Štěpán Zapadlo

Masters Student

📋 18 January 2001

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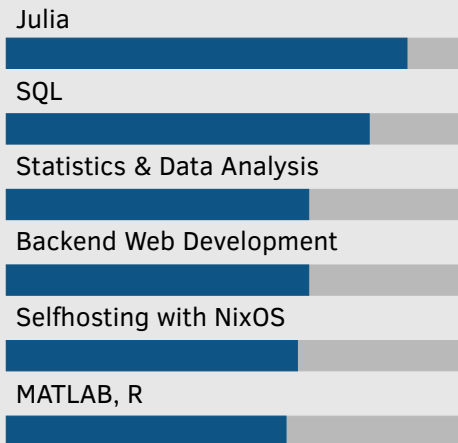🌐 `https://www.researchgate.net/profile/Stepan-Zapadlo`

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Research Interests

Data-driven methods for the discovery of dynamical systems from data capturing real-life phenomena, including, but not limited to, optimization techniques, machine learning and statistical methods. Moreover, I am interested in neuroscience and meteorological models with computations implemented in Julia programming language.

Skills

Julia

SQL

Statistics & Data Analysis

Backend Web Development

Selfhosting with NixOS

MATLAB, R

Education

2023–now	Master of Science in Mathematics Modeling and Computations	Masaryk University
2020-2023	Bachelor of Science in Mathematics Modeling and Computations passed with honours	Masaryk University

Employment

2024–now	Developer Automated quality control of MRI images	MAFIL CEITEC, Masaryk University, Brno
2023–now	Researcher Nonlinear Dynamics Team	Masaryk University, Brno
2021–2024	Backend Web Developer E-commerce platform development	oXyShop, Brno
2020–2021	Fullstack Web Developer Management & planning system for driving school	Freelancer

Publications

DSTLS SINDy Optimizer and regression of Hodgkin-Huxley model onto FitzHugh-Nagumo model. Štěpán Zapadlo, Lenka Přibylová. Poster at Julia & Optimization Days 2023, Paris. doi: 10.13140/RG.2.2.13758.46408

Awards and special events

2023	Award of the Head of Department of Mathematics and Statistics
2019	Participant of the national stage of the Physics Olympiad

Activities coordination and science popularization

assisting coordinator of Equadiff 15, Science Festival 2022 & 2023, MjUNI and other various mathematics popularization activities

Interests

Aquascaping, fantasy and selfhosting.