbana-Champaign	Computing F_K invariants of Montesinos knots via quantum 3j- and 6j-symbols	Sergei G. Gukov <i>John D. MacArthur Professor of Theoretical Physics and Mathematics</i>
Q - Astronomy 100 Powell-Booth 3:50 - 4:10 PM	Ishaan Gurazada University of Illinois Urbana-Champaign	A uniformly reduced ultraviolet spectroscopic repository of supernovae from the Hubble Space Telescope	Mansi M. Kasliwal <i>Professor of Astronomy</i> Wynn Jacobson-Galan <i>Hubble Postdoctoral Scholar Research Associate in Astronomy</i>
S - Mathematics 102 Spalding Lab 2:20 - 2:40 PM	Henry Gustafson Caltech Joanna Wall Muir SURF Fellow	Positroid stratifications of positive symplectic Grassmannians	Yassine El Maazouz <i>Harry Bateman Postdoctoral Scholar Teaching Fellow in Mathematics</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	David Gvadzabia Lafayette College	Evaluating causal machine learning algorithms	Leonard J. Schulman <i>Professor of Computer Science</i> Erik Jahn <i>Graduate Student in Computer Science</i>
N - Geological and Planetary Sciences 142 Keck Laboratory 4:30 - 4:50 PM	Lela R. Hanson Stanford University	Fiber-optic sensing of seismic velocity change in urban settings	Zhongwen Zhan <i>Professor of Geophysics</i> Elijah Bird <i>Graduate Student in Geophysics</i>
L - Computer Science B119 Baxter 4:10 - 4:30 PM	Kailen A. Hargenrader Caltech J. Weldon Green SURF Fellow	Capturing rare events: A theory-motivated rethinking for attention kernels in transformers	Andrew M. Stuart <i>Bren Professor of Computing and Mathematical Sciences</i> Bohan Chen <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i>
N - Geological and Planetary Sciences 142 Keck Laboratory 1:40 - 2:00 PM	Quinn J. Hartman Caltech Carl F. Braun SURF Fellow	The effect of cable bacteria colonization on the marine heat wave tolerance of <i>Zostera marina</i>	Victoria J. Orphan <i>James Irvine Professor of Environmental Science and Geobiology</i> Magdalene A. MacLean <i>Graduate Student in Geobiology</i>

E - Chemistry 147 Noyes 4:10 - 4:30 PM	Elise R. Hastie California State University, Los Angeles <i>Carl F. Braun WAVE Fellow</i>	Synthesis of complex ring systems via a [2+2] cycloaddition followed by a base-induced rearrangement	Brian M. Stoltz <i>Victor and Elizabeth Atkins Professor of Chemistry; Investigator, Heritage Medical Research Institute</i> Chloe Cerione <i>Graduate Student in Chemistry</i>
A - Biology 127 Baxter 3:50 - 4:10 PM	Kaedan A. Hendrix Howard University <i>Rev. Dr. Everett Howe and Dr. Isabella Furth WAVE Fellow</i>	Building a minimal toolkit for multicellularity: Investigating T cell regulation through synthetic circuits	Michael B. Elowitz <i>Roscoe Gilkey Dickinson Professor of Biology and Bioengineering; Investigator, Howard Hughes Medical Institute</i> Jacob Parres-Gold <i>Graduate Student in Biochemistry and Molecular Biophysics</i> Ethan Richman <i>Postdoctoral Scholar Research Associate in Biology and Biological Engineering</i>
S - Mathematics 102 Spalding Lab 4:30 - 4:50 PM	Michelle Holland University of California, Berkeley <i>Carl F. Braun WAVE Fellow</i>	Characterizing Andrews- Gordon summands in terms of subsets of cylindric partitions	Tony Yue Yu <i>Professor of Mathematics</i> Weihong Xu <i>Harry Bateman Postdoctoral Scholar Teaching Fellow in Mathematics</i> Yifeng Huang
N - Geological and Planetary Sciences 142 Keck Laboratory 3:30 - 3:50 PM	Jasmine E. Hollis Yale University <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	The impact of snow on the Southern Ocean overturning circulation	Andrew F. Thompson <i>John S. and Sherry Chen Professor of Environmental Science and Engineering</i> Sarah Zhang <i>Graduate Student in Environmental Science and Engineering</i>
O - Geological and Planetary Sciences B125 Baxter 2:00 - 2:20 PM	Natalie R. Homyk University of California, Berkeley	Flume experiments on riverbank erosion with smooth mud walls	Michael P. Lamb <i>Professor of Geology</i> Kimberly L. Miller <i>Laboratory Manager in Geology and Geochemistry</i> Maria Schmeer <i>Graduate Student in Geology</i>
P - Humanities and Social Sciences B125 Baxter 3:50 - 4:10 PM	Alexa M. Hong Santa Clara University	Using visual salience manipulation to promote healthier food choices in vending environments	Colin F. Camerer <i>Robert Kirby Professor of Behavioral Economics</i> Shiang-Hung Hu <i>Graduate Student in Social Science</i>

K - Computer Science 113 Spalding Lab 3:30 - 3:50 PM	Ryan L. Hsiang National Taiwan University <i>BaBar SURF Fellow</i>	Verifying neural operators	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Robert Joseph George <i>Graduate Student in Computing and Mathematical Sciences</i>
O - Geological and Planetary Sciences B125 Baxter 1:40 - 2:00 PM	Cheng-an Hsieh National Taiwan University <i>BaBar SURF Fellow</i>	Probing atmospheric mass loss from WASP-33 b with metastable helium	Heather A. Knutson <i>Professor of Planetary Science</i> Morgan Sidel <i>Graduate Student in Planetary Science</i> Pablo Drake <i>Graduate Student in Planetary Science</i>
L - Computer Science B119 Baxter 2:20 - 2:40 PM	Zi-Siang Hsu National Taiwan University <i>BaBar SURF Fellow</i>	PosteriorBench: From point estimates to posterior matching in evaluating generative inverse solvers	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Jiachen Yao <i>Graduate Student in Computing and Mathematical Sciences</i>
M - Mechanical Engineering and Medical Engineering B133 Baxter 2:20 - 2:40 PM	Ting Syuan Huang National Taiwan University <i>BaBar SURF Fellow</i>	Ultrasound-induced flow control to reduce bacterial migration in urinary catheters	Chiara Daraio <i>G. Bradford Jones Professor of Mechanical Engineering and Applied Physics; Investigator, Heritage Medical Research Institute</i> Amanda Y. Lin <i>Graduate Student in Mechanical Engineering</i>
E - Chemistry 147 Noyes 1:20 - 1:40 PM	Lyna T. Huynh University of California, Riverside	Proteomic analysis of NAC interactions	Shu-ou Shan <i>Altair Professor of Chemistry</i> Radoslaw J. Gora <i>Postdoctoral Scholar</i> <i>Research Associate in Chemistry</i> Sunny Huang <i>Graduate Student in Biochemistry and Molecular Biophysics</i>
D - Chemistry 128 Baxter 1:40 - 2:00 PM	Aditya Jain University of Cambridge <i>Caltech-Cambridge Exchange</i>	Modelling the effects of tungsten alloying and surface oxidation on coverage-dependent hydrogen evolution in Ni_{17}W_3	William A. Goddard III <i>Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics</i> Sejun Kim <i>Postdoctoral Scholar</i> <i>Research Associate in Chemistry</i>

Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Aditya Jain University of Cambridge <i>Caltech-Cambridge Exchange</i>	Quantum mechanics based electrocatalysis	William A. Goddard III <i>Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics</i> Sejun Kim <i>Postdoctoral Scholar Research Associate in Chemistry</i>
V - Physics 103 Downs 1:20 - 1:40 PM	Adam M. Janik University of California, Los Angeles	Mapping the inner geometry of active galactic nuclei using Wiener Deconvolution of X-ray reverberation	Fiona A. Harrison <i>Harold A. Rosen Professor of Physics</i> Demet Kirmizibayrak <i>Postdoctoral Scholar Research Associate in Physics</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Adam M. Janik University of California, Los Angeles	Mapping the inner geometry of active galactic nuclei using Wiener Deconvolution of X-ray reverberation	Fiona A. Harrison <i>Harold A. Rosen Professor of Physics</i> Demet Kirmizibayrak <i>Postdoctoral Scholar Research Associate in Physics</i>
N - Geological and Planetary Sciences 142 Keck Laboratory 3:10 - 3:30 PM	Bianca D. Jaramillo California State University, Los Angeles	Identifying biomarkers for insect herbivory through stable isotope analysis	Julia Tejada <i>Assistant Professor of Geobiology; William H. Hurt Scholar</i>
K - Computer Science 113 Spalding Lab 2:20 - 2:40 PM	Oscar Jenner KTH Royal Institute of Technology	Strategic risk seeking in games	Eric V. Mazumdar <i>Assistant Professor of Computing and Mathematical Sciences and Economics</i> Nicolas Lanzetti <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i> Boris Velasevic <i>Graduate Student in Computing and Mathematical Sciences</i>
S - Mathematics 102 Spalding Lab 1:40 - 2:20 PM (joint presentation)	Minghao Ji Columbia University <i>VURP Fellow</i>	Q-Series invariants of hyperbolic 3-manifolds and their relation to logarithmic vertex operator algebras	Sergei G. Gukov <i>John D. MacArthur Professor of Theoretical Physics and Mathematics</i>

