

SOHEIL S. MOUTABAN

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Profile

I am an independent researcher in the field of Mathematical Physics, with a particular interest in Differential Geometry and proficiency in Computational Mathematics. My studies and research have also equipped me with skills in Data Analysis and Artificial Intelligence, enabling me to apply computational methods to solve problems and model systems in the context of Physics. To support my computational work, I utilize a range of programming languages, at both proficient and intermediate levels, including C++, Python, Matlab, R, Julia, Shell Scripting (Bash), and SQL.”

Employment

Boutique Rugs LLC, Georgia, USA

Support Lead & Data Management

July 2021 - January 2024

- Managing, enhancing, and supervising marketplace metrics through Data Analysis and data-driven process improvements to understand, measure, and improve the performance of the metrics on the marketplaces.

Private Educational Institution, Ankara, Turkey

Mathematics Lecturer

November 2018 - June 2021

- Designing and supervising projects involving mathematical modeling and algorithm development. Working on courses related to Differential Geometry to create, explore, and apply mathematical models, theories, and methods to explain and solve relevant problems through computational frameworks.

Private Educational Institution, Tabriz, Iran

Mathematics Lecturer

January 2015 - October 2018

- Delivering lectures and tutorials on various mathematical topics, ranging from *vectors and matrices* to *optimisation*. This includes preparing and organizing materials, such as lecture notes, presentations, and problem sets. Student support and mentorship, providing academic support and advising on academic and career paths. This also involves supervising undergraduate and postgraduate research projects and theses.

Education

Uludag University, Bursa, Turkey
Department of Electronics and Automation
Mechatronics
October 2023 - Present

UT, Tabriz, Iran
Faculty of Probability, Computer Science and Mathematics
Mathematics

Research Papers

2019 IEEE 9th international Conference on consumer electronics, ICCE, Berlin, Germany
RF, Wireless, and Network Technologies (WNT)

- A novel structure of UWB pulse generator by means of using delay and sum technique for wireless body area network application.

Honours

International Youth Math Challenge
Bronze Honor
December 2022

International Astronomy and Astrophysics Competition
Bronze Honor
June 2023

International Astronomy and Astrophysics Competition
Silver Honor
June 2024