2024 AGU Fall Meeting ~ Washington, D.C.
NSF SOARS® Protégés, Alumni, and Staff Schedule
09 - 13 December 2024

Monday, 09 December

When: 08:30 – 12:30 EST
Who: NSF SOARS Alum, Holly Olivarez (Poster)
Title: Internal Climate Variability Modulates Decadal Changes in Ocean Anthropogenic Storage
Session: B11M The Global Carbon Cycle and Its Feedbacks with Anthropogenic Change I
Location: Hall B-C

When: 10:20 – 10:30 EST
Who: NSF SOARS Alum, Shay Gilpin (Oral)
Title: Inaccuracy of the variance evolution associated with discrete covariance propagation
Session: NG12A Advances in Data Assimilation, Data Fusion, Machine Learning, Predictability, and Uncertainty Quantification in the Geosciences II
Location: Marquis 12-13

When: 13:40 – 17:30 EST
Who: NSF SOARS Alum, Marcel Corchado Albelo (Poster)
Title: Spatial Complexity of Flare Ribbon Boundaries
Session: SH13C Flares and Eruptions in the IRIS Era: What Have We Learned, and What's Next?
Location: Hall B-C

When: 16:40 – 16:50 EST
Who: NSF SOARS Alum, Holly Olivarez (Oral)
Title: Solar Radiation Modification and Ocean Biogeochemical Properties
Session: GC14A Advances in Climate Engineering Science III
Location: Salon G

Tuesday, 10 December

When: 08:30 – 12:20 EST
Who: NSF SOARS Alum, Briah Davis (Poster)
Title: The Sensitivity of Boundary Layer Characteristics to Entrainment-Enhanced Buoyant Mixing and Surface Evaporative Fraction
Session: A21D Boundary Layer Processes and Turbulence IV
Location: Hall B-C

When: 10:30 – 10:40 EST
Who: NSF SOARS Protege, Lilian Zhu (Oral)
Title: An Intercomparison of Near Surface Water Vapor Trends Over the Contiguous U.S. between CONUS404, CMIP6 Models, and Observations
Session: GC22B High-Resolution Regional Earth System Modeling: Hydroclimate Variability, Extremes, and Policy Implications II
Location: Salon C
When: 13:40 – 17:30 EST

Who: NSF SOARS Protege, Emily Nigro (Poster)
Title: Investigating Remote Vegetation Impacts on Western US Hydroclimate over the Holocene
Session: PP23D Sedimentary Records of Holocene Climate and Environmental Change II
Location: Hall B-C

Wednesday, 11 December

When: 08:30 – 12:20 EST
Who: NSF SOARS PI Becca Hatheway
Title: Exploring Climate Solutions Through Online Simulations and Games
Session: ED31B Climate Empowerment: Simulations and Gamification of Climate Education I
Location: Hall B-C

When: 08:30 – 12:20 EST
Who: NSF SOARS PI Becca Hatheway
Title: Co-creation of a Museum Exhibit about Climate Change with a Diverse Team of Students, Scientists, Educators, and Museum Professionals
Session: ED31D Empowering a Diverse and Global Earth and Space Science Community Through Education and Public Engagement I
Location: Hall B-C

When: 13:40 – 17:30 EST
Who: NSF SOARS Protege, Zaria Cast (Poster)
Title: A Comprehensive Analysis of Trends and Changes in Precipitation Partitioning over the Arctic Ocean
Session: C33C Climate and Snow: Past, Present, and Future I
Location: Hall B-C

When: 13:40 – 17:30 EST
Who: NSF SOARS Alum, William Manriquez (Poster)
Title: Super-resolution of Sea Surface Height (SSH) Using Machine Learning
Session: OS33C Ocean Sciences
Location: Hall B-C

When: 15:12 – 15:37 EST
Who: NSF SOARS Alum, Shay Gilpin (Oral)
Title: A new perspective on covariance propagation for data assimilation applications
Session: NG33C Turcotte Awardee
Location: Ballroom C

Thursday, 12 December

When: 08:30 – 12:20 EST
Who: NSF SOARS Alum, Ariel Jacobs (Poster)
Title: Investigating Recent Arctic Cyclone Structure and Evolution
Session: A41J Extratropical and High-Latitude Storms, Circulation Dynamics, and Extreme Events in the Rapidly Changing Polar Climate
Location: Hall B-C

When: 13:40 – 17:30 EST
Who: NSF SOARS Protege, Deztynee Bryan
Title: Structural Analysis of Tropical Cyclones by the APAR Observing Simulator: A Comparison Study
Session: A43A Advances in Radar Remote Sensing of Clouds and Precipitation: Observations, Data Processing, and Weather and Water Model Applications II
Location: Hall B-C

When: 14:44 – 14:57 EST
Who: NSF SOARS Alum, Rosimar Rios-Berrios (Invited, Oral)
Title: Multi-Scale Interactions of Tropical Weather Systems in a Hierarchy of Aquaplanet Experiments
Session: A43V High-Resolution Earth System Modeling on Large Supercomputers II
Location: 145 A

Friday, 13 December

When: 08:31 – 08:51 EST
Who: NSF SOARS Alum, Rosimar Rios-Berrios (Invited, Oral)
Title: Modulation of Tropical Cyclogenesis by Convectively Coupled Kelvin Waves
Session: A51H The Madden-Julian Oscillation and Convectively Coupled Waves in the Tropics: Observations, Theory, Modeling, and Prediction I
Location: 204 A-C

When: 13:40 – 17:30 EST
Who: NSF SOARS Alum, Manny Hernandez (Poster)
Title: Managing Catastrophic Wildfire Risk in a Changing Climate within the Insurance Industry
Session: GC53C Advances in Quantifying and Attributing Climate Impacts and Damages to Inform Climate Risk Management and Litigation III
Location: Hall B-C

When: 13:40 – 17:30 EST
Who: NSF SOARS Protege, Celia Kong-Johnson (Poster)
Title: Understanding How Winds May Have Influenced Polynesian Navigation During the Initial Voyages to Hawai‘i Around 1000 CE
Session: OS53B Coastlines and People: Convergence Science Between Coastal Sustainability, Human Dimensions, and Coastal Processes III
Location: Hall B-C

When: 13:40 – 17:30 EST
Who: NSF SOARS Alum, Rebecca Porter (Poster)
Title: Investigating Different RegCM5 Planetary Boundary Layer Parameterizations to Simulate an Atmospheric River Case Study
Session: A53G Atmospheric Rivers: Processes, Impacts, Observations, and Uncertainties III
Location: Hall B-C

When: 16:55 – 17:05 EST
Who: NSF SOARS Alum, Erin Dougherty (Oral)
Title: Future Simulated Changes in Central U.S. Mesoscale Convective System Rainfall and Structure
Session: A541 Understanding and Modeling of Mesoscale and Severe Local Convective Storm Processes II
Location: 201