

Frontiers of Functional Data Analysis:
Challenges and Opportunities in the Era of AI
(19 Aug 2024–13 Sep 2024)

List of Speakers and Talk Titles

Name & Affiliation	Talk Title
Karthik Bharath <i>University of Nottingham, UK</i>	Rolling-Without-Slipping Models for Manifold-Valued Functional Data
Tony Cai <i>University of Pennsylvania, USA</i>	Transfer Learning for Functional Data Analysis
Jinyuan Chang <i>Southwestern University of Finance and Economics, China</i>	On the Modelling and Prediction of High-Dimensional Functional Time Series
Aurore Delaigle <i>The University of Melbourne, Australia</i>	Blockwise Dynamic Selection of Smoothing Parameters in Density Estimation for Streaming Data
Maria Grith <i>Erasmus University Rotterdam, Netherlands</i>	Group Factors in Single Stock Options
Giles Hooker <i>University of Pennsylvania, USA</i>	Functional Data Analysis as Nonparametric ODEs
Tailen Hsing <i>University of Michigan, USA</i>	<i>Mini Lecture</i> A Short Course on Functional Data Analysis
	Estimating the spectral density of a function-valued spatial process
Jian Huang <i>The Hong Kong Polytechnic University, Hong Kong SAR</i>	<i>Mini Lecture</i> Deep Generative Learning Leveraging Pretrained Large Models
	Conditional Stochastic Interpolation for Generative Learning
Hannah Lai <i>National University of Singapore, Singapore</i>	Neural Tangent Kernel in Implied Volatility Forecasting: A Nonlinear Functional Autoregression Approach
Jialiang Li <i>National University of Singapore, Singapore</i>	Robust Model Averaging Prediction of Longitudinal Response with Ultrahigh-dimensional Covariate
James Stephen Marron <i>University of North Carolina, USA</i>	<i>Distinguished Lecture Series in Statistics</i> Data Integration Via Analysis of Subspaces (DIVAS)
Hans-Georg Müller <i>University of California, Davis, USA</i>	Modeling Distribution-Valued Random Trajectories With Optimal Transports

Name & Affiliation	Talk Title
Byeong Uk Park <i>Seoul National University, S.Korea</i>	High-Dimensional Hilbert-Schmidt Linear Regression for Hilbert Manifold Variables
Xinghao Qiao <i>The University of Hong Kong, Hong Kong SAR</i>	Large-Scale Multiple Testing of Cross-Covariance Functions with Applications to Functional Network Models
Eftychia Solea <i>Queen Mary University of London, UK</i>	Robust Inverse Regression for Multivariate Elliptical Functional Data
Jane-Ling Wang <i>University of California, Davis, USA</i>	FDA in the age of AI
Wanjie Wang <i>National University of Singapore, Singapore</i>	Recovery of Time Labels for Noisy Dynamic Data
Fang Yao <i>Peking University, China</i>	FPCA with Diverging Dimensions: From Sparse to Dense Designs
Zhigang Yao <i>National University of Singapore, Singapore</i>	Manifold Learning: An Invitation to Data Science
Jin-Ting Zhang <i>National University of Singapore, Singapore</i>	Two-Sample Tests for Equal Distributions in Separable Metric Spaces: A Unified Semimetric-Based Approach