

# 8

# May



**7:00-8:45**

**BREAKFAST**

**09:00-10:30**

**Douglas Nychka**

Short Course I: Spatial Statistical Learning

**10:30-11:00**

**COFFEE BREAK**

**11:00-12:30**

**Raphael Huser**

Short Course II: Advances in Statistical Modeling of Spatial Extremes

**13:00-14:00**

**LUNCH**

**14:30-15:00**

**Francis Zwiers**

Detection and Attribution of Human Influence on Extreme Precipitation Events

**15:00-15:30**

**Lyndsay Shand**

A Multivariate Space-Time Dynamic Model for Characterizing Downstream Impacts of the 1991 Mt Pinatubo Volcanic Eruption

**15:30-16:00**

**Ana Cebrian**

Spatio-Temporal Analysis of the Extent of Extreme Heat Events

**16:00-16:30**

**Steve Sain**

Extremes and Climate Risk Analytics: Some Applications and Some Problems

**16:30-17:00**

**COFFEE BREAK**

**17:00-18:00**

**Roundtable Discussion I**

Compound Extremes in Climate Science

**19:30-21:30**

**DINNER**

# 9

# May



**7:00-9:00**

**9:00-9:30**

**9:30-10:00**

**10:00-10:30**

**10:30-11:00**

**11:00-11:06**

**11:06-11:12**

**11:12-11:18**

**11:18-11:24**

**11:24-11:30**

**11:30-11:36**

**11:36-11:42**

**11:42-11:48**

**11:48-11:54**

**11:54-12:00**

**12:00-12:30**

**13:00-14:30**

**14:30-16:00**

**16:00-16:30**

**16:30-17:30**

**19:30-21:30**

## **BREAKFAST**

### **Abhi Datta**

Combining Machine Learning with Traditional Geospatial Models

### **Andrew Zammit Mangion**

Neural Point Estimation for Fast Optimal Likelihood-Free Inference

### **Mikael Kuusela**

Neural Likelihood Surface Estimation for Intractable Spatial Models

## **COFFEE BREAK**

### **Sweta Rai**

Fast Parameter Estimation of GEV Distribution Using Neural Networks

### **Jordan Richards**

Neural Bayes Estimators for Fast and Efficient Inference with Spatial Peaks-Over-Threshold Models

### **Jonathan Koh**

Predicting Risks of Temperature Extremes using Large-scale Circulation Patterns with r-Pareto Processes

### **Lydia Kakampakou**

Modelling Temporal Changes in Spatial Extremal Dependence via a Conditional Framework

### **Silius Mortensønn Vandeskog**

Efficient and Robust Modelling of High-Dimensional Spatial Conditional Extremes

### **Man Ho Suen**

Aggregated Data Approach with inlabru

### **Xuanjie Shao**

Deep Compositional Models for Nonstationary Extremal Dependence in Space

### **Lambert De Monte**

A Geometric Investigation of Hüsler-Reiss Family of Distributions

### **Maggie Bailey**

Temporal Downscaling for Solar Radiation Using a Diurnal Template Model

### **Zhongwei Zhang**

Extremal Dependence of Stochastic Processes Driven by Exponential Tailed Lévy Noise

## **OPEN FORUM**

## **LUNCH**

## **POSTER PRESENTATIONS**

## **COFFEE BREAK**

### **Roundtable Discussion II**

Modeling Spatial Data and Extremes with Machine Learning

## **DINNER**

# 10 May



**7:00-9:00**

## **BREAKFAST**

**9:00-9:30**

### **Janine Illian**

Realistically Complex Spatial Models-  
Communication and Accesibility

**9:30-10:00**

### **Soumendra Lahiri**

On Locally Stationary Spatial Processes

**10:00-10:30**

### **David Bolin**

Gaussian Random Fields on Compact Metric Graphs

**10:30-11:00**

## **COFFEE BREAK**

**11:00-12:00**

### **Roundtable Discussion III**

Complex Spatial and Spatiotemporal Models

**12:00-12:30**

### **Group photo**

**13:00-14:30**

## **LUNCH**

**14:30-19:30**

## **FREE AFTERNOON**

**19:30-21:30**

## **DINNER**

# 11 May



**7:00-9:00**

## **BREAKFAST**

**9:00-9:30**

**Sebastian Engelke**

Extremal Graphical Models: a Review of Recent Progress

**9:30-10:00**

**Marco Oesting**

Extremes in High Dimensions

**10:00-10:30**

**Peter Braunsteins**

Linking SPDEs and Spatial Extremes

**10:30-11:00**

## **COFFEE BREAK**

**11:00-11:30**

**Simon Brown**

Future Changes in Heatwave Severity, Duration and Frequency due to Climate Change for the Most Populous Cities

**11:30-12:00**

**Michael Wehner**

Some Examples of Climate Science Machine Learning at Berkeley Lab

**12:00-12:30**

**Finn Lindgren**

Statistical Climate Reconstruction Modelling in the EUSTACE Project

**13:00-14:30**

## **LUNCH**

**14:30-15:00**

**Emma Simpson**

High-Dimensional Modeling of Spatial Conditional Extremes Using INLA and Gaussian Markov Random Fields

**15:00-15:30**

**Léo Belzile**

Modelling of Sparse Conditional Spatial Extremes Processes Subject to Left-Censoring

**15:30-16:00**

**Jordan Richards**

High-dimensional Quantile Regression of Spatiotemporal Extreme Wildfires via Partially-Interpretable Neural Networks

**16:00-16:30**

## **COFFEE BREAK**

**16:30-17:00**

**Anna Kiriliouk**

Estimating Probabilities of Multivariate Failure Sets Based on Pairwise Tail Dependence Coefficients

**17:00-17:30**

**Thomas Opitz**

Bridges from Spatial Extreme-value Theory to Classical Geostatistics

**20:30-22:30**

## **DINNER**

# 12 May



**7:00-9:00**

## **BREAKFAST**

**09:00-9:30**

**Amanda Lenzi**

Towards Black-box Parameter Estimation

**9:30-10:00**

**Likun Zhang**

Emulating Complex Climate Models via  
Integrating Variational Autoencoder and Spatial  
Extremes

**10:00-10:30**

**Yao Xie**

Spatiotemporal Point Processes with Deep  
Kernels

**10:30-11:00**

## **COFFEE BREAK**

**11:00**

## **Checkout**

**11:00-12:00**

**Roundtable Discussion IV**

Statistics of Extremes: Where are We Heading?

**12:00-12:10**

**Soutir Bandyopadhyay**

CLOSING

**13:00-14:30**

## **LUNCH**