Hausdorff School
"Algorithmic Data Analysis"

23 to 27 May 2022

organized by
Anne Driemel and Melanie Schmidt

- **Monday, May 23**

09:00 - 09:30	**Self Registration**
09:30 - 09:45	**Organizers** *Opening*
09:45 - 10:30	**Ioannis Emiris (Athena Research Center and University of Athens, Greece)** *Geometric approximation in general dimension I*
10:30 - 11:00	*Coffee break*
11:00 - 11:45	**Ioannis Emiris** *Geometric approximation in general dimension II*
11:45 - 12:30	**Ioannis Emiris** *Geometric approximation in general dimension III*
12:30 - 14:15	*Lunch break*
14:15 - 15:00	**David Mount (University of Maryland, US)** *Analysis of spatial data from the perspective of proximity I*
15:00 - 15:30	*Coffee break (with cake)*
15:30 - 16:15	**David Mount** *Analysis of spatial data from the perspective of proximity II*
16:15 - 17:00	**David Mount** *Analysis of spatial data from the perspective of proximity III*
afterwards	*Reception*

- **Tuesday, May 24**

09:00 - 09:45	**Ruth Urner (York University, Canada)** *Statistical learning theory I*
09:45 - 10:30	**Ruth Urner** *Statistical learning theory II*
10:30 - 11:00	*Coffee break*
11:00 - 11:45	**Ruth Urner** *Statistical learning theory III*
11:45 - 12:30	*Poster Session*
12:30 - 14:15	*Lunch break*
14:15 - 15:00	**Ioannis Emiris** *Geometric approximation in general dimension IV*
15:00 - 15:30	*Coffee break (with cake)*
15:30 - 16:15	**David Mount** *Analysis of spatial data from the perspective of proximity IV*
16:15 - 17:00	**Ruth Urner** *Statistical learning theory IV*

- **Wednesday, May 25**

09:00 - 09:45	**Jeff Phillips (University of Utah, US)** *Sketching geometric data for simple machine learning I*
09:45 - 10:30	**Jeff Phillips** *Sketching geometric data for simple machine learning II*
10:30 - 11:00	*Coffee break*
11:00 - 11:45	**Jeff Phillips** *Sketching geometric data for simple machine learning III*
11:45 - 12:00	*Group photo*
12:00 - 14:00	*Lunch break*
14:00 - 17:00	*Social event: Hike Melbtal* *Meet at Clemens-August Platz*

- **Thursday, May 26**

09:00 - 09:45	**Ken Clarkson (IBM Research, US)** *Matrix sketching techniques for data analysis I*
09:45 - 10:30	**Ken Clarkson** *Matrix sketching techniques for data analysis II*
10:30 - 11:00	*Break*
11:00 - 11:45	**Ken Clarkson** *Matrix sketching techniques for data analysis III*
11:45 - 12:30	*Poster Session*
12:30 - 14:15	*Break*
14:15 - 15:00	**Robert Krauthgamer (Weizmann Institute, Israel)** *Streaming algorithms for vectors and matrices I*
15:00 - 15:30	*Break*
15:30 - 16:15	**Robert Krauthgamer** *Streaming algorithms for vectors and matrices II*
16:15 - 17:00	**Robert Krauthgamer** *Geometric approximation in general dimension III*

- **Friday, May 27**

09:00 - 09:45	**Jeff Phillips** *Sketching geometric data for simple machine learning IV*
09:45 - 10:30	**Ken Clarkson** *Matrix sketching techniques for data analysis IV*
10:30 - 11:00	*Coffee break*
11:00 - 11:45	**Robert Krauthgamer** *Streaming algorithms for vectors and matrices IV*
11:45 - 12:30	*Open Problem Session and Discussion*

All talks take place at the Lipschitz-Saal (room 1.016), Endenicher Allee 60, Bonn. Poster sessions take place in the Plücker room (next to the Lipschitz-Saal).