F - Chemical Engineering 106 Spalding Lab 1:20 - 1:40 PM	Emily Jiang Caltech <i>John Stauffer SURF Fellow</i>	Particle sedimentation in Newtonian and non- Newtonian fluids	Sujit Datta <i>Professor of Chemical Engineering, Bioengineering, and Biophysics</i> Mohamed Abdelgawad <i>Postdoctoral Scholar</i> Research Associate in Chemical Engineering Craig Singiser <i>Graduate Student in Chemical Engineering</i>
B - Biology 109 Jorgensen 1:40 - 2:00 PM	Zhicheng Jiang Fudan University <i>VURP Fellow</i>	Dissecting the neural circuitry of stress-induced gastrointestinal dysmotility	Yuki Oka <i>Professor of Biology; Investigator, Heritage Medical Research Institute</i> Bochuan Teng <i>Postdoctoral Scholar</i> Research Associate in Biology and Biological Engineering
I - Applied Physics and Electrical Engineering 135 Gates-Thomas 3:30 - 3:50 PM	Kehan Jiao University of California, Los Angeles	Localized reconstruction of electron-phonon interactions from first principles	Marco Bernardi <i>Professor of Applied Physics, Physics, and Materials Science</i> Yao Luo <i>Graduate Student in Materials Science</i>
R - Astronomy 151 Crellin 3:30 - 3:50 PM	Oliver R. Jones Williams College	Optimizing FRB observations with the Deep Synoptic Array	Vikram Ravi <i>Professor of Astronomy</i> Kaitlyn Shin <i>Postdoctoral Scholar</i> Research Associate in Astronomy
N - Geological and Planetary Sciences 142 Keck Laboratory 3:50 - 4:10 PM	Kyra Y. Jun Harvard College	Hormonal control of calcium isotope signals in humans: A mechanistic model of kidney handling, skeletal balance, and dietary restriction	François Tissot <i>Professor of Geochemistry; Investigator, Heritage Medical Research Institute</i> Theo J. Tacail <i>Postdoctoral Scholar</i> Research Associate in Geochemistry
U - Physics 269 Lauritsen 4:10 - 4:30 PM	Raghava K. Kalidindi University of Maryland, College Park	Long-distance time-bin entanglement distribution using dispersion compensation	Maria Spiropulu <i>Shang-Yi Ch'en Professor of Physics</i> Raju Valivarthi <i>Research Scientist in Quantum Science and Technology</i>
Q - Astronomy 100 Powell-Booth 2:20 - 2:40 PM	Nora K. Kane Caltech <i>Thomas Lauritsen SURF Fellow</i>	Constraining the critical Eddington ratio and variability signatures of changing-look AGN: A population-level study	Matthew J. Graham <i>Research Professor of Astronomy</i>

Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Minhyuk Kang Imperial College London	Dual-space orbital learning for electronic band structure prediction of periodic materials	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Beom Seok Kang <i>Graduate Student in Chemical Engineering</i>
W - Physics 107 Downs 3:10 - 3:30 PM	Chandrasekhar Kappagantula California Polytechnic State University, San Luis Obispo <i>Carl F. Braun WAVE Fellow</i>	Removing AGN contamination from millimeter-wave datasets to refine multiprobe triaxial analysis of galaxy clusters	Jack Sayers <i>Research Professor of Physics</i> Adriana Gavidia <i>Graduate Student in Physics</i> Harshda Saxena <i>Graduate Student in Astrophysics</i>
T - Physics 125 Baxter 3:50 - 4:10 PM	Thirtha Karmakar Truman State University	How well and how soon can LISA localize EMRIs on the sky? Parameter estimation within the global fit	Katerina Chatziioannou <i>Professor of Physics; William H. Hurt Scholar</i> Michael Katz
T - Physics 125 Baxter 2:50 - 3:10 PM	Jiri Kataman-Kustwan University of Illinois Urbana-Champaign <i>KNI SURF-the-WAVE Prize Fellow</i>	Strain-engineering of MoS ₂ /graphene/metal heterostructures	Nai-Chang Yeh <i>Thomas W. Hogan Professor of Physics</i> Jen-Te Chang <i>Graduate Student in Physics</i> Wen-Hao Chang <i>Postdoctoral Scholar</i> <i>Fellowship Trainee in Physics</i>
Q - Astronomy 100 Powell-Booth 1:00 - 1:20 PM	Gurmehar Kathuria University of California, Los Angeles	TIC 88297141Ab: A validated transiting planet around a young M dwarf in Upper Scorpius	Luke Bouma <i>Staff Scientist in IPAC</i>
G - Aeronautics and Mechanical Engineering B122 Gates-Annex 2:50 - 3:10 PM	Daavleen Kaur Iowa State University	Design and fabrication of in-situ loading frames for full-field deformation measurements on metamaterial structures	Angkur Shaikeea <i>Assistant Professor of Aerospace; Bren Scholar</i> Rosan Naik <i>Postdoctoral Scholar</i> <i>Research Associate in Aerospace</i>
R - Astronomy 151 Crellin 3:10 - 3:30 PM	Andrey Korolev Caltech <i>Chung Ip Wing-Wah Memorial SURF Fellow</i>	A reduced-order thermal model and multi-input controller for the HISPEC spectograph	Jake Zimmer <i>Electrical Engineer</i>
W - Physics 107 Downs 1:20 - 1:40 PM	Vijay R. Kumar University of California, Irvine	Growth and transport characterization of thin b-FeSe via confined flux synthesis	Linda Ye <i>Assistant Professor of Physics</i> Gabriel Perko-Engel <i>Graduate Student in Physics</i>

Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Alya Kurt Caltech	Image reconstruction in magnetic resonance imaging (MRI) through differentiable physics	Shreyas S. Vasanawala <i>Professor of Radiology; Director of MRI, Stanford Children's Hospital</i> Andres Collazo <i>Director of Biological Imaging Center</i>
E - Chemistry 147 Noyes 3:50 - 4:10 PM	Daniel S. Lai Duke University	Towards precise simulation of molecules with memory- efficient analytical gradients from auxiliary-field quantum Monte Carlo	Sandeep Sharma <i>Professor of Chemistry</i>
F - Chemical Engineering 106 Spalding Lab 3:10 - 3:30 PM	Chung Wang Lam University of Cambridge <i>Caltech-Cambridge Exchange</i>	Breaking down the concentration-dependent dielectric response of lithium battery electrolytes using atomistic simulations	Kara D. Fong <i>Assistant Professor of Chemical Engineering; William H. Hurt Scholar</i> Nidhish Lella <i>Graduate Student in Chemical Engineering</i>
D - Chemistry 128 Baxter 2:00 - 2:20 PM	Hsin-tien Lee National Taiwan University <i>BaBar SURF Fellow</i>	Development of a coarse- grained force field for perfluorononanoic acid (PFNA) micellization: From quantum mechanics and molecular dynamics to coarse-graining	William A. Goddard III <i>Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics</i> Sejun Kim <i>Postdoctoral Scholar Research Associate in Chemistry</i>
B - Biology 109 Jorgensen 2:50 - 3:10 PM	Jayden D. Lee University of California, San Diego	Chromatin accessibility and cofactor rules predict Runt regulatory behavior of the upstream <i>net</i> enhancer	Angelike Stathopoulos <i>Professor of Biology</i> Isaryhia M. Rodriguez <i>Graduate Student in Biology</i>
G - Aeronautics and Mechanical Engineering B122 Gates-Annex 3:30 - 3:50 PM	Taehan Lee Georgia Institute of Technology	Spectral analysis of supersonic cylinder wake	Joseph E. Shepherd <i>C.L. "Kelly" Johnson Professor of Aeronautics and Mechanical Engineering, Emeritus</i> William Feasey <i>Graduate Student in Aerospace</i>
W - Physics 107 Downs 3:30 - 3:50 PM	Chi Suen Leung The Chinese University of Hong Kong <i>VURP Fellow</i>	Covariance computation of CMB lensing power spectrum	Wai Ling Wu <i>Assistant Professor of Physics</i> Nicolas C. Ferree <i>Graduate Student Physics</i>
B - Biology 109 Jorgensen 1:00 - 1:20 PM	Christopher H. Leung University of Cambridge <i>Caltech-Cambridge Exchange</i>	Mathematical models of flexible neuronal participation	Carlos Lois <i>Research Professor of Biology</i>

