

Gary K. Vestal

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EDUCATION

Doctor of Philosophy in Computer Science and Informatics

Atlanta, GA

Emory University

August 2018- Present

- **Relevant Skills:** Python, Network Science, AI, Machine Learning, Epidemiology, Quantum Physics
- **Cumulative GPA: 3.67**

Bachelor of Science in Physics; Minor in Computer Science

Clemson, SC

Clemson University

August 2013- December 2017

- Calhoun Honors College
- **Relevant Skills:** LaTeX, Java, C, C++, Lua, Netlogo, GML, Arduino, MATLAB, Adobe Premiere, German
- **Cumulative GPA: 3.94**

WORK & RESEARCH EXPERIENCE

Network Epidemiology

Atlanta, GA

Emory Simbiosys Lab

June 2019 –Present

- Recreating full contagion network from partial data
- Analyzing individual's behaviors to reveal changes in social networks during outbreaks

Computational Physics Intern

Oak Ridge, TN

Oak Ridge National Lab

January 2015 –August 2016

- Researched molecular self-assembly in two on-site internships for 40 hours per week
- Created an agent-based model for simulating molecular self-assembly
- Modeled sequence-controlled polymer synthesis on a substrate
- Modeled the formation of bacterial microcompartment proteins
- Programmed model that outperformed previous approach by two orders of magnitude in speed
- Collaborated with Clemson professor to continue research in off-site internship
- Continued research 4-8 hours per week while attending classes in Clemson
- Presented findings in three poster presentations in 2015 and 2016

Product Management Intern

Charlotte, NC

TIAA

June 2018 –August 2018

- Innovated TIAA's digital experience for its customers and employees for 40 hours per week
- Tested software updates for TIAA's PlanFocus mobile app
- Designed SMS-based system for opening new IRA's

Independent Game Developer

Self-employed

August 2013-Present

- Created "V1CTR" for the iPad and published on iTunes.

Baritone Player

Kingsport, TN; Clemson, SC

Dobyns-Bennett High School, Clemson University

August 2006-Present

- Performed in Timothy Hurlburt's Clemson University Concert Band 3 hours per week
- Performed in Lafe Cooks' Dobbyn's-Bennett High School Wind Symphony 6 hours per week

AWARDS

Oak Ridge Student Poster Session Best Poster Award

August 2016

- Presented research on modeling bacterial microcompartments

Astronaut Scholarship Finalist

March 2016

- One of two finalists chosen at college level

Clemson Outstanding Junior Award in the Sciences

April 2016

- Chosen at college level based on academic and research achievements

Clemson L.D. Huff Junior Award

Spring 2016

- Chosen at department level based on academics and faculty recommendation