Statistics Seminar @ MI UWr

June 2026

To accompany the visit of Prof. Olga Vitek (Northeastern University, Boston) and her talk and the Faculty's Seminar on June 23, the UWr Mathematical Institute's Statistics Division warmly invites all interested parties to a series of two seminars dedicated to statistical methods for high-dimensional data and applications of statistical modeling in molecular biology. The seminars will include talks from mass spectrometry proteomics experimentalists. The goal of the seminar is to present research undertaken at the Statistics Division, discuss research directions in computational methods in modern molecular biology, and identify topics for interdisciplinary collaboration.

Program of the seminar

Both meetings will consist of 15-minute presentations and discussions. Below, we provide a list of the presentations, with abstracts given under the schedule.

Part I: Monday, June 22 11:00 am, room 602 (Mathematical Institute, UWr)

1. dr Michał Kos (IM UWr) - "FDR Control via Sorted L-One Penalized Estimator (SLOPE) Method"
2. prof. dr hab. Małgorzata Bogdan (IM UWr) - "From Structured Sparsity to Causal Effects: GSLOPE, PCGLASSO, and SLOPE-Based Doubly Robust Inference"
3. Krystyna Grzesiak (IM UWr) - "Evaluating Imputation Methods"
4. Dominik Nowakowski (Uniwersytet Medyczny w Białymstoku) - "missKnockoffs: A Model-X Knockoff Framework for Variable Selection with Missing Data"

Part II: Wednesday, June 24 11:00 am, room 605 (Mathematical Institute, UWr)

1. Joanna Pokora (IM UWr) - "Adaptive Bayesian SLOPE"
2. Maria Bochenek (MIM UW) - "Network flow methods for alignment and deconvolution of multidimensional spectra"
3. dr Mateusz Staniak (IM UWr) - "Modeling Hydrogen-Deuterium Exchange Mass Spectrometry data via convolutions of exchange probabilities"
4. dr Michał Tracz (W. Biotechnologii UWr) - "Challenges of AP-MS data interpretation in biological relevance driven studies"
5. dr Vanessa Linke (Międzynarodowy Instytut Biologii Molekularnej i Komórkowej) - "What Counts as Significant? Lessons from Applied Proteomics"