

Fawaz Dabbaghie

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Education

Helmholtz Institute for Pharmaceutical Research (HIPS) **Saarbrücken**
PhD Candidate Bioinformatics *October 2019 – October 2022*
Working on Pangenome analysis and genomic graphs algorithms in Myxobacteria.

Universität des Saarlandes **Saarbrücken**
M.Sc. Bioinformatics *October 2016 – September 2019*
Thesis: „Superbubble and Bubble Chains Detection in Assembly Graphs“ under Prof. Dr. Tobias Marschall
Relevant courses: Algorithms for Sequence Analysis, Artificial Intelligence, Data Mining, C++ Programming, Statistical Learning, Bioinformatics 3.

Hochschule Bonn-Rhein-Sieg **Bonn**
Erasmus Exchange Student *September 2013 – August 2014*
Relevant courses: Bioinformatics, Molecular Biology, Measuring Techniques.

University of Aleppo **Aleppo, Syria**
B.Eng Biotechnology Engineering (Diplom) *September 2009 – August 2015*
5 years engineering degree
Thesis: „RNA interference: Sequence Design and Application“ under Prof. Dr. Raghdah Aslane
Relevant courses: Programming 1 & 2 (VBA, C), Engineering Mathematics, Linear Algebra, Physics, Statistics, Molecular Biology, Genetics 1&2, Bioinformatics.

Teaching

Universität des Saarlandes **Saarbrücken**
TA, under Prof. Dr. Olga Kalinina *March 2020 – October 2020*
Tutoring the “Algorithms for Sequence Analysis” course. Tasks: designing assignments with theory, proofs, and coding questions. Correcting students’ codes in **Python**, **C++** and solutions.

Universität des Saarlandes **Saarbrücken**
Tutor, under Prof. Dr. Olga Kalinina *October 2018 – March 2019*
Tutor for the “Structural Bioinformatics” course. Tasks: Solving programming exercises in **Python** with students and correcting their homework.

Universität des Saarlandes **Saarbrücken**
Tutor, under Prof. Dr. Tobias Marschall *October 2018 – March 2019*
Tutor for the “Introduction to Statistical Learning” course. Tasks: Solving exercises and math proofs with students and answering questions about the course material. Correcting students’ code in **R**.

Work Experience

Center for Bioinformatics **Saarbrücken**
Research Assistant, under Prof. Dr. Tobias Marschall *January 2019 – September 2019*
Maintaining, Refactoring and updating **CLEVER Tool**, a tool used for structural variants detection, written in **C++**.

Max Planck Institute for Informatics **Saarbrücken**
Research Assistant, Department of Computational Biology *November 2016 – May 2018*
Projects I worked on:

- Processing and fixing metadata related to project **DEEP**. Pipeline written in **Python**. Poster published in IHEC Berlin 2017 „A semi-automated pipeline for metadata cleanup,,“.
- Web app for epigenetics data batch effect analysis and noise removal, interactive app for plotting and comparing data. written in **Shiny R**.

CAESAR

Bonn

Research Assistant, Department of Behavior and Brain Organization

November 2015 – October 2016

Computed-Based Analysis of Oculo-Videography movies, and video annotation

Internships

CECAD, University Clinic

Cologne

Research Intern, Prof. Dr. Andreas Beyer

June 2016 – September 2016

Analyzing RNA-seq data, detecting of CircRNA, comparing several algorithms, then using differential expression to analyze the results. Using **Bash** and **R**

Volunteer Work

Deutsch-Syrische Forschungsgesellschaft e.V.

Frankfurt

Co-founder, Member of the Board, General Secretary

November 2016 – January 2019

A non-profit organization aimed to help Syrian and Arab scientist to integrate in the German and European academic world, [DSFG](#)

PEOI

Online

Editor, Translator, Proof reader

August 2015 – December 2018

Translating online course materials in Biology from English to Arabic for the free online education platform [PEOI](#)

In Situ Art Society e.V

Bonn

Assistant

July 2015 – June 2016

Help in organizing concerts and events presented by the society. [In Situ](#)

Syrian Researchers Initiative

Online

Writing, Editing, Translating

January 2014 – May 2017

Mostly writing articles for the classical music section. [List of articles](#)

Scholarships and Awards

Scholarships:

- The Jusoor Syria Hardship Fund 2017, [featured article](#)
- Italian government Scholarships for foreign and IRE students (Winter Semester 2015) (Declined)
- Erasmus Exchange Student, (Winter semester 2013/14, Summer semester 2014)
- International Distinguished Young Leaders Scholarships. Full scholarship at Monmouth College. Monmouth, Illinois. USA (Fall semester 2013) (Declined)

Awards: Special Prize Winner at Piano Bridges Competition in St Petersburg, Russia 2012. [Link](#)

Skills

Computer Skills.....

Programming Languages: Python, R, Shiny R, C, C++, bash

Other: HPC systems, Snakemake workflow language, \LaTeX

Language Skills.....

Arabic: Mother tongue

English: Fluent (TOEFL iBT score 103)

German: Intermediate proficiency

French: Lower Intermediate

Japanese: Lower Intermediate

Personal Hobbies, Projects.....

Hobbies: Classically trained pianist, participated in several recitals in Aleppo and Bonn.

Personal Musical Project: Collecting, archiving, and performing music pieces written by Syrian composers.

[Link to personal page](#)