Mohamed Abuelanin

Computer Science PhD Student specializing in Bioinformatics

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- mr-eyes.com

SKILLS

C++ - Python - Rust - Bash - Linux - CI Docker - FullStack - Git

VOLUNTEER EXPERIENCE

Nile University's Data Center
(November 2017 - Present)

System Admin

Built an HCP from scratch (H/W & S/W), firewall, network configuration, and VM accounts distributions.

Egyptian Federation for Scouts
(June 2009 - September 2012)

Scout Leader

Organized camps, trained scout troops, and led meetings.

PUBLICATIONS

Insilico Codon Bias Correction for Transgenic Biological Protein Sequences for Vaccine Production
(October 2020)

ieeexplore

REFERENCES

C. Titus Brown

Principal Investigator

Professor. Department of Population Health and Reproduction, School of Veterinary Medicine, University of California, Davis, CA, USA

- ctbrown@ucdavis.edu

Tamer A. Mansour

Co PI

Assistant Researcher. Department of Population Health and Reproduction, School of Veterinary Medicine, University of California, Davis, CA, USA

- tahmed@ucdavis.edu

I am a 3rd-year Computer Science Ph.D. student at UC Davis and work as a Graduate Student Researcher at the Lab for Data-Intensive Biology (DIB-Lab). My research focuses on developing efficient software to transform, analyze, and use exponentially growing biological data.

EDUCATION

University of California, Davis
(September 2020 - Present)

Ph.D., Computer Science

Nile University
(March 2017 - February 2019)

M.Sc., Computer Science

Higher Technological Institute (HTI)
(September 2011 - January 2017)

B.Sc., Biomedical Engineering

WORK EXPERIENCE

University of California, Davis
(September 2020 - Present)

Graduate Student Researcher

Titus Brown's Lab (DIB-LAB) - Department of Population Health and Reproduction, School of Veterinary Medicine.

- http://ivory.idyll.org/lab/members.html

Nile University
(March 2019 - August 2020)

Teaching Assistant

Grad-level courses: ML & statistical analysis - Advanced Big Data, Next Generation Sequencing.

Nile University
(March 2017 - February 2019)

Research Assistant

Bioinformatics Research Group. CIS, Nile University, Giza, Egypt.

Artronix
(January 2013 - February 2017)

R&D Engineer

Develop engineering solutions using embedded systems and Fullstack.

PROJECTS

kSpider

kSpider is a fast and efficient C++ CLI program that performs dataset clustering based on the kmer content.

- https://github.com/dib-lab/kSpider

kProcessor

kProcessor is a C++ API with a Python interface that enables easy handling of sequence k-mer content.

- https://github.com/dib-lab/kProcessor

De novo RNA-SEQ

Snakemake workflow to perform de novo transcriptome assembly, DGE, and annotation.

- https://github.com/mr-eyes/denovo-rnaseq

DB Retina

A computationally efficient pipeline for database integration in an overlap-based super network

- https://github.com/DBRetina/DBRetina