K - Computer Science 113 Spalding Lab 2:50 - 3:10 PM	Jianxiang Li Peking University	Neural operator splitting for Monte Carlo fluid simulation	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Xi Deng <i>Postdoctoral Scholar</i> Research Associate in <i>Computing and Mathematical Sciences</i> Hong Chul Nam
A - Biology 127 Baxter 3:30 - 3:50 PM	Qianqian Li University of Cambridge <i>Caltech-Cambridge Exchange</i>	Toward absolute protein quantification in the mammalian circadian clock: Evaluating flow cytometry and Western blotting	Michael B. Elowitz <i>Roscoe Gilkey Dickinson Professor of Biology and Bioengineering;</i> <i>Investigator, Howard Hughes Medical Institute</i> Gal Manella <i>Postdoctoral Scholar</i> Research Associate in <i>Biology and Biological Engineering</i>
B - Biology 109 Jorgensen 1:20 - 1:40 PM	Reina E. Li Caltech <i>Ernest H. Swift SURF Fellow</i>	Adaptation of sympathetic nervous system in pregnancy	Yuki Oka <i>Professor of Biology;</i> <i>Investigator, Heritage Medical Research Institute</i> Wongyo Jung <i>Graduate Student in Neurobiology</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Yiyan Liao Peking University	Electronic effect-informed generative <i>de novo</i> enzyme design	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Yu Zhang <i>Postdoctoral Scholar</i> Research Associate in <i>Computing and Mathematical Sciences</i>
G - Aeronautics and Mechanical Engineering B122 Gates-Annex 1:00 - 1:20 PM	Yit Xueng Lim Caltech <i>The Associates SURF Fellow</i>	Effects of kinematic reference quality on dynamics-aware humanoid motion retargeting	Aaron D. Ames <i>Bren Professor of Mechanical and Civil Engineering, Control and Dynamical Systems, and Aerospace</i> Sergio A. Esteban <i>Graduate Student in Mechanical Engineering</i> Junheng Li <i>Postdoctoral Scholar</i> Research Associate in <i>Mechanical and Civil Engineering</i>
D - Chemistry 128 Baxter 3:50 - 4:10 PM	Anna L. Liu Massachusetts Institute of Technology <i>Amgen Scholar</i>	Synthesis and characterization of a trimetallic MNi ₂ complex for CO ₂ reduction	Theodor Agapie <i>John Stauffer Professor of Chemistry</i> Nicole Piekut <i>Graduate Student in Chemistry</i>

C - Biology 101 Schlinger 2:50 - 3:10 PM	Kara Z. Lo Caltech <i>Stanley and Chenmei Hsu SURF Fellow</i>	Characterizing estrogen- related receptor function during nephron tubule development using zebrafish	Marianne Bronner <i>Edward B. Lewis Professor of Biology</i> Tianli Qin <i>Postdoctoral Scholar</i> Research Associate in <i>Biology and Biological Engineering</i>
D - Chemistry 128 Baxter 2:20 - 2:40 PM	Avery C. Love North Carolina A&T State University <i>Preer WAVE Fellow</i>	Isolating and quantifying the pre-targeting complex of the GET pathway in <i>Aspergillus fumigatus</i>	William M. Clemons <i>Arthur and Marian Hanisch Memorial Professor of Biochemistry</i> Vida Robertson <i>Graduate Student in Biochemistry and Molecular Biophysics</i>
J - Applied Physics and Materials Science 153 Noyes 4:30 - 4:50 PM	Mark N. Luo Caltech <i>Carl F. Braun SURF Fellow</i>	Dose-controlled In-Ga eutectic delivery for oxide destabilization in additively manufactured ceramic structures	Katherine T. Faber <i>Simon Ramo Professor of Materials Science, Emeritus</i> Zachary Chase <i>Graduate Student in Materials Science</i>
F - Chemical Engineering 106 Spalding Lab 2:20 - 2:40 PM	Dzianis Mahila University of California, Santa Barbara <i>Resnick Sustainability Institute (RSI) WAVE Fellow</i>	Improving stability of peptide displaying Tobacco Mosaic Virus-Like Particles	Gözde S. Demirer <i>Clare Booth Luce Assistant Professor of Chemical Engineering</i> Andres Heredia <i>Graduate Student in Chemistry</i>
W - Physics 107 Downs 2:00 - 2:20 PM	Vasilisa K. Malenkiy Yale University <i>Institute for Quantum Information and Matter (IQIM) WAVE Fellow</i>	Time-resolved domain dynamics of microwave-driven quantum quenches in 3D quantum magnet LiHoF ₄	Thomas F. Rosenbaum <i>President Emeritus; William A. Fowler Professor of Physics</i> Daniel Silevitch <i>Research Professor of Physics</i>
T - Physics 125 Baxter 2:20 - 2:40 PM	Liliana L. Martin California Polytechnic State University, San Luis Obispo <i>Carl F. Braun WAVE Fellow</i>	Development of calibration sources and data acquisition software for hyperfine spectroscopy	Nick R. Hutzler <i>Professor of Physics</i> Madison Howard <i>Graduate Student in Physics</i> Roy Ready <i>Physics Teaching Laboratory Manager and Instructor</i>
B - Biology 109 Jorgensen 4:10 - 4:30 PM	Ian M. Mathews Vanderbilt University <i>Center for Environmental Microbial Interactions (CEMI) WAVE Fellow</i>	Single-step megabase addition and replacement in bacteria via conjugative CRISPR-associated transposition	Kaihang Wang <i>Assistant Professor of Biology and Biological Engineering</i> Raymond Zhang <i>Postdoctoral Scholar</i> Research Associate in <i>Biology and Biological Engineering</i>

C - Biology 101 Schlinger 4:10 - 4:30 PM	Philip-David Medows Caltech Taylor Lawrence SURF Research Fellow	Cues in exploratory dynamics: To sense or not to sense	Rob B. Phillips <i>Fred and Nancy Morris</i> Professor of Biophysics, Biology, and Physics Sara Mahdavi Graduate Student in Biochemistry and Molecular Physics
I - Applied Physics and Electrical Engineering 135 Gates-Thomas 4:30 - 4:50 PM	Todor Miljevic University of Iceland Caltech-University of Iceland Exchange	Design of a quantum bus for simultaneous all-to-all connectivity between superconducting qubits	Mohammad Mirhosseini Assistant Professor of Electrical Engineering and Applied Physics Parth Shah Graduate Student in Electrical Engineering Frank Yang Graduate Student in Applied Physics
I - Applied Physics and Electrical Engineering 135 Gates-Thomas 4:10 - 4:30 PM	Elizabeth J. Milne University of Cambridge Caltech-Cambridge Exchange	Mathematically modelling neuronal circuit recovery through activity dependent myelination	Michelle Effros George van Osdol Professor of Electrical Engineering
W - Physics 107 Downs 2:20 - 2:40 PM	Umar H. Mohammad Caltech Dr. Terry Cole SURF Fellow	Simulating and tracking domain evolution in the quantum Ising ferromagnet $\text{LiHo}_{0.65}\text{Y}_{0.35}\text{F}_4$	Thomas F. Rosenbaum President Emeritus; William A. Fowler Professor of Physics Daniel Silevitch Research Professor of Physics
U - Physics 269 Lauritsen 3:30 - 3:50 PM	Cecilia I. Moxley Caltech Carl F. Braun SURF Fellow	Study of signal response of SMSPDs exposed to high energy ionizing radiation	Maria Spiropulu Shang-Yi Ch'en Professor of Physics Soham Bhattacharya Postdoctoral Scholar Research Associate in Physics
J - Applied Physics and Materials Science 153 Noyes 1:20 - 1:40 PM	Yashwanth Nagarajan University of Illinois Urbana-Champaign	Verifying a continuum approximation for architected materials in three dimensions	Julia R. Greer Ruben F. and Donna Mettler Professor of Materials Science, Mechanics, and Medical Engineering Cyrus Fiori Graduate Student in Chemical Engineering
Q - Astronomy 100 Powell-Booth 3:10 - 3:30 PM	Klara S. Nager Stockholm University	Detective of the skies: Unveiling the hidden population of low-nickel-mass Type IIb supernovae	Mansi M. Kasliwal Professor of Astronomy Christoffer Fremling Staff Astronomer in Astrophysics

