

Humanities and Social Sciences *AND* Geological and Planetary Sciences

Session

Room:	104 Watson		
1:00 - 1:20 PM	Elizabeth J. Won Mr. and Mrs. Robert C. Loschke SURF Fellow	Framing artificial intelligence in law through science fiction	Jennifer A. Jahner Professor of English
1:20 - 1:40 PM	Aleksandar Marinkovic Marcella Bonsall SURF Fellow	Neural mechanisms of context- guided goal pursuit in humans	John P. O'Doherty Fletcher Jones Professor of Decision Neuroscience Sneha Aenugu Graduate Student in Social Science
1:40 - 2:00 PM	Yuexin Liao Guo/Zhao Family SURF Fellow	Random utility with aggregated alternatives	Kota Saito <i>Professor of Economics</i>
2:00 - 2:20 PM	Kiran K. Pabla Dr. Judith Goodstein SURF Fellow	Data-driven prediction of land use change using multi-modal machine learning	Hannah Druckenmiller Assistant Professor of Economics; William H. Hurt Scholar
2:20 - 2:40 PM	Anna I. Piland Kiyo and Eiko Tomiyasu SURF Scholar	Genomic and morphological insights into novel spirochete morphotypes occurring with sulfurcycling microbial sediment rafts	Jared R. Leadbetter Professor of Environmental Microbiology
2:40 - 3:00 PM	Wendy Wang Holo Family SURF Fellow	Cultivation and analysis of aquatic anaerobic oxalotrophic methanogenic microbial communities	Jared R. Leadbetter Professor of Environmental Microbiology Yuk L. Yung Professor of Planetary Science; Senior Research Scientist, JPL
3:00 - 3:10 PM	BREAK		
3:10 - 3:30 PM	Luis Y. Serrano Laguna Karen and James Cutts SURF Fellow	Remote monitoring of inland water systems and their flux and gas transfer velocities in real-time	Woodward W. Fischer Jean-Lou Chameau Professor of Geobiology John S. Magyar Research Scientist in Geology Bryn Stewart Foster and Coco Stanback Postdoctoral Scholar Research Associate in Environmental Science and Engineering Simon Andren Graduate Student in Geochemistry

3:30 - 3:50 PM	Elinor J. Holland Rossum Family SURF Fellow	Examining the effect of heterotrophic bacteria and viral lysis on the size and flux of diatom marine snow particles in the biological carbon pump	Victoria J. Orphan James Irvine Professor of Environmental Science and Geobiology Jeremy E. Schreier Postdoctoral Scholar Research Associate in Geobiology
3:50 - 4:10 PM	Natalia M. Hernandez Carl F. Braun SURF Fellow/ Caltech-University of Iceland Exchange	Modeling sill deflation and fault slip during caldera collapse at Bárðarbunga, Iceland	Elias Heimisson Assistant Research Professor of Earth Science, University of Iceland Gabriele Benedetti Graduate Student in Biology, University of Iceland
4:10 - 4:30 PM	Stephen W. Goehringer	Using Raman and optical spectroscopy to isolate the spectroscopic signatures of the rare earth elements	George R. Rossman Professor of Mineralogy
4:30 - 4:50 PM	Priscilla Boo University of California, Los Angeles	Development of an artificial urine standard for stable calcium isotope analysis for geochemical applications	François Tissot Professor of Geochemistry; Investigator, Heritage Medical Research Institute Theo J. Tacail Postdoctoral Scholar Research Associate in Geochemistry Rebecca J. Ryan Postdoctoral Scholar Research Associate in Geochemistry
4:50 - 5:10 PM	Polaris C. Hayes Marcella Bonsall SURF Fellow	Tracking the movement of the dust clump in the debris disc of Beta Pictoris	Konstantin Batygin Professor of Planetary Science Yinuo Han Postdoctoral Scholar Research Associate in Planetary Science