

# Robert A. Petit III, PhD

## Senior Data Analyst

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## OBJECTIVE

Proficient in bacterial genome analysis with a combined 17 years of extensive software development, bioinformatic expertise, and recent doctoral training. Seeking a position to apply my skillset and help advance the Public Health and Bacterial Genomics fields.

## PROFESSIONAL EXPERIENCE

### Senior Data Analyst

Emory University, Atlanta, GA, 2018–Present

Worked as a bioinformatic analyst, developing protocols to streamline the analysis of bacterial sequencing projects. Also, maintained multiple Linux servers critical to the group.

- Implemented projects using Amazon Web Services cloud platform

### Information Analyst III

Emory University, Atlanta, GA, 2011–2013

Worked as a bioinformatic analyst, developing protocols to streamline the analysis of bacterial sequencing projects. Maintained multiple Unix servers critical to the group.

- Collaborations with Centers for Disease Control, Georgia Aquarium and University of Chicago
- Implemented projects using Amazon Web Services cloud platform

### Network and Systems Administrator

Total Technology Integrators, Valdosta, GA, 2005–2010

Oversaw the recommendation, installation, and ongoing maintenance of IT related hardware and software for local companies.

- Developed software to quickly identify points of failure
- Designed diagnostic protocols for efficient repairs and improved client satisfaction

### Software Developer and Technician

Charleston Credit Adjustment Bureau, Charleston, SC, 2004–2005

Developed software to efficiently process confidential financial and personal information. I also maintained an IT Technician role within the company, providing computer related repairs to more than 50 employees.

## EDUCATION

**2018, Doctor of Philosophy** in Population Biology, Ecology and Evolution  
Emory University, Atlanta, GA

**2011, Master of Science** in Bioinformatics  
Georgia Institute of Technology, Atlanta, GA

**2010, Bachelor of Science** in Biology  
Valdosta State University, Valdosta, GA

## HIGHLIGHTS

Developed Bactopia ([bactopia.github.io](http://bactopia.github.io)) workflow for large scale bacterial genomics

Developed Staphopia ([staphopia.emory.edu](http://staphopia.emory.edu)) platform for *Staphylococcus aureus* genomics

Involved in **18 Peer-Reviewed Academic Publications**

Awarded 4 **Amazon Web Services Education Grants** totaling \$37,500

Awarded **Cancer Genomics Cloud Collaborative Grant** totaling \$15,000

Active member of global Microbial Bioinformatician group

Designed and taught graduate level programming course

## SKILLS

Microbial Public Health Informatics

High-Throughput Analysis Using Cloud Platforms

Reproducible Research

Python and R Programming

Bioinformatic Workflow Management

Biological Data Curation and Distribution

Open-Source Development (GitHub)

Software Versioning (git)

NCBI Data Submission