Anastasia Kireeva

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EDUCATION

ETH Zurich, PhD Advisors: Prof. Afonso Bandeira, Institute for Operations Research, and Prof. Day Computer Science Research interests: computational complexity, high-dimensional statistics, statistics	,
Technical university of Munich, Master's degree	2019 - 2021
Mathematics in Data Science, GPA 1.1/1 Master's thesis: Phase Retrieval with Demixing Lomonosov Moscow State university, Bachelor's degree	Mar 2019 - Jan 2021

Applied Mathematics and Computer Science, GPA 5.0/5, Bachelor's thesis: Queueing systems with group serving research

PUBLICATIONS

Kireeva, Anastasia and Jean-Christophe Mourrat (2024). "Breakdown of a concavity property of mutual information for non-Gaussian channels". In: *Information and Inference: A Journal of the IMA* 13.2.

Kireeva, Anastasia and Joel A Tropp (2024). "Randomized matrix computations: Themes and variations". In: *arXiv preprint arXiv:2402.17873*.

Fatkhullin, Ilyas, Anas Barakat, Anastasia Kireeva, and Niao He (2023). "Stochastic policy gradient methods: Improved sample complexity for fisher-non-degenerate policies". In: International Conference on Machine Learning. PMLR, pp. 9827–9869.

Awards and scholarships

Apr 2021 - Nov 2021Linde/Munich Data Science Institute Master Scholarship2023Achievement Award for Master Graduate, Women in Math Science

TEACHING

Autumn semester of 2023 Spring semester of 2023 and 2024	Course Coordinator - Mathematics of Data Science Teaching assistant - Mathematics of Signals, Networks, and Learning
Spring semester of 2020 and 2021	Category
Autumn semester of 2022	Teaching assistant - Mathematics of Data Science

EXPERIENCE

TUM, Junior Research Assistant	Dec 2021 - Mar 2022
Chair Applied and Numerical Analysis and Optimization and Data Analysis	
TUM Data innovation lab & Wellabe GmbH & Institute for Biological and Medical Imaging, Helmholtz Zentrum	Apr 2020 - Aug 2020
Defining Corporate Health Classes	

Financial Services Risk Management

EXTRACURRICULAR PROJECTS

Migraine Tracker Bot

Developing and maintaining a Telegram bot for tracking headaches and migraines attacks in an intuitive and minimalistic manner.

Volunteer tutor of olympiad mathematics

Faculty of Mechanics and Mathematics (Moscow State University)

LANGUAGES

Russian Native English Fluent German Intermediate (B1) Link to github project

2016-2017