

Noah Newberger Nsangou

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EDUCATION

Williams College, Williamstown, MA

June 2020

Bachelors of Arts: Computer Science, Cumulative GPA: 3.2

Relevant Coursework:

Computer Science: Diving into the Deluge of Data (Python), Data Structures & Advanced Programming (Java), Computer Organization (C), Algorithms, App. Development with Functional Programming (Clojure), Distributed Systems (C)

Math & Statistics: Linear Algebra, Computational Linear Algebra, Regression & Forecasting, Data Mining & Statistical Learning

Biology: The Cell, The Organism, Genetics, Computational Biology

Brookline High School, Brookline, MA

June 2016

African American and Latino Scholars Highest GPA Award; Mock Trial Captain; Varsity Soccer & Sailing

SKILLS

Python • Statistical Modelling with R • DataViz • Flask Web Microframework • WGS Data • Local Ancestry Inference

PROFESSIONAL EXPERIENCE

Williams College – *Student Technology Consultant*

Sept 2018 - Present

- Provide troubleshooting and tech support for students, staff and faculty of the College

Williams College – *Summer Research Assistant in Biostatistics* (Professor Anna Plantinga)

Summer 2019

- Worked to develop and refine methods of ordination plot adjustment for covariate effects in microbiome studies
- Assisted in development of statistical data matrix manipulations for plot adjustment
- Translated statistical algorithmic concepts into R scripts
- Developed a simulation study framework for plot adjustment algorithm testing
- Analyzed adjustment algorithm quantitative performance
- Initiated ongoing development of an R package encapsulating the plot adjustment algorithm
- Produced and presented a research poster to Williams faculty and students (100+)

Boston Children's Hospital - *Summer Intern, Computational Health Informatics Program (CHIP)*

Summers 2017, 2018

- Collaborated with a small research team led by Dr. Sek Won Kong, MD to implement and develop research pursuits
- Improved data-presentation functionalities in gNOME Analysis web-app using Javascript and HTML
- Prototyped new WGS Analysis report web-app with Python and Flask Microframework
- Presented on gNOME web report improvements and redesign to CHIP/Harvard faculty
- Assisted in design of research pursuit pertaining to Local Ancestry and its effects on disease
- Developed and improved Local Ancestry Inference (LAI) analysis pipeline with bash scripting and SHAPEIT and RFMix LAI packages

Colaberry Inc, Boston, MA – *Kids Club Program Manager*

Feb 2016 – June 2016

- Led instruction of Google CS First curriculum to classes of children aged 9-14 at Roxbury Community College
- Engaged parent participation in their children's computer science education
- Conducted training session for club hosts in Dallas, TX

Boston Children's Hospital – *Research Assistant Intern, General Pediatrics*

Summers 2014, 2015

- Transcribed patient interviews in diagnostic research project designed to improve HPV vaccination rates
- Mined patient data in Powerchart and EPIC
- Administered and managed tablet surveys for inpatient parents and guardians

LEADERSHIP AND ACTIVITIES

Williams Purple Rain – A Cappella Co-President

Sept 2019 – Present

- Lead Williams College's only Soul and RnB A Cappella group
- Manage logistics and interpersonal dynamics of a fast-growing, diverse group of people
- Empower individuals from underrepresented groups to participate and excel in the Williams music community

Williams College Musicians Alliance – Co-President

Sept 2019 – Present

- Foster community for musicians of all backgrounds
- Coordinate popular campus-wide open-mic events