Csaba Kiss

PhD Student · Applied Mathematics

Budapest University of Technology (BME), Budapest, Hungary

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Education

Budapest University of Technology and Economics, Department of Stochastics, HSDSLab — *Budapest, Hungary*

PhD in Mathematics — *2024 - present*

- Topic: Integration of Network Science, NLP, and Deep Learning for Advancements in Telecommunications, Healthcare, and the Energy Sector
- Supervisor: Dr. Roland Molontay

Budapest University of Technology and Economics — *Budapest, Hungary*

MSc in Applied Mathematics, specializing in Financial Mathematics — *2022 - 2024*

- Master's thesis: Limiting distributions of interacting particle systems
- Supervisor: Dr. Bálint Vető
- One semester at TU Graz (Austria) with Erasmus+ scholarship, Spring 2023
- Qualification of diploma: excellent with highest honors (DGPA= 4.93/5)

Budapest University of Technology and Economics — *Budapest, Hungary*

BSc in Applied Mathematics, specializing in Stochastics — *2019 - 2022*

- Bachelor's thesis: Modelling the age of the oldest person in the world
- Supervisor: Dr. Bálint Vető
- Qualification of diploma: excellent with highest honors (DGPA= 4.98/5)

Professional Experience

2023-present	**Graduate Teaching Assistant**, Budapest University of Tech. and Eco.
2022-present	**Graduate Research Assistant**, HSDSLab, Department of Stochastics, Budapest University of Tech. and Eco. *Leader: Dr. Roland Molontay* *Research topics: Applications of Machine Learning (Log-anomaly detection, Dynamical Clustering, Network Analysis, Knowledge Graph Analysis)*
2021-2022	**Undergraduate Teaching Assistant**, Budapest University of Tech. and Eco.

Teaching Experience

Fall 2023	**Mathematics A3 for Civil Engineers (Differential equations , Probability Theory)**, Instructor of the practical course	*Department of Stochastics*
Spring 2022, 2024	**Mathematics A2 for Electrical Engineers (Multivariate Calculus)**, Instructor of the practical course	*Department of Analysis*
Fall 2021	**Mathematics A1 for Electrical Engineers (Univariate Calculus, Vector Geometry)**, Instructor of the practical course	*Department of Analysis*

Publications

Published

Kiss, Cs., Németh, L., Vető, B. (2024). *Modelling the age distribution of longevity leaders. Scientific Reports*, **14**(1), 20592. https://doi.org/10.1038/s41598-024-71444-w

Conferences, & Talks

** presenting author*

Kiss, Cs.*, Németh, L., Vető, B. *Modelling the distribution of longevity leaders*. 15th International Seminar on Supercentenarians, Autumn 2023, Paris, France.

Awards, & Grants

2024-2028 **Cooperative Doctoral Programme (EKÖP-KDP)**, Ministry of Culture and Innovation, Hungary

2024 **Outstanding Student of the Faculty Award**, BME Faculty of Natural Sciences

2023 **1st prize at ELTE, conference of Student Reseach Societies (TDK)**, Title: On the asymptotic behavior of geometric q-push TASEP with particle creation model, Supervisor: Dr. Bálint Vető

2023-2024 **New National Excellence Program (ÚNKP)**, Ministry of Culture and Innovation, Hungary

2023 **2nd prize at the national conference of Student Reseach Societies (OTDK)**, Title: Modelling the age of the oldest person in the world, Supervisor: Dr. Bálint Vető

2023 **Bronze Medal at the NSUCRYPTO international competition (second round)** , Team members: Csaba Kiss, Donát Köller, Márton Marits

2022 **2nd prize at BME, conference of Student Reseach Societies (TDK)**, Title: Modelling the age of the oldest person in the world, Supervisor: Dr. Bálint Vető

2022 **Outstanding Student of the Faculty Award**, BME Faculty of Natural Sciences

2022 **Bronze Medal at the NSUCRYPTO international competition (second round)** , Team members: Csaba Kiss, Donát Köller, Márton Marits

2021 **3rd prize at BME, conference of Student Reseach Societies (TDK)**, Title: Synthetic characterization of isometries in the hyperbolic space, Supervisor: Dr. Ákos G. Horváth

Related skills

Languages

Hungarian, native proficieny
English, full working proficiency
German, limited working proficiency

Programming Languages

Python, (scikit-learn, pandas, seaborn, matplotlib, numpy, tensorflow, pytorch, networkx)
Wolfram Language, (Mathematica)
R, .