



Rashid Al-Abri

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Stanford University

B.Sc. in Computer Science · (4.0 GPA)

Expected June 2023

EXPERIENCE

Gürsoy Lab, New York Genome Center

June 2022 – Present

Bioinformatics Summer Intern

- Conducted and presented a literature review on repeat DNA genotyping algorithms to identify gaps in research and opportunities to improve the status quo
- Innovated a computational method to estimate the length of long repeat DNA from short-read sequencing data and implemented the tool in the Rust language to undergo testing and validation

Snyder Lab, Stanford Medicine

Aug 2020 – Present

Research Assistant

- Contributed significantly to the identification of >100 recurrent repeat expansions in cancer
- Engineered a novel normalization tool to accurately identify repeat DNA expansions from WGS data in over 4000 cancer genomes, improving the independent validation rate from 25% to 60%
- Benchmarked normalization tool using simulated data and presented results to PI & lab members
- Listed as a 2nd co-author in a *Nature* article (under review) titled “A genome-wide atlas of recurrent repeat expansions in human cancer”

Stanford Bio-X

Jun 2021 – Aug 2021

Undergraduate Fellow

- Supported the development of a novel polymorphic repeat DNA catalog by designing and deploying a cloud-based pipeline to identify polymorphic repeat loci in the 1000 Genomes dataset
 - Collaborated with industry mentors at Illumina to sync research & development efforts
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SKILLS & COURSEWORK

- Proficient in using Unix systems, Git, HPC clusters, and standard bioinformatic tools for research
 - Proficient in Bash and Python scripting languages for data analysis and visualization
 - Comfortable with low-level systems programming using the C, C++ and Rust languages
 - Experience writing reproducible analyses using Snakemake
 - Fluent in English & Modern Standard Arabic
 - Intensive coursework in Biology, Cloud Computing, Algorithms & Systems
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AWARDS

Takatuf International Scholarship · \$600,000

Sept 2017 – Jun 2023

Bio-X Fellowship · \$7,000

Jun 2021

1st Place, Oman Arab Bank Innovation Hackathon · \$7,000

Apr 2021