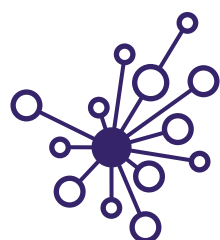


UW Data Science Poster and Networking Session

February 10, 2016 3:00-5:00pm



UNIVERSITY *of* WASHINGTON

eScience Institute

ADVANCING DATA-INTENSIVE DISCOVERY IN ALL FIELDS

Welcome to the **UW Data Science Poster and Networking Session!**

This two-hour event is an opportunity for the University of Washington campus community and regional partners to present their activities and connect with others engaged in data-intensive discovery.

Rapid advances in technology are transforming nearly every field from “data-poor” to “data-rich.” The ability to extract knowledge from this abundance of data is the cornerstone of 21st century discovery. At the University of Washington eScience Institute, our mission is to engage researchers across disciplines in developing and applying advanced computational methods and tools to real world problems in data-intensive discovery.

Visit us at: <http://escience.washington.edu/>



ALFRED P. SLOAN
FOUNDATION



CONTRIBUTED POSTERS

1. Expensive Ride Analysis for King County Metro Paratransit

presenter: Rohan Aras
Data Science for Social Good rohana@uw.edu

2. Cloud-based computational tools for earth science applications

presenter: Anthony Arendt
Applied Physics Lab arendta@uw.edu

3. Visualizing Behavioral Patterns at Multiple Timescales with Storylines

presenter: Dustin Arendt
Pacific Northwest National Laboratory dustin.arendt@pnnl.gov

4. Simulations of SNIa in large sky surveys like LSST

presenter: Rahul Biswas
Astronomy/eScience rbiswas4@gmail.com

5. Classification and Recognition of Fixed Point Networks

presenter: David Blaszk
Applied Mathematics djblazz@gmail.com

6. Predicting Poverty and Wealth from Mobile Phone Metadata

presenter: Joshua Blumenstock
Information School joshblum@uw.edu

7. Where the sidewalk ends

presenter: Nick Bolten
Electrical Engineering nbolten@gmail.com

8. A Robust Approach to Topic Model Interpretation

presenter: Andreu Casas
Political Science acasas2@uw.edu

9. Multi-baryon systems and nuclear forces

presenter: Emmanuel Chang
INT, Physics, UW changezy@uw.edu

10. Building visual analytics tools for enabling human-centered data science

presenter: Nan-Chen Chen
Human-Centered Design & Engineering nanchen@uw.edu

11. Abstraction networks for anatomical knowledge: A method to facilitate authoring, auditing, and querying the Foundational Model of Anatomy ontology

presenter: Melissa Clarkson
Biological Structure mclarkso@uw.edu

12. Mining oceanographic big data: a case study in phytoplankton ecology

presenter: Sophie Clayton
School of Oceanography and eScience Institute sclayton@uw.edu

13. Advancing the biological realism of individual-based spatial simulations for applications to population genetics, conservation biology, and evolutionary ecology.

presenter: Jennifer Day
Biology jmw31@uw.edu

14. Distinguishing RNA-seq laboratories based on experimental bias in RNA-seq data

presenter: Katie Doroschak
Computer science Kdorosch@uw.edu

15. Imputing Missing Data In the ENCODE and Roadmap Epigenomics Projects

presenter: Timothy Durham
Genome Sciences tdurham@uw.edu

16. Notes from the Cloud: Surviving the Data Deluge

presenter: Rob Fatland
IT rob5@uw.edu

17. Geotagged Social Media Reveals Environmental Drivers of Tourism Patterns on Jeju Island, South Korea

presenter: David Fisher
Natural Capital Project - College of the Environment davemfish@gmail.com

18. Killer Asteroids!

presenter: Jes Ford
eScience Institute & Astronomy jesford@uw.edu

19. Streaming variational inference for Bayesian nonparametric mixture models

presenter: Nick Foti
Statistics nfoti@uw.edu

20. It's big data for political science anyway: The .GOV Internet Archive Repository

presenter: Emily Gade
Political Science ekgade@uw.edu

21. Using Yelp Reviews to Characterize Trends in Foodservice Reviews and Reports of Foodborne Illness in the US

presenter: Leah Greenbaum
Evans School of Public Policy and Governance lgreenb@uw.edu

22. Construction of a voxel-based mesoscopic mouse connectome

presenter: Kameron Harris
Applied Math kamdh@uw.edu

23. SciSheets - reinventing spreadsheets for scientists

presenter: Joseph Hellerstein
EScience joseph.hellerstein@gmail.com

24. Analysis in Motion Infrastructure

presenter: Nathan Hilliard
Pacific Northwest National Laboratory nathan.hilliard@pnnl.gov