V - Physics 103 Downs 2:20 - 2:40 PM	Sam Nasri University of California, San Diego	Investigating the nature of a serendipitous hard X-ray source in the Kepler field	Fiona A. Harrison <i>Harold A. Rosen Professor of Physics</i> Hannah Earnshaw <i>NuSTAR Calibration and Data Scientist</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Abubakr S. Nazriev Caltech	High-performance radiative transfer and machine learning for gas remote sensing from space	Christian Frankenberg <i>Chandler Family Professor of Environmental Science and Engineering; Senior Research Scientist, JPL</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Brianna N. Newton University of California, San Diego <i>Chen Institute BrainWAVE Fellow</i>	Characterizing astrocyte-like glia morphology in the <i>Drosophila</i> larval antennal lobe	Carlos Lois <i>Research Professor of Biology</i> Aubrie L. De La Cruz <i>Research Scientist in Biology and Biological Engineering</i>
L - Computer Science B119 Baxter 4:30 - 4:50 PM	Huy N. Nguyen Michigan State University	Trimodal contrastive learning for joint conditional probability estimation in fluid dynamics	Andrew M. Stuart <i>Bren Professor of Computing and Mathematical Sciences</i> Hojjat Kaveh Claire Valva <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i>
D - Chemistry 128 Baxter 3:10 - 3:30 PM	Ifediora P. Nwakuche North Carolina Central University <i>Preer WAVE Fellow</i>	Molecular characterization of mRNA quality control in humans	Isaac Fianu <i>Assistant Professor of Biochemistry; William H. Hurt Scholar</i>
M - Mechanical Engineering and Medical Engineering B133 Baxter 3:50 - 4:10 PM	Kaan Baris Oktay University of California, Berkeley	Efficient pulse-width modulation techniques for time-reversal photoacoustic tomography	Lihong Wang <i>Bren Professor of Medical Engineering and Electrical Engineering</i> Indrasen Bhattacharya <i>Postdoctoral Scholar Fellowship Trainee in Medical Engineering</i>
W - Physics 107 Downs 2:50 - 3:10 PM	Alexander E. Oliver University of Cambridge <i>Caltech-Cambridge Exchange</i>	Phase space dynamics and systematic error analysis at the τ SPECT experiment	Brad W. Filippone <i>Francis L. Moseley Professor of Physics</i> Xiaozhe Zhu <i>Graduate Student in Physics</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Diya Pai University of Wisconsin- Madison	Reconstruction of muon detector showers using machine learning	Maria Spiropulu <i>Shang-Yi Ch'en Professor of Physics</i> Soham Bhattacharya <i>Postdoctoral Scholar Research Associate in Physics</i>

T - Physics 125 Baxter 1:20 - 1:40 PM	Bo-Syun Pan National Taiwan University <i>BaBar SURF Fellow</i>	Sample-optimal Gaussian-state tomography with single-copy nonadaptive Gaussian measurements	John P. Preskill <i>Richard P. Feynman Professor of Theoretical Physics</i> Senrui Chen <i>IQIM Postdoctoral Scholar</i> Research Associate in Theoretical Physics
E - Chemistry 147 Noyes 2:00 - 2:20 PM	Martin B. Panicacci University of California, Santa Barbara <i>Chen Institute BrainWAVE Fellow</i>	Developing chemical tools for the inhibition of chondroitin sulfate glycosaminoglycan sulfotransferases to enhance neuronal regrowth	Linda C. Hsieh-Wilson <i>Milton and Rosalind Chang Professor of Chemistry; Merkin Institute Professor</i> Cassandra N. Cancemi <i>Graduate Student in Chemistry</i> Sophia Gonzalez <i>Graduate Student in Chemistry</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Delia N. Parco Smith College <i>Amgen Scholar</i>	Investigating the role of insulin signaling in zebrafish meningeal and neural development	Marianne Bronner <i>Edward B. Lewis Professor of Biology</i> Ayyappa Raja <i>Senior Postdoctoral Scholar</i> Research Associate in Biology and Biological Engineering
S - Mathematics 102 Spalding Lab 3:50 - 4:10 PM	Caleb Pascale Massachusetts Institute of Technology	Quantifying Gaussian decompositions of subgaussian random vectors and towards the convexity conjecture for solid sets	Antoine Song <i>Professor of Mathematics</i>
K - Computer Science 113 Spalding Lab 1:00 - 1:20 PM	Amrita Pasupathy Caltech <i>Candace Rypisi SURF Fellow</i>	Synthetic data-driven knowledge integration for large language models	Yisong Yue <i>Professor of Computing and Mathematical Sciences</i> Lauren Hyoseo Yoon <i>Graduate Student in Computation and Neural Systems</i>
S - Mathematics 102 Spalding Lab 1:20 - 1:40 PM	Avigya Paudel Union College	Change of variables and difficulty measures for stable Andrews-Curtis search	Sergei G. Gukov <i>John D. MacArthur Professor of Theoretical Physics and Mathematics</i> Michele Tarquini <i>Graduate Student in Physics</i> Lucas Fagan <i>Research Scientist in Mathematics</i>

H - Aeronautics
133 Guggenheim
3:50 - 4:10 PM

Anshi Paul
Caltech
*Maria Jabon Memorial
SURF Fellow*

Reducing blade-wake
interaction noise from
upstream propeller shroud
geometries on M4 Phoenix

Mory Gharib
*Hans W. Liepmann Professor of
Aeronautics and Medical
Engineering*
Reza M. Nemovi
*Research Engineering
Assistant and Lab
Coordinator in Aerospace*
Matthew Anderson
Staff Scientist in Aerospace

Poster Session
Hameetman
Multipurpose Room
4:00 - 6:00 PM

Nikhita Penugonda
Caltech
*Samuel P. and Frances
Krown SURF Fellow*

Sharpening the search:
Optimizing missed NEO
detections for NEO Surveyor

Joseph Masiero
*NEO Surveyor Lead Scientist
in IPAC*
Ishan Mishra
Staff Scientist in IPAC

G - Aeronautics and
Mechanical Engineering
B122 Gates-Annex
2:00 - 2:20 PM

Deon F. Petrizzo
Caltech
*Mr. and Mrs. Robert C.
Loschke SURF Fellow*

Fast configuration-space
convex set computation for
optimal motion planning

Aaron D. Ames
*Bren Professor of Mechanical
and Civil Engineering,
Control and Dynamical
Systems, and Aerospace*
Blake Werner
*Graduate Student in
Mechanical Engineering*
Taoran Liu

L - Computer Science
B119 Baxter
1:00 - 1:20 PM

Yash Pincha
Imperial College London

Sub-grid black holes:
Learning the multi-scale
dynamics of accretion
feedback

Anima Anandkumar
*Bren Professor of Computing
and Mathematical Sciences*
Chuwei Wang
*Graduate Student in
Computing and
Mathematical Sciences*
Haiyang Wang
Graduate Student in Physics
Elias Most
*Assistant Professor of
Theoretical Astrophysics;
William H. Hurt Scholar*

V - Physics
103 Downs
2:00 - 2:20 PM

Sarah L. Pinto
Harvard College
WAVE Fellow

Disk-wind diagnostics from
the 2025 outburst of black
hole transient IGR J17091-
3624

Fiona A. Harrison
*Harold A. Rosen Professor of
Physics*
Shina Adegoke
*Postdoctoral Scholar
Research Associate in
Physics*

Poster Session
Hameetman
Multipurpose Room
4:00 - 6:00 PM

Francesco Plastina
Harvard University

Engineering fluorescent
proteins for robust magnetic
field sensing in mammalian
cells

Mikhail G. Shapiro
*Max Delbrück Professor of
Chemical Engineering and
Medical Engineering;
Investigator, Howard
Hughes Medical Institute*
Hengyu Li
*Graduate Student in
Chemistry*

