Máté Baranyi

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date of birth: 1995-02-23

Education

PhD **2018–ongoing**, *Budapest University of Technology and Economics*.
Doctoral School of Mathematics and Computer Science.

Subject: *Mixed graphical models*, supervised by Dr. Marianna Bolla

MSc **2016–2018**, *Budapest University of Technology and Economics*.
MSc in Applied Mathematics, Financial Mathematics specialization, I graduated Summa Cum Laude.

MSc thesis: *Graphical models and some related algorithms*, supervised by Dr. Marianna Bolla

BSc **2013–2016**, *Budapest University of Technology and Economics*.
BSc in Mathematics, Applied Mathematics specialization, I graduated Cum Laude.

BSc thesis: *The separator of a subset of a semigroup*, supervised by Dr. Attila Nagy

Secondary school **2009–2013**, *Esze Tamás Gimnázium*, Mátészalka.
Advanced Final Exam in Mathematics

Experience and Teaching

2018 fall–**ongoing** **Teaching as PhD student**, *Budapest University of Technology and Economics*.
I hold classes for electrical engineering students on probability theory.

2017 fall–2019 spring **Demonstrator**, *Budapest University of Technology and Economics*.
Grading weekly homeworks and administrating the result table for courses hold for mathematics students, called Mathematical Statistics, Statistics I., Markov processes & Martingales.

2017 august–2018 march **Intern**, *Morgan Stanley Budapest*.
Model Risk Management internship in the Institutional Equity Division. Writing and maintaining model review documents for exotic equity-based financial products from model risk perspective.

Publications

2019 **M. Baranyi, R. Molontay**, *Effect of Mathematics Remediation on Academic Achievement – A Regression Discontinuity Approach*, in 2019 International Symposium on Educational Technology (ISET), 2019, pp. 29–33..
doi:10.1109/ISET.2019.00016

2019 **M. Bolla, F. Abdelkhalek, M. Baranyi**, *Graphical models, regression graphs, and recursive linear regression in a unified way*, Acta Scientiarum Mathematicarum, 85 (12) (2019) 9–57..
doi:10.14232/actasm-018-331-4.

Conferences

2018 Dec **11th International Conference of the ERCIM WG on Computational and Methodological Statistics**, *Pisa, Italy*.
Short presentation, titled *Nonparametric regression estimation in chain graph models*

2019 Jul **International Symposium on Educational Technology (ISET)**, *Hradec Kralové, Czechia*.
Short presentation, titled *Effect of Mathematics Remediation on Academic Achievement – A Regression Discontinuity Approach*

Computer and Programming skills

Intermediate knowledge of: **Python**, **R**, **LaTeX**, **MatLab**.

Basic knowledge of: Mathematica, C, C++, Excel, HTML.

University and other projects

2018 summer– **ongoing** **BME FIKP-MI/SC**.
Within the framework of this project we are working on topics related to artificial intelligence and time-series analysis, funded by the Ministry of Human Capacities (EMMI).

2017 fall **Individual Projects II**, *MSc*.
Within the framework of this course I worked on an Educational Data Mining related task supervised by Roland Molontay from BME.

2017 spring **Individual Projects I**, *MSc*.
Within the framework of this course I worked on a Credit Risk Scorecard Development related task supervised by Ildikó Priksz from OTP Bank.

2015 spring– 2015 fall **Programming Projects I and II**, *BSc*.
Within the framework of these courses I worked on a task related to the mathematics of Voting Systems.

Languages

Hungarian native language

English fluent (writing, reading), intermediate (speaking)

German intermediate (writing, reading), basic (speaking)