



Trevor Olsen

Ph.D.

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https://tvolsen.github.io/

About Me

Knowledgeable graduate 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
- + SQL (in progress)

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	
2012 – 2013	Mathematics Tutor	Palm Beach Atlantic University
	Provided additional academic support for undergraduate students	

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	
2013 – 2015	M.A. in Mathematics	University of Miami
	GPA: 3.3	
2011 – 2013	B.S. in CS and Mathematics	Palm Beach Atlantic University
	GPA: 3.4	
2009 – 2011	A.A. in Liberal Arts	Inver Hills Community College
	GPA: 3.0	

Publications

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

May 9, 2022

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