J - Applied Physics and Materials Science 153 Noyes 4:10 - 4:30 PM	Benjamin D. Porosoff Caltech <i>The Associates SURF Fellow</i>	Dynamic control of solidification conditions via a movable platform for scalable freeze casting	Katherine T. Faber <i>Simon Ramo Professor of Materials Science, Emeritus</i> Wesley D. Patel <i>Graduate Student in Chemical Engineering</i>
V - Physics 103 Downs 2:50 - 3:10 PM	Amelie E. Rajab University of California, San Diego <i>WAVE Fellow</i>	Infrared variability studies of Active Galactic Nuclei with SPHEREx	Fiona A. Harrison <i>Harold A. Rosen Professor of Physics</i> Elias Kammoun <i>Research Scientist in Astronomy</i>
J - Applied Physics and Materials Science 153 Noyes 3:30 - 3:50 PM	Avani Ranka Swarthmore College	Spontaneous chiral symmetry breaking of counter-propagating modes via the Kerr nonlinearity within ultra-high-quality factor optical resonators	Kerry J. Vahala <i>Ted and Ginger Jenkins Professor of Information Science and Technology and Professor of Applied Physics</i> Haojing Chen <i>Postdoctoral Scholar Research Associate in Applied Physics and Materials Science</i>
L - Computer Science B119 Baxter 3:10 - 3:30 PM	Tanish Rao Caltech <i>Dr. Jane Chen SURF Fellow</i>	Simulation-trained neural reconstruction of ultrasound data for detecting brain micrometastases	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Ryan Han <i>Graduate Student in Computing and Mathematical Sciences</i>
B - Biology 109 Jorgensen 3:10 - 3:30 PM	Krish U. Raval University of California, Berkeley	Mapping regulatory networks underlying glioblastoma treatment resistance using network inference modeling of spatially resolved CRISPR perturbations	Matthew W. Thomson <i>Professor of Computational Biology; Investigator, Heritage Medical Research Institute</i>
M - Mechanical Engineering and Medical Engineering B133 Baxter 3:10 - 3:30 PM	Carlo A. Repetto University of California, Davis	Energy and momentum transport through 3D-printed graded auxetic lattice structures subjected to impact	Guruswami Ravichandran <i>John E. Goode, Jr., Professor of Aerospace and Mechanical Engineering</i> Aditya B. Shedge <i>Graduate Student in Mechanical Engineering</i>
F - Chemical Engineering 106 Spalding Lab 1:40 - 2:00 PM	Kaylah Y. Rhee Caltech <i>Edward W. Hughes SURF Fellow</i>	Gas compressibility in the compression-driven displacement of non-Newtonian fluids in a capillary tube	Sujit Datta <i>Professor of Chemical Engineering, Bioengineering, and Biophysics</i> Mohamed Abdelgawad <i>Postdoctoral Scholar Research Associate in Chemical Engineering</i> Craig Singiser <i>Graduate Student in Chemical Engineering</i>

B - Biology 109 Jorgensen 4:30 - 4:50 PM	Faith M. Rosas California State Polytechnic University, Pomona <i>WAVE Fellow</i>	Using the Electrophoretic Mobility Shift Assay (EMSA) to test direct DNA binding in dArc1 autoregulation	Kai G. Zinn <i>Howard and Gwen Laurie Smits Professor of Biology</i> Peter H. Lee <i>Research Scientist in Biology</i>
B - Biology 109 Jorgensen 2:20 - 2:40 PM	Conner I. Sakae University of California, Los Angeles <i>Amgen Scholar</i>	Establishing genetic methods for chemoreceptor manipulation in rove beetles	Joseph Parker <i>Professor of Biology and Biological Engineering</i> Hayley Smihula <i>Graduate Student in Neurobiology</i>
J - Applied Physics and Materials Science 153 Noyes 2:50 - 3:10 PM	Kensei Sakamoto University of Oxford	Design and optimization of adiabatic coupling to focused- ion-beam-fabricated photonic cavities	Andrei Faraon <i>William L. Valentine Professor of Applied Physics and Electrical Engineering</i> Emanuel Green <i>Graduate Student in Applied Physics</i>
G - Aeronautics and Mechanical Engineering B122 Gates-Annex 4:10 - 4:30 PM	Jorge Sanz Sanchez Universidad Carlos III de Madrid/UCLA (Exchange)	Modeling vaporization and pre-ignition dynamics in a cubic test cell relevant to the ASTM E659 apparatus	Joseph E. Shepherd <i>C.L. "Kelly" Johnson Professor of Aeronautics and Mechanical Engineering, Emeritus</i> Charline Fouchier <i>Senior Postdoctoral Scholar Research Associate in Aerospace</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Conor K. Sargent Northwestern University	Dual-frequency SWV measurements of aptamer sensor drift during extended continuous monitoring in artificial and real sweat	Wei Gao <i>Professor of Medical Engineering; Investigator, Heritage Medical Research Institute</i> Hyunah Ahn <i>Visitor in Medical Engineering</i>
M - Mechanical Engineering and Medical Engineering B133 Baxter 1:40 - 2:00 PM	Aritz Schube Barriola Caltech	Validating a computational flow solver against experimental data for multi- fidelity aerodynamic shape optimization	Steven Brunton <i>Professor of Mechanical Engineering, University of Washington</i> Ana Larrañaga <i>Acting Assistant Professor of Mechanical Engineering, University of Washington</i> Patricia Garcia Caspueñas <i>Graduate Student in Mechanical Engineering, University of Washington</i> Matthew M. Gherman <i>Hearst Postdoctoral Scholar Teaching Fellow in Mathematics</i>

M - Mechanical Engineering
and Medical Engineering
B133 Baxter
1:20 - 1:40 PM

Sebastian A. Seda
University of Maryland,
Baltimore County
*Southern California Edison
WAVE Fellow*

Are three-dimensional
detonation waves in a
confined domain "realistic"?

Guillaume Blanquart
*Professor of Mechanical
Engineering*
Benjamin R. Breer
*Graduate Student in
Mechanical Engineering*

Poster Session
Hameetman
Multipurpose Room
4:00 - 6:00 PM

Eric F. Segrest
University of Central Florida
*Information Science and
Technology (IST) Venerable
WAVE Fellow*

Encoding and replicating
hierarchical spatial
information in reaction-
diffusion systems

Erik Winfree
*Professor of Computer
Science, Computation and
Neural Systems, and
Bioengineering*
Daichi Hayakawa
*Postdoctoral Scholar
Research Associate in
Biology and Biological
Engineering*

G - Aeronautics and
Mechanical Engineering
B122 Gates-Annex
1:40 - 2:00 PM

Hampus G. Serneke
Lund University

Anytime safe reinforcement
learning using safe gradient
flows in robotic control

Aaron D. Ames
*Bren Professor of Mechanical
and Civil Engineering,
Control and Dynamical
Systems, and Aerospace*
Pol Mestres
*Postdoctoral Scholar
Research Associate in
Mechanical and Civil
Engineering*

G - Aeronautics and
Mechanical Engineering
B122 Gates-Annex
4:30 - 4:50 PM

Luis Y. Serrano Laguna
Caltech
*Toshi Kubota Aeronautics
SURF Fellow*

Advancing ASTM E659
testing: Thermal modeling of
ASTM E659 apparatus

Joseph E. Shepherd
*C.L. "Kelly" Johnson
Professor of Aeronautics and
Mechanical Engineering,
Emeritus*
Charline Fouchier
*Senior Postdoctoral Scholar
Research Associate in
Aerospace*

I - Applied Physics and
Electrical Engineering
135 Gates-Thomas
2:20 - 2:40 PM

Elizabeth Seward
Yale University
*KNI SURF-the-WAVE Prize
Fellow*

On-chip mid-infrared optical
parametric oscillation in
thin-film lithium niobate-on-
sapphire

Alireza Marandi
*Professor of Electrical
Engineering and Applied
Physics*
Selina Zhou
*Graduate Student in
Electrical Engineering*

T - Physics
125 Baxter
1:40 - 2:00 PM

Nyan A. Sharma
University of California,
San Diego

Time estimation in chaotic
quantum systems

John P. Preskill
*Richard P. Feynman
Professor of Theoretical
Physics*
Shreya Vardhan
*IQIM Postdoctoral Scholar
Research Associate in
Theoretical Physics*

K - Computer Science
113 Spalding Lab
3:50 - 4:10 PM

Jucheng Shen
Rice University

Length generalization in
continuous diffusion language
models with spectral
representations and neural
operators

