Session Speakers Biographies and Abstracts

Keynote Address I (9:30AM–10:30AM)
Chair: Abidemi Adeniji (University of Connecticut)

Mike Tamir

Mike serves as Chief ML Scientist and Head of Machine Learning for SIG, UC Berkeley Data Science faculty, and Director of Phronesis ML Labs. He has led teams of Data Scientists in the bay area as Head of Data Science at Uber ATG, Chief Data Scientist for InterTrust and Takt, Director of Data Science for MetaScale/Sears, and CSO for Galvanize where he founded the galvanizeU-UNH accredited Masters in Data Science degree and oversaw the company's transformation from co-working space to Data Science organization. Mike began his career in academia serving as a mathematics teaching fellow for Columbia University before teaching at the University of Pittsburgh.

TALK TITLE
Evaluating Fake News with In-Context NLP Deep Learning

ABSTRACT
In this talk we explore how in context encoding algorithms starting with the breakthroughs over the past 18 months impact real world use case applications. We will do a deep dive into transformer based architecture and compare performance with prior art for automated "Fake News" evaluation using contemporary deep learning article encoding. We explore how these techniques provide unique interpretability for the FakeNews use case and close with a discussion of extensions of these techniques to time series forecasting and telemetry monitoring.

Keynote Address II (3:00PM–4:00PM)
Chair: Greg Vaughan (Bentley University)

Francesca Dominici

Francesca Dominici is Professor of Biostatistics at the Harvard T.H. Chan School of Public Health and co-Director of the Harvard Data Science Initiative.

Her research focuses on the development of statistical methods for the analysis of large and complex data; she leads several interdisciplinary groups of scientists with the ultimate goal of addressing important questions in environmental health science, climate change, comparative effectiveness research in cancer, and health policy. Currently, Dominici's team uses satellite data and multiple data sources to estimate exposure to air pollution in rural areas

in the US, in India, and in other developing countries. Her studies have directly and routinely impacted air quality policy and led to more stringent ambient air quality standards in the United States.

Dominici was recognized on the Thomson Reuters 2015 Highly Cited Researchers list, ranking in the top 1 percent of scientists cited in her field. In 2017, she was named one of the top 10 Italian women scientists with the largest impact in biomedical sciences across the world. In addition to her research interests and administrative leadership roles, Dominici has demonstrated a career-long commitment to promoting diversity in academia. For her contributions, she has earned the Jane L. Norwood Award for Outstanding Achievement by a Woman in the Statistical Sciences and the Florence Nightingale David Award. Dominici currently chairs the University Committee for the Advancement of Women Faculty at the Harvard T.H. Chan School of Public Health. Prior to Harvard, she was on the faculty of the Johns Hopkins Bloomberg School of Public Health, where she also co-chaired the University Committee on the Status of Women. Dominici has degrees from University La Sapienza and University of Padua.