25. REDPy: Scaling a Repeating Earthquake Detector for Use in Near Real-Time on Pacific Northwest Volcanoes

presenter: Alicia Hotovec-Ellis
Earth and Space Sciences ahotovec@uw.edu

26. GUIDdock - Docker containers with a common graphics interface to address the reproducibility of bioinformatics analyses

presenter: Ling-Hong Hung
Institute of Technology lhhung@uw.edu

27. What Your Username Says About You

presenter: Aaron Jaech
EE ajaech@uw.edu

28. Predicting Adoption of Mobile Money

presenter: Muhammad Khan
Information School razaurrehman@gmail.com

29. Toward Individualized Therapy: Correlation of Mutation Analysis with in vitro High Throughput Drug Sensitivity Testing in New Diagnosis and Relapsed Acute Myeloid Leukemia

presenter: Sina Khankhajeh
Institute of Technology, Tacoma sinak@uw.edu

30. Predicting Discontinuation of Docetaxel Treatment for Metastatic Castration-Resistant Prostate Cancer (mCRPC) with Hill-Climbing and Random Forest

presenter: Daniel Kristiyanto
University of Washington Tacoma danielkr@uw.edu

31. Machine Learning for Flood Prediction in Google Earth Engine

presenter: Catherine Kuh
School of Environmental and Forest Sciences ckuhn@uw.edu

32. Learning the Underlying Social Network from Continuous-Time Pairwise Interaction Data

presenter: Wesley Lee
Statistics wtlee@uw.edu

33. Probabilistic Cause-of-death Assignment using Verbal Autopsies

presenter: Zechang Li
Statistics lizehang@uw.edu

34. Managing Mixed-Mode Survey Projects in REDCap

presenter: Paul Litwin
Fred Hutch plitwin@fredhutch.org

35. Finite Population Inference for Causal Parameters

presenter: Wen Wei Loh
Statistics wloh@uw.edu

36. Inferring Connectivity in Networked Dynamical Systems: Challenges Using Granger Causality

presenter: Bethany Lusch
Applied Mathematics herwaldt@uw.edu

37. Daily bias correction for hydrologic modeling

presenter: Guillaume Mauger
Climate Impacts Group gmauger@uw.edu

38. Light Curve Analysis of Type 1a Supernovae

presenter: Lisa McBride
Physics & Astronomy lisaleemcb@gmail.com

39. Mmani: Scalable Manifold Learning

presenter: James McQueen
Statistics jmcq@uw.edu

40. Systematic Detection of Earthquakes at Mount St. Helens

presenter: Xiaofeng Meng
ESS/eScience Institute xmeng@uw.edu

41. Simulation-Based Hypothesis Testing of Socio-Technical Community Resilience Using Distributed Optimization and Natural Language Processing

presenter: Scott Miles
Human Centered Design and Engineering milesb@uw.edu

42. Secure Machine Learning

presenter: Stacey Newman
Center for Data Science newmsc8@uw.edu

43. Translating and Synthesizing Modeling Data in Design Teams

presenter: Laura Osburn
Communication lbusch@uw.edu

44. Visualizing Scholarly Influence Over Time

presenter: Jason Portenoy
Information School jporten@uw.edu

45. Trial-to-trial, uncertainty-based adjustment of decision boundaries in visual categorization

presenter: Eugenia Prezhdo
Applied Math eugenia.prezhdo@gmail.com

46. School Violence, Public Health and DataQuesting

presenter: Paul Privateer
National School Violence Prevention Initiative paulprivateer@nsspo.org

47. Predictors of permanent housing from HMIS data

presenter: Ariel Rokem
eScience Institute arokem@gmail.com

48. Rainfall and the Smart City: developments in measurement and prediction at the City of Seattle

presenter: James Rufo-Hill
City of Seattle james.rufohill@seattle.gov

49. Automatically Improving Floating Point Accuracy with Herbie

presenter: Alex Sanchez-Stern
Computer Science aschstr@cs.washington.edu

50. Intelligent and Collaborative Question Answering

presenter: Huan Sun
CSE huansun@cs.washington.edu

51. Damage Speaks: Acoustical Monitoring Framework for Structures Subjected to Earthquakes

presenter: Travis Thonstad
Civil and Environmental Engineering thonstat@uw.edu

52. Social Segregation: How Much Do Neighborhoods Matter?

presenter: Ott Toomet
iSchool ottoomet@gmail.com

53. Periodograms for Multiband Astronomical Timeseries

presenter: Jake VanderPlas
eScience jakevdp@uw.edu

54. A class of network models recoverable by spectral clustering

presenter: Yali Wan
Department of Statistics yaliwan@uw.edu

55. A Novel Model for Binary Data Analysis

presenter: Linbo Wang
Biostatistics lbwang@uw.edu

56. Efficient Computation for Modeling Mixed Membership Data

presenter: Y. Samuel Wang
Statistics ysamwang@uw.edu

57. Multimodal Neural Decoding with Natural Data

presenter: Nancy Wang
Computer science and engineering wangnrx@cs.washington.edu

58. Quakes and whales: delivering wired undersea volcano data to scientists and the public

presenter: Michelle Weirathmueller
Oceanography michw@uw.edu

59. Legislative Explorer: Data-driven Discovery of Lawmaking

presenter: John Wilkerson
Political Science jwilker@uw.edu

60. Studying International Migration with Social Media Data

presenter: Emilio Zagheni
Sociology emilioz@uw.edu

61. Analysis in Motion Infrastructure

presenter: Dimitri Zarzhitsky
N/A dimitri.zarzhitsky@pnnl.gov

62. Classifying Rumor Stance in Crisis-Related Social Media Messages

presenter: Li Zeng
Information School lizeng@uw.edu