Anima Anandkumar
*Bren Professor of Computing
and Mathematical Sciences*
Robert Joseph George
*Graduate Student in
Computing and
Mathematical Sciences*
Jiachen Yao
*Graduate Student in
Computing and
Mathematical Sciences*

Q - Astronomy
100 Powell-Booth
2:00 - 2:20 PM

Yang Shen
Harvey Mudd College

Finding supermassive black
hole binaries with machine
learning in preparation for
space-based gravitational
wave detection

David O. Cook
Staff Scientist, IPAC
Matthew J. Graham
*Research Professor of
Astronomy*

L - Computer Science
B119 Baxter
3:30 - 3:50 PM

Erh-Wei Sheng
National Tsing Hua
University

SU(2)-equivariant neural
networks for magnetic
molecules

Anima Anandkumar
*Bren Professor of Computing
and Mathematical Sciences*
Beom Seok Kang
*Graduate Student in
Chemical Engineering*
Danish Khan
*Postdoctoral Scholar
Research Associate in
Computing and
Mathematical Sciences*
Yuchao Lin
*Postdoctoral Scholar
Research Associate in
Computing and
Mathematical Sciences*

Poster Session
Hameetman
Multipurpose Room
4:00 - 6:00 PM

Anika Shethia
Yale University
Amgen Scholar

Neural and behavioral
correlates of social connection
during human-AI interaction

Dean Mobbs
*Professor of Cognitive
Neuroscience*
Emily Towner
*Postdoctoral Scholar
Research Associate in
Computational Neuroscience
of Social Media and Emotion*

I - Applied Physics and
Electrical Engineering
135 Gates-Thomas
2:50 - 3:10 PM

Han Na Shin
Scripps College

First-principles approach to
optical excitations of coherent
phonons

Marco Bernardi
*Professor of Applied Physics,
Physics, and Materials
Science*
Sergei Kliavinek
*Graduate Student in
Materials Science*

T - Physics
125 Baxter
2:00 - 2:20 PM

Myeongjin Shin
Korea Advanced Institute of
Science and Technology
VURP Fellow

Certifying and learning
Hamiltonians with single-qubit
gates

John P. Preskill
*Richard P. Feynman
Professor of Theoretical
Physics*
Yu Tong

F - Chemical Engineering 106 Spalding Lab 3:30 - 3:50 PM	Ali Raza Sial Rice University	Fixing nitrogen, faster: A reproducible, high-throughput approach to lithium-mediated ammonia synthesis	Karthish Manthiram <i>Bren Professor of Chemical Engineering and Chemistry; William H. Hurt Scholar</i> Gangsan Lee <i>Postdoctoral Scholar Fellowship Trainee in Chemical Engineering</i>
J - Applied Physics and Materials Science 153 Noyes 2:20 - 2:40 PM	Ziad Siala Caltech <i>Larson Scholar</i>	Reduction pathway control and characterization of HIAM lattices	Julia R. Greer <i>Ruben F. and Donna Mettler Professor of Materials Science, Mechanics, and Medical Engineering</i> Anna Wu <i>Graduate Student in Materials Science</i>
J - Applied Physics and Materials Science 153 Noyes 3:10 - 3:30 PM	Nimisha Sivaraman University of California, Berkeley <i>KNI SURF-the-WAVE Prize Fellow</i>	Designing a superconducting microwave resonator to magnetically couple to $^{171}\text{Yb}^{3+}:\text{CaWO}_4$	Andrei Faraon <i>William L. Valentine Professor of Applied Physics and Electrical Engineering</i> Chengyi Luo <i>AWS Quantum Postdoctoral Scholar Research Associate in Applied Physics and Materials Science</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Jessica Slaughter University of Maryland, Baltimore County <i>KNI SURF-the-WAVE Prize Fellow</i>	Lactadherin-modified biosensor for detection of inflammatory biomarker in perspiration	Wei Gao <i>Professor of Medical Engineering; Investigator, Heritage Medical Research Institute</i> Jeonghee Yeom <i>Visitor in Medical Engineering</i>
O - Geological and Planetary Sciences B125 Baxter 1:00 - 1:20 PM	Colin Smith University of California, Berkeley	A close look at the dust clump in the Beta Pictoris debris disk	Konstantin Batygin <i>Professor of Planetary Science</i> Yinuo Han <i>Postdoctoral Scholar Research Associate in Planetary Science</i>
E - Chemistry 147 Noyes 2:20 - 2:40 PM	Wiktor Sobczynski University of Iceland <i>Caltech-University of Iceland Exchange</i>	Mechanistic studies of b-oxidation in saturated dietary fatty acids	Johannes Morstein <i>Assistant Professor of Chemistry and Chemical Engineering</i> Binyou Wang <i>Postdoctoral Scholar Research Associate in Chemistry</i>
D - Chemistry 128 Baxter 2:50 - 3:10 PM	Emily A. Stanton Caltech <i>John Stauffer SURF Fellow</i>	Designing a gas cell for the first ultrafast all-electron spectrometer	Scott K. Cushing <i>Assistant Professor of Chemistry</i> Bethany De Roulet <i>Postdoctoral Scholar Fellowship Trainee in Chemistry</i>

S - Mathematics 102 Spalding Lab 1:00 - 1:20 PM	Elliot D. Steffen University of Indianapolis <i>Southern California Edison WAVE Fellow</i>	Developing improved computational algorithms for the stable Andrews-Curtis conjecture	Sergei G. Gukov <i>John D. MacArthur Professor of Theoretical Physics and Mathematics</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Theodore K. Stoltz University of California, Los Angeles	A pose-based pipeline for automated tennis shot detection and serve analysis for coaching applications	Pietro Perona <i>Allen E. Puckett Professor of Electrical Engineering</i> Ilona Demler <i>Graduate Student in Computing and Mathematical Sciences</i>
R - Astronomy 151 Crellin 2:00 - 2:20 PM	Melvin Storbacka KTH Royal Institute of Technology <i>VURP Fellow</i>	Probing far-from-equilibrium strangeness-driven bulk viscosity in binary neutron star inspirals	Elias R. Most <i>Assistant Professor of Theoretical Astrophysics; William H. Hurt Scholar</i> Jiaxi Wu <i>Graduate Student in Physics</i>
R - Astronomy 151 Crellin 1:20 - 1:40 PM	Ming To Suen Columbia University <i>VURP Fellow</i>	Extreme long-duration Be star outbursts discovered with NEOWISE	Lynne Hillenbrand <i>Professor of Astronomy</i>
S - Mathematics 102 Spalding Lab 3:30 - 3:50 PM	Alyna X. Tang Caltech <i>Olga Taussky-Todd SURF Fellow</i>	Formal languages and aperiodic spin chains on the boundaries of hyperbolic tilings	Matilde Marcolli <i>Robert F. Christy Professor of Mathematics and Computing and Mathematical Sciences</i>
S - Mathematics 102 Spalding Lab 4:10 - 4:30 PM	Lizzie V. Teryoshin University of California, San Diego <i>Carl F. Braun WAVE Fellow</i>	The Schauder fixed point property for countable amenable groups	Omer Tamuz <i>Professor of Economics and Mathematics</i>
F - Chemical Engineering 106 Spalding Lab 2:00 - 2:20 PM	Isaac L. Thompson Caltech <i>David S. Koons SURF Fellow</i>	Banding phenomena in rotating viscoelastic polymer solutions	Sujit Datta <i>Professor of Chemical Engineering, Bioengineering, and Biophysics</i> Mohamed Abdelgawad <i>Postdoctoral Scholar Research Associate in Chemical Engineering</i>
A - Biology 127 Baxter 1:00 - 1:20 PM	Arman M. Thoresen University of California, Irvine <i>Amgen Scholar</i>	Developing a human tonsil organoid workflow for single- cell antibody discovery using the Beacon optofluidics platform	Pamela J. Bjorkman <i>David Baltimore Professor of Biology and Biological Engineering; Merken Institute Professor</i> Kate Malecek <i>Lab Manager for the Berkeley Lights Beacon Instrument</i>

