

Sunday 14 August

17:00-21:00 Registration

19:00 Dinner

Monday 15 August

08:00-08:50 Breakfast

08:50-09:00 Opening

09:00-09:45 **Steve Marron**: Joint and individual variation explained

09:45-10:30 **Hans-George Müller**: Random objects: functional data in nonlinear subspaces and Fréchet regression

10:30-11:00 Coffee

11:00-11:45 **Joseph Yukich**: Limit theory for non-linear statistics of random geometric data

11:45-12:30 **Christoph Thäle**: Berry-Esseen bounds for geometric and combinatorial random graphs

12:30-15:00 Lunch break

15:00-15:45 **Anastasios Sidiropoulos**: Metric embeddings with outliers

15:45-16:15 **Vijay Sridhar**: Quasimetric embeddings and their algorithmic applications

16:15-16:45 Coffee

16:45-17:15 **Adam Duncan**: Elastic shape analysis of neuronal tree structures

17:15-17:45 **Matthias Schulte**: Subgraph and cluster counting in the random connection model

18:30 Dinner

20:00-22:00 Get-together

Tuesday 16 August

08:00-09:00 Breakfast

09:00-09:45 **Stephen M. Pizer**: Comparing [object model, statistical methods] pairs via statistical performance

09:45-10:30 **Xavier Pennec**: Barycentric subspace analysis: an extension of PCA to manifolds

10:30-11:00 Coffee

11:00-11:45 **Jonathan Taylor**: Selective inference and the selective sampler

11:45-12:30 **Yu (Ryan) Yue**: Bayesian generalized ANOVA modeling for functional data using INLA

12:30-15:00 Lunch break

15:00-15:30 **Dhandapani Yogeshwaran**: Random d -complexes: persistence diagram and spanning acycles

15:30-16:00 **Line Kühnel**: Regression models for data on manifolds using stochastic processes

16:00-16:30 Coffee

16:30-17:00 **Junpyo Hong**: Classification based on longitudinal shape pairs

18:30 Dinner

Wednesday 17 August

08:00-09:00 Breakfast

09:00-09:45 **Stephan Huckemann**: Nested subspaces asymptotics

09:45-10:30 **Anuj Srivastava**: Elastic functional data analysis (EFDA)

10:30-11:00 Coffee

11:00-11:30 **Xiaoying Tian**: Selective inference with a randomized response

11:30-12:00 **Benjamin Eltzner**: Torus-PCA with application to clustering of RNA structures

12:00-14:00 Lunch break

14:00 Excursion (including dinner)

Thursday 18 August

08:00-09:00 Breakfast

09:00-09:45 **Mathew Penrose**: Limit theorems for point patterns in flat and curves spaces

09:45-10:30 **Christophe Biscio/Jesper Møller**: The accumulative persistence function, a useful functional summary statistic for topological data analysis

10:30-11:00 Coffee

11:00-11:45 **Thomas Hotz**: Comparing extrinsic and intrinsic means on the circle

11:45-12:30 **Aasa Feragen**: Probabilistic tractography as distributions over paths: a Gaussian processes approach

12:30-15:00 Lunch break

15:00-15:30 **Julian Grote**: Gaussian polytopes: a cumulant-based approach

15:30-16:00 **Anders Rønn-Nielsen**: Tail asymptotics and excursion sets for infinitely divisible random fields

16:00-16:30 Coffee

16:30-17:00 **Bo Markussen**: Markov component analysis

19:00 Workshop dinner

Friday 19 August

08:00-09:00 Breakfast

09:00-09:45 **Jane-Ling Wang**: A bridge between high-dimensional and functional data: Application to functional Cox model

09:45-10:30 **Tom Fletcher**: Bayesian statistics on manifolds: beyond MAP

10:30-11:00 Coffee

11:00-11:45 **Stefan Sommer**: Maximum likelihood estimation and stochastic processes on manifolds and Lie groups

11:45-12:30 **Ute Hahn**: Graphical goodness-of-fit and ANOVA tests for functional data

12:30 Lunch and departure