ALI DARIJANI

Computational Scientist

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ali-darijani | adarijani | adarijani.github.io/

TECH STACK

PyTorch | TensorFlow | Keras | Optuna | scikit-learn | scikit-image | OpenCV | ImageMagick | Pandas | SciPy | Matplotlib | NumPy | Python | MATLAB | Zsh | Bash | Linux | UNIX | POSIX | SLURM | Cloud Computing | TEX/LATEX/PGF/Tikz

MATH STACK

AI | Deep Learning | Signal/Image Processing | Analysis | Optimization | Numerical Linear Algebra | Probability | Statistics | Fourier Analysis

LANGUAGES

English: Advanced
German: Basic

REFERENCES

Prof. at RWTH
Upon Request
Upon Request

Prof. at SUT
Upon Request
Upon Request

ABOUT ME

half Mathematician half Computer Scientist who has the mathematical knowledge to understand the underlying work of an existing software tool and the programming skill to bend it to his will.

EXPERIENCE

Computational Scientist | RWTH Aachen University

April 2022 - December 2022 | Aachen, Germany

- Visualization of Lattice Based Structures Using OpenGL
- Topology Optimization Using the FEniCS Project
- Correctness Checking of a Paper Using a Computer Algebra System

Computational Scientist | RWTH Aachen University

April 2018 - November 2018 | Aachen, Germany

- Programming Rarefied Gas Flow Problem in C++ on RWTH Compute Cluster

EDUCATION

MSc in Simulation Sciences | RWTH Aachen University

01.10.2019 – 21.12.2023 | Aachen, Germany

- GPA: 1.9

BSc in Mechanical Engineering | Sharif University of Technology

01.10.2010 – 01.10.2016 | Tehran, Iran

- GPA: 2.2

AWARDS AND RECOGNITIONS

- Full Scholarship for BSc Admissions Issued by Sharif University of Technology
- Full Scholarship for MSc Admissions Issued by Ontario Tech University
- Gold Medal in Cloudflight Coding Contest(AI Route, Cologne)

SAMPLE PROJECTS

Master Thesis |

Aachen, Germany

- Deep Unfolding of Wirtinger Flow Type Schemes

Sample C++ Project |

Aachen, Germany

- Multrigird Solver for the 2D Poisson Problem on the Square Domain