



# Jan Ševčík

Doctoral Student

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1 August 1996



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## Research

Synchronization in dynamical systems from the bifurcation theory point of view in collaboration with Dr. Lenka Příbylová and Dr. Veronika Eclerová. We are interested in studying the emergence of very high-frequency and ultra-fast oscillations in EEG signals of patients with focal epilepsy.

## Skills

analytical thinking

MATLAB

statistics and data analysis

visualization

R language

Python

SQL

programming

## Education

2021–now	Doctoral studies in Mathematics Probability, Statistics and Mathematical Modeling supervisor RNDr. Lenka Příbylová, Ph.D.	Masaryk University
2019–2021	Master of Science in Applied Mathematics Modeling and Computations passed with honours	Masaryk University
2016–2019	Bachelor of Science in Mathematics Modeling and Computations	Masaryk University

## Awards

2021	Award of the Head of the Department of Mathematics and Statistics
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## Teaching

Faculty of Science: Probability and statistics I, II (seminar tutor), Applied statistics – exercise (seminar tutor)

Faculty of Informatics: Statistics I (seminar tutor)

## Internship

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

## Activities coordination and science popularization

- Researchers' Night 2022 (assisting coordinator)
- Science Festival 2022 (assisting coordinator)
- Open Day Masaryk University 2021 (assisting coordinator)

## Publications

ŠEVČÍK, Jan and Lenka PŘIBYLOVÁ. Forced van der Pol Oscillator—Synchronization from the Bifurcation Theory Point of View. In Skiadas, C.H., Dimotikalis, Y. *The 14th CHAOS 2021 International Conference*. Cham: Springer, 2022. p. 411-420. ISBN 978-3-030-96963-9. doi:10.1007/978-3-030-96964-6\_29.

PŘIBYLOVÁ, Lenka, Jan ŠEVČÍK and Pavel MORCINEK. Modeling Scenario 1-124-S-WorldPopulation. In *SIMIODE Modeling Scenarios*. New York: Brian Winkel, 2020. 4in SIMIODE.

## Interests

Sports and reading.

(\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]