

Masoumeh Fazlali

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masoumeh-fazlali

Stockholm, Sweden



Highlighted Work Experience

- **Tutoring and self-study in Python-programming and Tensorflow in google colab**

ATL Stockholm -SuperProf Sweden

August 2021-now

I have worked as an instructor and done successful student tutoring. I am currently tutoring a student for numerical analysis of Quantum mechanics with MATLAB. In parallel, I am practising my programming skills in python and practicing Tensorflow in Google Colab on Data Science projects.

- **Deep Learning Center**

Internship - Tehran,Iran

April 2021-August 2021

I have done a presentation on a review paper regarding Deep learning. I had another two tasks for debugging, training and execution of the codes: MultiNet and SqueezeSeg; Which are two famous computer vision models for the purpose of road/object classification segmentation using in autonomous driving. Besides, I have been working on databases in Kaggle with SQLite

- **KTH royal institute of Technology**

Postdoctoral Researcher - Stockholm, Sweden

February 2019-March 2021

I have developed my skills in designing with 2 projects: designed structures 3D with CAD for the purpose of fabrication of a 4-point probe tool and 2D structures with Affinity designer for the purpose of additive manufacturing with inkjet printer.

- **University of Gothenburg**

PhD student - Gothenburg, Sweden

June 2013-2017

The analysis of my research during my PhD study was done in C, Python, MATLAB and Origin.

Courses & Online Certification

- Computational Physics - University of Chalmers
January 2015
- SQL for data science - Online,University of California -
October 2021
- Machine learning - Online, Stanford University
August 2020
- Specialization in Deep Learning - Online, Stanford University
October 2020
- Pascal programming - Sharif University of Technology
September 2002
- LabVIEW programming - Chalmers University
September 2016

Skills

- **Software programs,AI frameworks** Origin, LabVIEW, python, MATLAB, C, AutoCAD and Affinity Designer (2 projects), Machine learning and Deep learning (online course), SQL(online course), GoogleColab, Github

Education

- **Ph.D., Applied Physics**
Department of Physics - University of Gothenburg
2013-2017
- **Master of Science , Applied Physics**
Department of Physics - Sharif University of Technology
2006-2008
- **Bachelor of Science , Applied Physics**
Department of Physics - Sharif University of Technology
2001-2005

Language

- English
Professional working proficiency
- Swedish
SFI, level D
- German
Beginner
- Persian
Native or bilingual proficiency
- Arabic
high school proficiency

Hobbies

Dance, gym, movie, listening to music, book, gathering, cooking, art, travel, learning languages

Publication

- Tuning exchange-dominated spin wave using lateral current spread in nanocontact spin-torque oscillator, Journal of Magnetism and Magnetic Material(2019),492,165503. [Link](#)
- Homodyne detected of ferromagnetic resonance of in-plane magnetized nanocontacts, Physical Review B(2016), 93,134427. [Link](#)
- Tunable spin pumping in exchange coupled magnetic trilayers. [arXiv](#)
- Magnetodynamics of pseudo spin valves investigated using co-planar waveguide and spin torque ferromagnetic resonance techniques,thesis 2017, [Link](#)

Programming Experiences

- Programming a part of a game (GateOfIshtar in C)
Jul2018, [Link](#)
- Numerical Analysis for Quantum mechanics problems in MATLAB
October-November 2021 [Link](#)
- Practical codes in Python
October-November 2021 [Link](#)
- debugging Squeezeveg2
July 2021 [Link](#)