N - Geological and Planetary Sciences 142 Keck Laboratory 1:00 - 1:20 PM	Hanna J. Timek University of Michigan <i>Amgen Scholar</i>	Towards engineering <i>Azotobacter vinelandii</i> for characterization of non-canonical nitrogenase	Smruthi Karthikeyan <i>Gordon and Carol Treweek Assistant Professor of Environmental Science and Engineering; William H. Hurt Scholar</i> Zahra Shivji <i>Graduate Student in Chemical Engineering</i>
I - Applied Physics and Electrical Engineering 135 Gates-Thomas 1:20 - 1:40 PM	Cayley Y. Tolbert-Schwartz Yale University <i>KNI SURF-the-WAVE Prize Fellow</i>	Surface plasmon resonance spectroscopy for investigating the growth of molecular additive layers on copper for CO ₂ reduction	Harry A. Atwater <i>Howard Hughes Professor of Applied Physics and Materials Science</i> Ellis Spickermann <i>Graduate Student in Materials Science</i>
U - Physics 269 Lauritsen 1:20 - 1:40 PM	Ajla Trumic University of California, Berkeley <i>BaBar SURF Fellow</i>	Machine learning-driven waveform reconstruction and split-off recovery for the Mu2e electromagnetic calorimeter	Bertrand Echenard <i>Research Professor of High Energy Physics</i> David G. Hitlin <i>Professor of Physics</i>
B - Biology 109 Jorgensen 3:30 - 3:50 PM	Edmund Tsou Johns Hopkins University <i>Amgen Scholar</i>	CellSAM3: A promptable foundation model for cell segmentation and tracking	David A. Van Valen <i>Assistant Professor of Biology and Biological Engineering; Investigator, Heritage Medical Research Institute; HHMI Freeman Hrabowski Scholar</i> Ross Barnowski <i>Software Engineer in Biology and Biological Engineering</i>
R - Astronomy 151 Crellin 1:40 - 2:00 PM	Tyler N. Tuttle University of California, San Diego	Breaking orbital degeneracies of directly imaged companions using KPIC relative radial velocities	Dimitri P. Mawet <i>David Morrisroe Professor of Astronomy; Senior Research Scientist, JPL</i> Clarissa R. Do O <i>B. Thomas Soifer Postdoctoral Scholar</i> <i>Research Associate in Astronomy</i>
A - Biology 127 Baxter 1:20 - 1:40 PM	Emil K. Uddevik Imperial College London	Can we study growth arrest in diverse bacteria using electrochemistry?	Dianne K. Newman <i>Gordon M. Binder/Amgen Professor of Biology and Geobiology; Merkin Institute Professor</i> Kemal Demirer <i>Graduate Student in Biology</i>
J - Applied Physics and Materials Science 153 Noyes 1:40 - 2:00 PM	Noah H. Van Beurden Caltech	Development of a dual-wavelength MSLA platform for spatially controlled photopolymerization of multi-material nanocomposites	Julia R. Greer <i>Ruben F. and Donna Mettler Professor of Materials Science, Mechanics, and Medical Engineering</i> Kaleb Funk <i>Graduate Student in Materials Science</i>

R - Astronomy
151 Crellin
2:20 - 2:40 PM

Grant D. Van Gerpen
Georgia Institute of
Technology

Accelerating simulations of
black hole accretion using
time dilation

Elias R. Most
*Assistant Professor of
Theoretical Astrophysics;
William H. Hurt Scholar*

G - Aeronautics and
Mechanical Engineering
B122 Gates-Annex
2:20 - 2:40 PM

Alexander F. Vasquez
Pontificia Universidad
Catolica del Peru

Actuated perception for sage
autonomous target following
on humanoid robots

Aaron D. Ames
*Bren Professor of Mechanical
and Civil Engineering,
Control and Dynamical
Systems, and Aerospace*

B - Biology
109 Jorgensen
2:00 - 2:20 PM

Y Lam Voong
Pasadena City College
*Center for Evolutionary
Science EVO-WAVE Fellow*

Adapting pharmaceuticals for
in vivo manipulations of rove
beetle chemoreceptors

Joseph Parker
*Professor of Biology and
Biological Engineering
Hayley Smihula
Graduate Student in
Neurobiology*

Poster Session
Hameetman
Multipurpose Room
4:00 - 6:00 PM

Ahmad Wahab
Dartmouth College

Fault-tolerant coordination for
the Near-Earth Object
Surveyor ground data system

Joseph Masiero
*NEO Surveyor Lead Scientist
in IPAC
Analetta Ehler
Systems Engineer in IPAC*

L - Computer Science
B119 Baxter
3:50 - 4:10 PM

Robert R. Walker
Caltech
Carol Casey SURF Fellow

A survey on relational
database course pedagogy

Ethan Ordentlich
*Teaching Assistant Professor
of Computing and
Mathematical Sciences*

U - Physics
269 Lauritsen
3:10 - 3:30 PM

Alice T. Wang
University of Chicago
*Southern California Edison
WAVE Fellow*

Engineering explosive
synchronization in an 8-node
NEMS oscillator network

Michael L. Roukes
*Frank J. Roshek Professor of
Physics, Applied Physics,
and Bioengineering
Scott T. Habermehl
Postdoctoral Scholar
Research Associate in
Applied Physics*

N - Geological and Planetary
Sciences
142 Keck Laboratory
1:20 - 1:40 PM

Jeremy C. Wang
Dartmouth College

Integrating results from ice
shelf finite element method
models into observational
scheduling approaches for a
high-altitude radar remote
sensing drone

Brent Minchew
*Professor of Geophysics
Evan Kramer
Seismological Laboratory
Director's Postdoctoral
Scholar Research Associate
in Geophysics*

H - Aeronautics
133 Guggenheim
2:20 - 2:40 PM

Minran Wang
Caltech

Perceptive terrain traversal
for humanoid robots via
route-conditioned reference
generation and learned
tracking

Soon-Jo Chung
*Bren Professor of Control
and Dynamical Systems;
Senior Research Scientist,
JPL
Vrushabh Zinage
Postdoctoral Scholar
Research Associate in
Computing and
Mathematical Sciences*

K - Computer Science 113 Spalding Lab 4:30 - 4:50 PM	Ruibao Wang Delft University of Technology	Coarse-to-fine 3D MRI reconstruction via resolution- agnostic neural operators	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Valentin Duruisseaux <i>Postdoctoral Scholar</i> Research Associate in Computing and Mathematical Sciences
H - Aeronautics 133 Guggenheim 2:00 - 2:20 PM	Yuyang Wang Caltech	Online adaptation for general humanoid whole-body tracking	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems;</i> <i>Senior Research Scientist,</i> <i>JPL</i> Vrushabh Zinage <i>Postdoctoral Scholar</i> Research Associate in Computing and Mathematical Sciences
L - Computer Science B119 Baxter 1:20 - 1:40 PM	Miles M. Waugh University of California, Irvine	Parameter-conditioned neural operators for size- generalizable dynamics in driven Hubbard-Holstein systems	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Chuwei Wang <i>Graduate Student in</i> <i>Computing and</i> <i>Mathematical Sciences</i>
E - Chemistry 147 Noyes 1:00 - 1:20 PM	Kyler E. Williams Caltech <i>John Stauffer SURF Fellow</i>	Developing a molecular replacement method for phasing low-resolution MicroED data of paramagnetic transition metal complexes	Hosea Nelson <i>Professor of Chemistry</i> Sam Mussetter <i>Graduate Student in</i> <i>Chemistry</i>
C - Biology 101 Schlinger 3:30 - 3:50 PM	Jaidyn M. Woods Caltech <i>Rossum Family SURF Fellow</i>	Tbx1 gene regulatory network in mandibular development	Marianne Bronner <i>Edward B. Lewis Professor of Biology</i> Sierra S. Marable <i>Senior Postdoctoral Scholar</i> <i>Fellowship Trainee in</i> <i>Biology and Biological</i> <i>Engineering</i>
N - Geological and Planetary Sciences 142 Keck Laboratory 2:20 - 2:40 PM	Hung-Chih Wu National Taiwan University <i>BaBar SURF Fellow</i>	Implementation of an observation simulator in ClimaAtmos.jl	Tapio Schneider <i>Theodore Y. Wu Professor of</i> <i>Environmental Science and</i> <i>Engineering</i> Zhaoyi Shen <i>Lead Research Scientist in</i> <i>the Global Environmental</i> <i>Center</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Jiayi Wu Brown University	The Type-Theory Virtual Machine: A logic-aware, compiler-like system for theorem-prover interoperability	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Robert Joseph George <i>Graduate Student in</i> <i>Computing and</i> <i>Mathematical Sciences</i>

