

8:10 AM - 8:40
AM



**Keynote
Speaker**
Tiffany Kaspar,
PNNL Materials
Scientist

8:42 AM - 11:42
AM



**Presentations
| Session One**

**EMSL AUDITORIUM (BADGE REQUIRED)
AND ZOOM***

8:42 AM - 8:54 AM James Adams, EED *Creating a Home Assistant add-on*

8:54 AM - 9:06 AM Kaustav Bhattacharjee, EED *Do you trust the model? Interactive Visual Analytics for Trust-Augmented Net Load Forecasting*

9:06 AM - 9:18 AM Ian Meyer, NSD *AI Explainability & The Loss Landscape*

9:18 AM - 9:30 AM Carlos Munoz Salazar

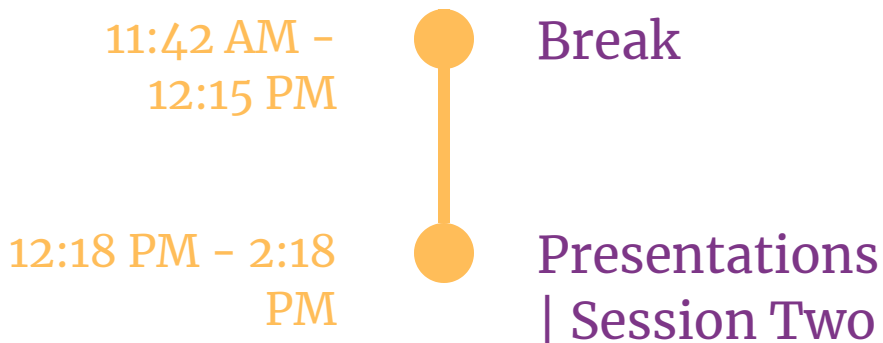
9:30 AM - 9:42 AM Arman Ter-Petrosyan, NSD *Unsupervised Multimodal Graph Analysis to Understand Order-Disorder in Materials*

9:42 AM - 9:54 AM Vladyslav Tsepenok, EED *Technology & Modern Web Development Practices*

9:54 AM - 10:06 AM Andrea Harrison, EBSD - *Developing quality control methods with machine learning for Mass Spectrometry*

10:06 AM - 10:18 AM Jillian Newmyer, EED - *Differentiation of Background and Hanford Anthropogenic Radionuclides*

- 10:18 AM - 10:30 AM** Rudolph Dimura, EBSD *Computational Modeling of Cyanobacteria Utilizing Gene Regulatory Networks*
- 10:30 AM - 10:42 AM** Iliana Alvarez, NSD *Permutation Entropy for Signal Analysis*
- 10:42 AM - 10:54 AM** Melinda Martinez Gonzalez, EBSD *Bioavailability of Pyrogenic Dissolved Organic Matter in an Aquatic Ecosystem*
- 10:54 AM - 11:06 AM** Connor O'Loughlin, EBSD *Fe-OM interactions may act as a mechanism for DOC mobilization following seawater inundation in coastal upland forest soils*
- 11:06 AM - 11:18 AM** Matthew Ley, EED *Color stability of red protein extracts from *P. cruentum* for use as a sustainable food ingredient*
- 11:18 AM - 11:30 AM** Ven Alejandro Chavez, EBSD *Optimization of Microalgal Growth at Air-Medium Equilibrium pH*
- 11:30 AM - 11:42 AM** Carolina Torres Sanchez, EED *Investigating Alkalinity Sources for Marine Carbon Dioxide Removal*



EMSL AUDITORIUM (BADGE REQUIRED)

EMSL 1077/1075 (BADGE REQUIRED)

AND ZOOM

12:18PM - 12:30PM Diana Horangic, NSD *Surface Roughness and Effective Absorptivity for 316 Stainless Steel*

12:30PM - 12:42PM Maria Guzman, EBSD *Biodegradation of plastics by anaerobic hyperthermophilic bacteria*

12:42PM - 12:54PM Dylan Hermosillo, EBSD *Characterizing Molecular Chemodiversity and Microbial Functions of the Rhizosphere*

12:54PM - 1:06PM Pele Scott, EBSD *Understanding Microbial Interactions in Biofilm Formation*

1:06PM - 1:18PM Tatiana Serrano-Zayas, PCSD - *LmrR Scaffold Catalytic Active Site*

1:18PM - 1:30PM Kristen Mast, PCSD *Effects of Iron Doping and UV Irradiation on Gibbsite Dissolution Behavior*

1:30PM - 1:42PM Jackson Kelley, PCSD *Enhancing the Recovery of Rare Earth Elements through Machine Learning-Driven Solubility Prediction*

1:42PM - 1:54PM Luke Hibscher, NSD *Video Authentication Human-Machine Interface*

1:54PM - 2:06PM Samiha Chabane, EBSD *Developing software tools for multidimensional mass spectrometry measurements*

2:06PM - 2:18PM Mayra Diaz Acevedo, PCSD *Exploring Various*

AND ZOOM

12:18PM - 12:30PM Emilia Osti, PCSD *Using Permutation Entropy to Discover Information Content of Radio Signals*

12:30PM - 12:42PM Richie Martinez, OSD *GreyNoise Intelligence Tool Deep Dive*

12:42PM - 12:54PM Marissa Gomez Hernandez, COMM/IT *Group Auditing - Team Message Alert*

12:54PM - 1:06PM Anna Diaz Farias, PCSD - *Unraveling IoT Traffic Patterns: A Graph Analysis Approach*

1:06PM - 1:18PM Marnie Aoyama, NSD *Importance of Supply Chain Risk Management*

1:18PM - 1:30PM Adriana Ramirez, NSD *Food and Agriculture Risk Modeling (FARM)*

1:30PM - 1:42PM Jonathan Lambert, COMM/IT - *Improving Campus Wayfinding at PNNL*

1:42PM - 1:54PM Wyatt Kiff, EED *Crystalline Phase Evolution in High-Level and Low-Activity Nuclear Waste Immobilization*

Classical Shadows for Quantum-Computed Hamiltonian Moments

**Please note, this is a hybrid event and in-person attendees must be badged. Family, friends, and non-staff are invited to join the virtual event.*