Seminar/Talk

Utilizing heterogeneous environments for prediction and estimation

Fanny Yang
ETH Zürich

Host: Locatello Group

In many real-world scenarios, data arise from diverse and complex environments that challenge traditional prediction and estimation methods. This talk explores potential limitations and benefits when trying to integrate heterogeneous data sources to enhance predictive accuracy and treatment effect estimation. In the first part, we discuss the robustness of invariance-based methods when conditions for identifiability are not satisfied and what we can achieve in that setting. In the second part, we show how one can safely use e.g. foundation models trained on external data to achieve efficiency gains. The derived methods in both parts suggest effectiveness on real-world data, and we're hoping to further explore their usefulness in other settings in future collaborations.

Friday, April 18, 2025 11:00am - 12:00pm
Office Bldg West / Ground floor / Heinzel Seminar Room (I21.EG.101)

This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: https://ista.ac.at/en/campus/how-to-get-here/ The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.