M - Mechanical Engineering and Medical Engineering B133 Baxter 2:00 - 2:20 PM	Justin J. Wu Caltech	Reduced-order temporal forecasting of Southern North Sea velocity fields	Steven Brunton <i>Professor of Mechanical Engineering, University of Washington</i> Freja Petersen <i>Visiting Researcher, University of Washington</i> Matthew M. Gherman <i>Hearst Postdoctoral Scholar</i> Teaching Fellow in <i>Mathematics</i>
L - Computer Science B119 Baxter 1:40 - 2:00 PM	Chuyang Xiang Shanghai Jiao Tong University <i>VURP Fellow</i>	Sub-grid black holes: Learning the multi-scale dynamics of accretion feedback	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Chuwe Wang <i>Graduate Student in Computing and Mathematical Sciences</i>
K - Computer Science 113 Spalding Lab 2:00 - 2:20 PM	Xinran Xie Caltech <i>Carolyn Ash SURF Fellow</i>	Streaming state-space hybrid mesh recovery model	Pietro Perona <i>Allen E. Puckett Professor of Electrical Engineering</i> Ilona Demler <i>Graduate Student in Computing and Mathematical Sciences</i>
Q - Astronomy 100 Powell-Booth 1:20 - 1:40 PM	Allison A. Xu Caltech <i>Edward C. Stone Voyager SURF Fellow</i>	Preparing for the deluge of brown dwarfs in NEO Surveyor data	Joseph Kirkpatrick <i>Project Scientist in IPAC</i> Christopher Gelino <i>Staff Scientist in IPAC</i> Federico Marocco <i>Staff Scientist in IPAC</i>
S - Mathematics 102 Spalding Lab 2:50 - 3:10 PM	Chenning Xu Caltech <i>Ryser SURF Fellow</i>	Tracial joint spectral measure for nearly commuting matrices	Otte Heinaevaara <i>Scott Russell Johnson Postdoctoral Scholar</i> Teaching Fellow in <i>Mathematics</i>
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Ruoyun Xu Carnegie Mellon University	Optimizing sequential resin- latex extractions from guayule through analytical characterizations	Julia A. Kornfield <i>Warren and Katharine Schlinger Professor of Chemical Engineering</i> Florence Mueller <i>Postdoctoral Scholar</i> Fellowship Trainee in <i>Chemical Engineering</i>
T - Physics 125 Baxter 3:10 - 3:30 PM	Cheng-Hsun Yang National Taiwan University <i>BaBar SURF Fellow</i>	Integration of PL spectroscopy and twisted light-assisted STM for nanoscale exciton research on ML-MoS ₂	Nai-Chang Yeh <i>Thomas W. Hogan Professor of Physics</i> Jen-Te Chang <i>Graduate Student in Physics</i>

C - Biology 101 Schlinger 4:30 - 4:50 PM	Zitao Yang Caltech Thomas Hunt Morgan SURF Fellow	Energetics of gradients in biology	Rob B. Phillips <i>Fred and Nancy Morris Professor of Biophysics, Biology, and Physics</i> Sara Mahdavi <i>Graduate Student in Biochemistry and Molecular Physics</i> Minakshi Ashok <i>Graduate Student in Bioengineering</i>
P - Humanities and Social Sciences B125 Baxter 2:50 - 3:10 PM	Jovyttta E. Yauwanta National Taiwan University	Predicting eye movements from personality traits in autism	Ralph Adolphs <i>Bren Professor of Psychology, Neuroscience, and Biology</i> Qianying Wu <i>Scientific Researcher in Humanities and Social Sciences</i>
T - Physics 125 Baxter 3:30 - 3:50 PM	Tzu-Ning Yen National Tsing Hua University BaBar SURF Fellow	Direct growth of graphene on nanopatterned substrates for clean 2D heterostructure fabrication	Nai-Chang Yeh <i>Thomas W. Hogan Professor of Physics</i> Jen-Te Chang <i>Graduate Student in Physics</i>
I - Applied Physics and Electrical Engineering 135 Gates-Thomas 3:50 - 4:10 PM	Chieh-An Yu National Taiwan University BaBar SURF Fellow	First-principles modeling of phonon-mediated anomalous Hall transport in magnetic materials	Marco Bernardi <i>Professor of Applied Physics, Physics, and Materials Science</i> Lauren A. Tan <i>Graduate Student in Chemistry</i>
B - Biology 109 Jorgensen 3:50 - 4:10 PM	Zhenxi Yuan Rice University VURP Fellow	TMED8 selectively promotes kappa opioid receptor biogenesis	Rebecca M. Voorhees <i>Professor of Biology and Biological Engineering; HHMI Freeman Hrabowski Scholar</i> Aline Milach Teixeira <i>Graduate Student in Chemical Engineering</i>
P - Humanities and Social Sciences B125 Baxter 4:30 - 4:50 PM	Simon D. Zernicki-Glover University of California, Berkeley	The funding crisis in human embryonic stem cell research: Historical patterns and the path forward	David Zierler <i>Caltech Heritage Project Director and Senior Strategist</i>
K - Computer Science 113 Spalding Lab 4:10 - 4:30 PM	Caroline Zhang Duke University	Transfer learning for AI-assisted mathematical discovery in combinatorial group theory	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Robert Joseph George <i>Graduate Student in Computing and Mathematical Sciences</i>

A - Biology 127 Baxter 3:10 - 3:30 PM	Evan Z. Zhang Caltech <i>Franz and Anne Nierlich</i> SURF Fellow	An engineered prodrug-activating enzyme for circuit-based cancer therapy	Michael B. Elowitz <i>Roscoe Gilkey Dickinson</i> Professor of Biology and Bioengineering; Investigator, Howard Hughes Medical Institute Andrew Lu Scientist Research in Biology and Biological Engineering Lukas Moeller Graduate Student in Bioengineering
U - Physics 269 Lauritsen 1:40 - 2:00 PM	Jinbo Zhang University of California, Irvine	Timing information for background rejection in a muon missing-momentum search	Bertrand Echenard Research Professor of High Energy Physics David G. Hitlin Professor of Physics
H - Aeronautics 133 Guggenheim 3:10 - 3:30 PM	Junze Zhang Caltech Ingenuity SURF Fellow	Disturbance-compensated reinforcement learning control for trajectory tracking	Soon-Jo Chung Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL
A - Biology 127 Baxter 4:10 - 4:30 PM	Kaifeng Zhang University College London	Investigating sex-specific differences in the squid- <i>Vibrio</i> symbiosis using 5'-RNA sequencing	Margaret J. McFall-Ngai Faculty Associate in Biology and Biological Engineering Drew Honson External Affiliate in Biology
V - Physics 103 Downs 1:40 - 2:00 PM	Yuchi Zhang Middlebury College	Accretion flow and jet evolution during the 2021 outburst of GX 339-4	Fiona A. Harrison Harold A. Rosen Professor of Physics Shina Adegoke Postdoctoral Scholar Research Associate in Physics
Poster Session Hameetman Multipurpose Room 4:00 - 6:00 PM	Yiting Zhao Imperial College London	Exploring new nonreciprocal photonic platforms for controlling thermal radiation	Harry A. Atwater Howard Hughes Professor of Applied Physics and Materials Science Simo Pajovic Postdoctoral Scholar Research Associate in Applied Physics and Materials Science
E - Chemistry 147 Noyes 4:30 - 4:50 PM	Junrui Zheng University of Cambridge Caltech-Cambridge Exchange	Catalytic asymmetric semipinacol-type rearrangement for the construction of all-carbon quaternary stereocenters	Brian M. Stoltz Victor and Elizabeth Atkins Professor of Chemistry; Investigator, Heritage Medical Research Institute Weicheng Xu Graduate Student in Chemistry

G - Aeronautics and
Mechanical Engineering
B122 Gates-Annex
3:10 - 3:30 PM

Jacqueline R. Zhou
Caltech
Carl F. Braun SURF Fellow

Rip-stop metamaterials
inspired by double gyroids

Angkur Shaikeea
*Assistant Professor of
Aerospace; Bren Scholar*
Rosan Naik
Postdoctoral Scholar
*Research Associate in
Aerospace*

H - Aeronautics
133 Guggenheim
3:30 - 3:50 PM

Warren C. Zhou
Caltech
*Kiyo and Eiko Tomiyasu
SURF Scholar*

Trajectory-conditioned
reinforcement learning for
multimodal control of M4
robots

Mory Gharib
*Hans W. Liepmann Professor
of Aeronautics and Medical
Engineering*
Matthew Anderson
Staff Scientist in Aerospace