

Interactions of Statistics and Geometry (ISAG) (14 Feb 2022–18 Feb 2022)



ORGANIZING COMMITTEE

Co-Chairs

Stephan Huckemann
Georg-August-Universität Göttingen

Ezra Miller
Duke University

Zhigang Yao
National University of Singapore

*[Registration](#) is required for this program.

Venue

Virtual: The details and link will be sent to you before the program commences after registration has been processed.



For more information: [Click here](#)

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All times are indicated in **GMT+8**.

For time zones conversion: [Click Here](#)

GMT Time Reference							
Greenwich Mean Time UK (GMT+0)	New York, USA (GMT -5)	Los Angeles, USA (GMT -8)	Austria Denmark Germany (GMT +1)	India (GMT +5.30)	China Singapore (GMT +8)	Korea (GMT +9)	Australia (GMT +11)
1100	0600	0300	1200	1630	1900	2000	2200
1130	0630	0300	1230	1700	1930	2030	2230

Monday, 14 Feb 2022		
Time (GMT +8)	Title	Speaker
1930	Session Chair: Zhigang Yao (National University of Singapore)	
19:30–20:10	Statistics of discrete distributions on manifolds: a journey from the Karl Pearson roulette wheel data to some smart health science data	Kanti Mardia University of Leeds and University of Oxford, UK
20:10–20:20	Break	
20:20–21:00	Distortion, on the average and in expectation	Herbert Edelsbrunner IST Austria, Austria
21:00–21:20	Break	
21:20–22:00	Scaled torus principal component analysis	Steve Marron The University of North Carolina at Chapel Hill, USA
22:00–22:10	Break	
2210	Group Photo (Cameras On)	ZOOM Online
22:10–23:10	Discovering low-dimensional manifolds in high-dimensional data sets	Ingrid Daubechies Duke University, USA
23:10–23:50	Conversation Session	

Tuesday, 15 Feb 2022		
Time (GMT +8)	Title	Speaker
1930	Session Chair: Stephan Huckemann (Georg-August-Universität Göttingen)	
19:30–20:10	The completion of covariance kernels	Victor M. Panaretos École polytechnique fédérale de Lausanne (EPFL), Switzerland
20:10–20:20	Break	
20:20–21:00	Optimal subgroup selection	Richard Samworth Cambridge University, UK
21:00–21:20	Break	
21:20–22:00	Modeling shapes and fields: a sheaf theoretic perspective	Sayan Mukherje Duke University, USA
22:00–22:10	Break	
22:10–23:10	Non-parametric regression for networks	Ian Dryden Florida International University, USA
23:10–23:50	Conversation Session	

Wednesday, 16 Feb 2022		
Time (GMT +8)	Title	Speaker
1900	Session Chair: Zhigang Yao (National University of Singapore)	
19:00–19:40	Stochastic shape analysis and probabilistic geometric statistics	Stefan Sommer University of Copenhagen, Denmark
19:40–19:50	Break	
19:50–20:30	Statistical methods for semi-concentrated data on manifolds	John Kent University of Leeds, UK
20:30–20:50	Break	
20:50–21:30	Spectral learning for high dimensional tensors	Ming Yuan Columbia University, USA
21:30–21:40	Break	
21:40–22:20	Fitting a manifold of large reach to noisy data	Hariharan Narayanan Tata Institute of Fundamental Research, India
22:20–22:30	Break	
22:30–23:10	Testing for uniqueness of estimators	Benjamin Eltzner Max Planck Institute of Multidisciplinary Sciences, Germany
23:10–23:50	Conversation Session	

Thursday, 17 Feb 2022		
Time (GMT +8)	Title	Speaker
1900	Session Chair: Stephan Huckemann (Georg-August-Universität Göttingen)	
19:00–19:40	Score matching for compositional data	Andrew Wood Australian National University, Australia
19:40–19:50	Break	
19:50–20:30	Testing specification of distribution in stochastic frontier analysis	Ming-Yen Cheng Hong Kong Baptist University, China
20:30–20:50	Break	
20:50–21:30	CLT of Fréchet mean and geometry	Do Tran Georg-August-Universität Göttingen, Germany
21:30–21:40	Break	
21:40–22:20	Predicting graphs	Aasa Feragen Technical University of Denmark, Denmark
22:20–22:30	Break	
22:30–23:10	Topologically penalized regression on manifolds	Wolfgang Polonik University of California, Davis, USA
23:10–23:50	Conversation Session	

Friday, 18 Feb 2022		
Time (GMT +8)	Title	Speaker
1900	Session Chair: Ezra Miller (Duke University)	
19:00–19:40	Computing the extended persistent homology transform of binary images	Katharine Turner Australian National University, Australia
19:40–19:50	Break	
19:50–20:30	Strong laws of large numbers for Fréchet mean sets	Christof Schötz Universität Heidelberg, Germany
20:30–20:50	Break	
20:50–21:30	Clustering on the torus by conformal prediction	Sungkyu Jung Seoul National University, Korea
21:30–21:40	Break	
21:40–22:20	CLTs for empirical measures on stratified spaces	Jonathan Mattingly Duke University, USA
22:20–23:00	Conversation Session	