Lenka Přibylová

previously Lenka Baráková

Associate Professor

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Current Research Projects

Epidemics in collaboration with IHIS, Czech Republic, my team worked on modeling a COVID-19 epidemic outbreak in CZ. As the head of the Analytical group of National Institute for Pandemic Control under Ministry of Health, I collaborated on vaccine efficiency computations. My team also studies seasonality in epidemic models.

Ecology in collaboration with Deeptajyoti Sen and Veronika Eclerová, we study seasonality and effect of climate change to seasonally driven population dynamics in ecosystems.

Physics in collaboration with Prof. Botha from University of South Africa, my team study AC-driven Josephson junctions.

Neurosciences in collaboration with my research team, prof. Brázdil's research team from CEITEC at Masaryk University, Institute of Scientific Instruments CAS and prof. Hil Meijer from University of Twente, we explore the possibility to use dynamical modelling in applied neuroscience and epileptology under GAMU Interdisciplinary funding.

Education

2023	Habilitation in Applied Mathematics	Masaryk University
1999–2004	Doctoral degree in Mathematics Mathematical Analysis supervisor Doc. Josef Kalas, CSc.	Masaryk University
2000	Rigorous proceedings in Mathematics Mathematical Analysis	Masaryk University
1994–1999	Master of Science in Mathematics Mathematical Analysis passed with honours	Masaryk University

Employment

2023–now	Associate Professor, Department of Mathematics and Statistics, Faculty of Science, Masaryk University
2006–2023	Assistant Professor, Department of Mathematics and Statistics, Faculty of Science, Masaryk University
2002–2006	Assistant Professor, Department of Mathematics, Faculty of Agriculture, Mendel University of Agriculture and Forestry in Brno

Awards and special events

2022	MUNI Scientist Award
1998	Award of the Head of Department of Mathematics and Statistics

Teaching

Faculty of Science, MU: Theory of bifurcations, chaos and fractals (lecturer), Nonlinear Dynamics and its Applications (lecturer), Deterministic models (lecturer), Algorithmization of Problems and Numerical Calculations (lecturer), Continuous Deterministic Models (seminar tutor), Discrete deterministic models (seminar tutor), Mathematics for cartography (seminar tutor)

Faculty of Informatics, MU: Statistics II (seminar tutor)

Faculty of Medicine: Mathematics I and II for optometrists (seminar tutor)

Mendel University: Mathematics with the support of the Maple (lecturer), Mathematics I and II for optometrists (seminar tutor), Fundamentals of Higher Mathematics (seminar tutor), Engineering Mathematics (seminar tutor)

Internship

- 2002, Lomonosov Moscow State University, Russia

Supervision

- Postdoctoral position leader of dr. Deeptajyoti Sen, India (2022-now) under EUROPE HORIZON MSCA PF funding
- Internship leader (2017) of dr. Volodymyr Rusyn, Ukraine, Erasmus + Academic Staff program.
- Doctoral supervision (2 defended, 1 consultant, 1 active)
- Master theses (14 defended), Bachelor theses (32 defended)

Activities coordination and science popularization

lecturer and coordinator of Researchers' nights, Open Days, Science Festivals, MjUNI, U3V, communication with media, public, politicians

Interests

licensed dancesport coach