JULIA KOSTIN

EDUCATION

Technical University of Munich <i>TopMath: Elite Master's and Doctoral Programme in Mathematics (1.06/1.00)</i> Master's thesis: Robustness Guarantees for Low-rank Matrix Recovery with Adversarial Noise	Oct 2020 - Mar 2023
Ludwig Maximilian University of Munich BSc Mathematics (1.01/1.00) Bachelor thesis : Construction of Orthonormal Wavelet Systems (with Prof. Peter Müller) BSc Biology	Oct 2017 - Aug 2020 Oct 2016 - Oct 2017
PROFESSIONAL EXPERIENCE	
Technical University of Munich <i>Research Assistant</i> • Part of the DFG-funded Priority Program Theoretical Foundations of Deep Learning (FoDL) and the Munich Center for Machine Learning (MCML)	Munich, Germany Jul 2022 - Present
Fraunhofer Institute for Integrated Circuits IIS Student Researcher • Worked on neural network models for speech extraction, implemented EEG-driven classifiers of talker identity and speech direction	Erlangen, Germany Nov 2020 - Jun 2022
LMU Mathematical Institute Tutor in Advanced Calculus, Measure Theory and Integration	Munich, Germany Apr 2019 - Aug 2020
Bernstein Center for Computational Neuroscience Student Researcher	Munich, Germany Sep 2017 - Oct 2018

PUBLICATIONS

Preprints

• Julia Kostin, Felix Krahmer, Dominik Stöger. "How robust is randomized blind deconvolution via nuclear norm minimization against adversarial noise?". 2023. [Submitted]

• Mohamed Elminshawi, Julia Kostina, Neeraj Kumar Sharma, and Emanuël Habets. "Attended Talker Decoding Exclusively From Listening-State EEG". 2022. [Submitted]

CONFERENCE TALKS AND POSTERS

KU-LMU-TUM Joint Seminar on Mathematics of Data Science"Robustness Guarantees for Blind Deconvolution via Nuclear Norm Minimization"	Nov 2022
 Approximation and Geometry in High Dimensions 2022 "Robustness Guarantees for Low-rank Matrix Recovery with Adversarial Noise" 	Oct 2022
 Bernstein Conference for Computational Neuroscience 2018 "Differentiating Temporal Aspects of Grid-Cell Activity with Generalized Linear Models" 	Sep 2018
2017 Amgen Scholars Europe Symposium "Exploring Grid Cell Spiking with a Generalized Linear Model" 	Sep 2017
AWARDS	

Apr 2018 - present

Max Weber Scholarship for gifted students

<u>SKILLS</u>

Programming languages	Python, MATLAB, R, C++
Languages	German, English, Russian