

MILEN IVANOV

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EXPERIENCE

06.2022 -

MATHEMATICIAN, INSTITUTE OF MATHEMATICS AND INFORMATICS, BULGARIA

I continued research in the field of nonlinear waves.

09.2021 – 05.2022

VISITING ASSISTANT PROFESSOR IN APPLIED MATHEMATICS, BROWN UNIVERSITY, US

I continued my dissertation's research (see below), and I was an instructor for two courses on Ordinary Differential Equations.

09.2017 – 12.2019

TEACHING FELLOW/TEACHING ASSISTANT, BROWN UNIVERSITY, US

As a PhD scholar, I taught and assisted in eight terms of college level mathematics courses (Calculus 1-3, Linear Algebra). As a result, I have vast experience in communicating ideas effectively, organizing courses, elucidating complex problems, and facilitating a collaborative environment.

09.2015 – 06.2016

SOFTWARE ENGINEER AT THE DATA SCIENCE DIVISION, THE HUT GROUP, UK

I built and implemented mathematical and statistical models for anomaly detection on the company's websites. My main tools for data analysis and visualization were Python, SQL, and Bash.

EDUCATION

09.2016 – 05.2021

PHD IN MATHEMATICS, BROWN UNIVERSITY, US

In my PhD dissertation¹, supervised by Prof. Björn Sandstede, I employed differential equations to investigate existence and stability of defects in spirals. The long-term goal of my work is to understand the properties of periodic patterns originating in so-called reaction-diffusion systems.

09.2012 – 06.2015

BSC IN MATHEMATICS, UNIVERSITY OF WARWICK, UK

First class, Honours. Overall degree result: 98.9%. Final year result: 103.1%.

SKILLS

Complex problem solving
Imaginative thinking
Creative lesson planning

Collaboration facilitation
Data analysis (Python, SQL)
Programming: C++, Java, Matlab

¹ <https://repository.library.brown.edu/studio/item/bdr:gut5c42r/>