

PARSA HARIRI

BIOINFORMATICIAN

ABOUT ME

Currently, I am pursuing a Master's degree in Computational Biology and Bioinformatics at the University of Göttingen, where I have developed advanced computational skills to tackle complex biological challenges.

EDUCATION

Master of Science in Bioinformatics

2022 – current

Georg-August-Universität Göttingen, Germany

Thesis: Smart microscopy: microscopy image segmentation, cell tracking and more

Bachelor of Science in Biotechnology

08/2017 – 10/2022

University of Tehran, Iran

Thesis: Optimization of Laccase enzyme production;

Biotechnology: Biotech is a combination of 2-year scientific courses and 2-year engineering courses.

WORK-EXPERIENCE

internship:

07/2024 – 08/2024

Georg-August-Universität Göttingen, Medical bioinformatics department, Germany

explainable ai for cancer detection with calculating shapely values

Research Assistant:

11/2023 – 04/2024

max planck institute for multidisciplinary sciences, Germany

setting softwares for electron electronic microscopy image analysis

Research Assistant:

01/2023 – 09/2023

max planck institute for dynamics and self-organization, Germany

Making a spiking neural network faster

Teaching Assistant:

04/2023 – 09/2023

Georg-August-Universität Göttingen, Germany

Design and grade homework for “Python programming for data science”

Research Assistant:**01/2020– 07/2021***in Enzyme Technology Lab Tehran University of Medical Sciences, Iran*

Technic: Bicinchoninic Acid Assay

Teaching Assistant:**09/2020 – 12/2021***University of Tehran, Iran*

Design and grade homework for “Python programming” , also the course “Dynamics of biological-systems”

QUALIFICATIONS

Linguistic

English (C1) German (learning A2) Persian (mother tongue)

Skills

Python , C++ , machine learning, deep learning (pytorch),Linux,Cytoscape

PRIZES, AWARDS

Ranked top-1% amongst 560000 participants in the National University Entrance Exam

Ranked top 5 Lift-off-Göttingen (start-Up completion)

SOCIAL ENGAGEMENT

Tutor at TAHA charity**10/2018 – 10/2019**

Teaching biology to underprivileged high school students

[göttingen bioinformaticians](#) seminar**03/2024 – current**

I organized an unofficial gathering of bioinformaticians in the city to share ideas and tools

Licenses

Dynamical Modeling Methods for Systems Biology (Icahn School of Medicine at Mount Sinai)

PCR and DNA extraction (University of Tehran)

Introduction to Complexity (Santa Fe Institute)

Neural Networks and Deep Learning (deeplearning.ai)

Structuring Machine Learning Projects (deeplearning.ai)

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
(deeplearning.ai)

Intermediate R (Datacamp)

RECOMMENDATIONS

Fred, Wolf, Prof. Dr. Professor of Dynamics and Biological Physics at the University of Göttingen

Research Group Leader at the Max Planck Institute for Dynamics and Self-Organization,
fred.wolf@ds.mpg.de

Häring, Matthias, PhD, Physics of Biological Systems (CIDBN) - Postdoc, matthias.haering@ds.mpg.de

Constantin Pape, Prof. Dr. Juniorprofessor at Georg-August University Göttingen and a member of the
Institute of Computer Science and CIDAS, constantin.pape@informatik.uni-goettingen.de