Adham Mandour

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🏠Denmark (Residence permit)

Summary

I am a molecular biologist turned bioinformatician after a quick and resolute side-step in philosophy inbetweeen transitions. I have a strong personal drive to gain a fundamental understanding of how things work and why, especially big ideas, and I truly believe that no problem is too complex to solve. I am deeply independent and self-motivated and I value those qualities about myself above all else.

Education

Degree:	**Msc. Bioinformatics, 2016 - 2018**
University:	**University of Copenhagen, Copenhagen, Denmark**
Thesis:	"The Human Virome In The 1000 Genomes Project"
Advisor(s):	Dr. Anders Albrechtsen
Degree:	BSc. Biology, 2008 - 2013
University:	The American University in Cairo, Cairo, Egypt
Accomplishments:	Dean's list: Fall 2008, Fall 2011-Spring 2012
Thesis:	"Neuroscience and Economics in Moral Philosophy and The Motivation of Altruism Through Fairness."
Advisor(s):	Dr.Edwin Cruz-Rivera, Dr.Matthew Crippen
Additional Courses:	Philosophical Masterpieces - Being and Time (2015 Class Audit)

Skills

Programming Skills:	**Python, R, C++, JavaScript (d3), bash, HTML/CSS**
Analytical:	Statistical Analysis/Data Science
General:	Proficient in LaTex

Projects

Name:	The Human Virome In The 1000 Genomes Project⇗
Task:	Explore unmapped reads from the 1000 genomes project to build a profile of the human virome
Personal Goals:	Rehashing two years worth of courses in the form of:

- Handling big data on a strict server computational capacity via parallelization
- Increasing my proficiency in bash, LaTex and R
- Increasing my understanding of NGS data and its traditional representation (SAM manipulation)
- Gaining a theoretical understanding of the burrows-wheeler(BWA) transformation algorithm (purely indulgent)

Name: Task: Personal Goals:	Updating ANGSD ↗ Update ANGSD to perform additional summary statistics on NGS data Learning C++ from scratch in 2 months or less including: • Pointers and proper garbage collection • Object oriented programming including classes, structs and their methods

Languages

Mother Tongue: English Proficiency:	Arabic Fluent in written and spoken

Additional

Current Interests:	In my spare time, I pick up a book in advanced mathematics (Abstract linear algebra currently, real analysis previously) or figure out some way to be a better programmer; currently learning assembly language through "Computer Systems: A Programmer's Perspective. When I am not doing that, I try, and fail to be better at drawing or I pick up a good novel instead (Terry Pratchett is falsely labeled as fluff by some people. Very underrated.)

References

Name & Position:	Available on request • Edwin-Cruz Rivera, PhD • Matthew Crippen, PhD • Anders Albrechtsen, PhD