

Sean Carter

Curriculum Vitae

5450 20th Avenue North, 33710, St. Petersburg, FL

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Education

Master of Arts, Mathematical Statistics, University of South Florida

Expected Completion Date: May, 2019

Major coursework: Mathematical Statistics, Advanced Linear Algebra, Statistical Methods, Non-Parametric Statistics, Probability Theory, Reliability Data Analysis

Bachelors, University of South Florida

Completion date: May, 2017

Major: Cell and Molecular Biology, **Minor:** Mathematics

- **Major coursework:**

- Organic Chemistry, Biochemistry, General Physiology, Cell Biology, Cell Metabolism, Genetics, Molecular Biology of the Cell, Advanced Techniques in Genetics and Cell Biology, and associated lab work

- **Minor Coursework:**

- Calculus (1-3), Bridge to Abstract Mathematics, Linear Algebra, Theory of Computation, Introduction to Combinatorics, Intermediate Analysis

Associates, St Petersburg College

Degree program: General Education

Completion date: March, 2014

Research Experience, Grants, and Presentations

Master's Thesis: Examined an alternative resampling method for ensemble machine learning methods, especially for training classification models on datasets containing one or more classes with few observations to train on. Research conducted under the supervision of Dr. Lu in the Statistics department at USF.

Recipient of American Society of Quality Student Grant: Grant awarded to attend the 2018 Fall Technical Conference in West Palm Beach.

Undergraduate Research: Research conducted in Dr. Brian Space's computational physical chemistry lab. The group's research was directed towards understanding the mechanisms underlying metal-organic-frameworks (MOFs), a novel material with applications in alternative energy sources, chemical storage, and more. Research methods were focused on conducting computational simulations using Monte Carlo and Molecular Dynamics techniques.

Presentation at Raymond N. Castle Conference: Poster, titled *A Hybrid Simulation Method in LAMMPS with Application to MOF-5*, presented at Raymond N. Castle Conference 14 at the University of South Florida, co-authored with Adam Hogan.

Work & Teaching Experience

Mathematics and Statistics Tutor, Hillsborough Community College

06/2018 – Present

Biological Lab Technician, Hillsborough Community College

06/2017 – 06/2018

America Counts Tutor, St. Petersburg College

02/2013 – 05/2014

Tutor.com Mathematics Tutor,

10/2013 – 11/2014

Suncoast Boys and Girls Club Group Leader

06/2013 – 08/2013

Other Extra-Curricular Activities

Brazilian Jiu Jitsu Club Officer: Vice president and financial officer for the BJJ club for over three years. Responsibilities and accomplishments include:

- Conducting club practices in a safe and timely manner, growing membership by hundreds of students over my tenure and raising regular attendance at practices from 3-8 students to an average of 15-20 students at each practice
- Organizing club attendance to local tournaments, managing payment and transportation to and from the tournament and ensuring competitors are safe and prepared
- Attending officer training and workshops, as well as carrying out administrative duties such as budget proposals and regular progress reports.

Biology Club Officer: Acted as the event coordinator for the biology club for two years. Responsibilities included:

- Working with other club officers to organize club meetings twice a month, including purchasing and setting up supplies, acquiring presenters, and inform the public and club members of the dates, times, and locations of such meetings
- Organizing events for club members, such as hikes, kayaking trips, on-campus events, volunteering events and trips to local relevant attractions such as museums
- Conducting weekly office hours and carrying out administrative tasks to keep the club functioning as a campus student organization