



Veronika Eclerová

previously Veronika Hajnová

Lecturer

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Current Research Projects

Coupled Josephson junctions in collaboration with Prof. Botha from University of South Africa. Our first paper is dealing with a single ac-driven Josephson junction, but we want to extend the research to study Josephson junction arrays.

Epidemics and season in collaboration with Dr. Lenka Příbylová. We worked on modeling a COVID-19 epidemic outbreak in CZ. I would like to study now a theoretical deterministic model to explain the mechanism of synchronization of epidemic outbreaks with season.

Neurosciences in collaboration with Dr. Lenka Příbylová and her team. We would like to explore the possibility to use dynamical modelling in applied neuroscience, and possibly cooperating with teams from CEITEC at Masaryk University.

Education

2015–2020	Doctoral degree in Mathematics Probability, Statistics and Mathematical Modeling supervisor RNDr. Lenka Příbylová, Ph.D.	Masaryk University
2015	Rigorous proceedings in Mathematics Mathematical Modeling and Numeric Methods	Masaryk University
2013–2015	Master of Science in Mathematics Mathematical Modeling and Numeric Methods passed with honours	Masaryk University
2010–2013	Bachaleor of Science in Mathematics Statistics and Data Analysis passed with honours	Masaryk University

Employment

2020–now	Lecturer, Department of Mathematics and Statistics, Faculty of Science, Masaryk University
2020–2022	Researcher, RECETOX, Faculty of Science, Masaryk University
2018–2020	Specialist, Faculty of Medicine, Masaryk University
2016–2020	Consultant and Data analyst, STH Consulting, s.r.o.
2011–2020	Consultant and Data analyst, Elegis s.r.o.

Awards and special events

2022	Participant of the 10th GYSS 2022 Global Young Scientists Summit
2020	Winner of Hackathon Act in Space, Czech final - team SETOS
2014	Award of the Head of Department of Mathematics and Statistics
2014	Winner of SVOČ in mathematics competition for undergraduates in Czechia and Slovakia

Teaching

Faculty of Science: Mathematical analysis using MAPLE (seminar tutor), Numerical Methods I (seminar tutor), Non-linear dynamics (seminar tutor), Databases in R and datascience (lecturer)

Faculty of Informatics: Linear models (seminar tutor), Numerical Methods (seminar tutor), Statistics for Computer Science (seminar tutor)

Faculty of Medicine: Mathematics seminar for embryologists, Mathematics II - practice for optometrists (seminar tutor)

Internship

- 2021, November: two-week internship, University of Twente, Netherlands, supervisor: prof. Hil Meijer

Supervising thesis

Bachaleor and Master thesis: Supervisor: 3, Consultant: 2, Reader: 13

Activities coordination and science popularization

- an assisting coordinator: Researchers' night 2018, 2019, 2022, SVOČ 2019 (national competition for undergraduate students), Mjuni 2019 (Kids' university), Open Day Masaryk University 2017, SCUDEM IV 2019 (international competition for undergraduate students)
- a lead coordinator for the Department of Mathematics and Statistics: Open Day Masaryk University 2018

Interests

Member of the Scout troop, Ski instructor (APUL C license)