Trevor Olsen

Ph.D.

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🌐 https://tvolsen.github.io/

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	
2016 – 2020	**M.A. in Mathematics**	University of Miami
	GPA: 3.3	

Publications

2022	**Proximity in Triangulations and Quadrangulations** *Electronic Journal of Graph Theory and Applications*
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*