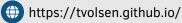


# **Trevor Olsen**

Ph.D.

tvolsenmath@gmail.com



## About Me -

Knowledgeable student looking to utilize and develop existing skill set in a Data Science or Machine Learning position. Respected leader with years of teaching experience at numerous levels. Proven problem solving abilities displayed by an extensive research track record. Highly motivated, concurrently pursued two doctoral degrees.

# Skills

- Python
  - + Scikit-learn
  - + Matplotlib
  - + Pandas
  - Numpy
  - SageMath
  - + XGBoost (in progress)
  - + PyTorch (in progress)
- Mathematics
  - Graph Theory
  - Combinatorics
  - Probability
  - + Algebra
- Computer Science
  - + Theoretical Robotics
  - + Algorithms
  - Machine Learning
  - Computational Mathematics

## **Working Experience**

2016 - 2021 **Graduate Assistant** University of South Carolina Conducted research, instructed 8 courses, graded for 10 courses 2015 – 2016 **Adjunct Faculty** Miami Dade College Instructed 8 courses 2014 – 2015 **College Athlete Tutor** University of Miami Provided additional academic support for football players 2014 – 2015 **Mathematics Tutor** Palm Beach Atlantic University Provided additional academic support for undergraduate students

**Graduate Education** 2018 – 2021 Ph.D. in Computer Science University of South Carolina Dissertation: Sampling and Robustness in Multi-Robot Visibility-Based Pursuit-Evasion Advisor: Jason O'Kane GPA: 3.8 2016 – 2020 Ph.D. in Mathematics University of South Carolina Dissertation: Distance Related Graph Invariants in Triangulations and Quadrangulations of the Sphere Advisors: Éva Czabarka and László Székely GPA: 3.6 2018 - 2021 M.S. in Computer Science University of South Carolina GPA: 3.8 University of Miami 2016 – 2020 M.A. in Mathematics GPA: 3.3

#### **Publications**

2022	<b>Proximity in Triangulations and Quadrangulations</b> <i>Electronic Journal of Graph Theory and Applications</i>
2022	Robust-by-Design Plans for Multi-Robot Visibility-Based Pursuit- Evasion International Conference on Robotics and Automation (ICRA)
2021	Rapid Recovery from Robot Failures in Multi-Robot Visibility-Based Pursuit-Evasion International Conference on Intelligent Robots and Systems (IROS)
2021	Clinical Characteristics of Suspected COVID-19 in Pediatric Patients International Journal of Critical Care and Emergency Medicine
2021	A Visibility Roadmap Sampling Approach for a Multi-Robot Visibility-Based Pursuit-Evasion Problem International Conference on Robotics and Automation (ICRA)
2021	Wiener Index and Remoteness in Triangulations and Quadrangulations  Discrete Mathematics & Theoretical Computer Science
2020	Minimum Wiener Index of Triangulations and Quadrangulations under review

April 19, 2022 Trevor Olsen