TREVOR OLSEN

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EDUCATION

⋆ **University of South Carolina**, Columbia, SC — *August 2018 - December 2021*
Ph.D. in Computer Science
Dissertation: *Sampling and Robustness in Multi-Robot Visibility-Based Pursuit-Evasion*
Advisor: Jason O'Kane

⋆ **University of South Carolina**, Columbia, SC — *August 2016 - May 2020*
Ph.D. in Mathematics
Dissertation: *Distance Related Graph Invariants in Triangulations and Quadrangulations of the Sphere*
Advisors: Éva Czabarka and László Székely

University of South Carolina, Columbia, SC — *August 2018 - August 2021*
M.S. in Computer Science

University of Miami, Coral Gables, FL — *August 2013 - May 2015*
M.A. in Mathematics

Palm Beach Atlantic University, West Palm Beach, FL — *August 2011 - May 2013*
B.S. in Mathematics and Computer Science (dual major)

Inver Hills Community College, Inver Grove Heights, MN — *August 2009 - May 2011*
Associate of Arts

EMPLOYMENT

University of South Carolina, Columbia, SC — *August 2020 - December 2021*
Graduate Assistant, Computer Science

University of South Carolina, Columbia, SC — *August 2016 - May 2020*
Graduate Assistant, Mathematics

Miami Dade College-Kendall, Kendall, FL — *January 2016 - August 2016*
Adjunct Faculty, Mathematics

Miami Dade College-Wolfson, Miami, FL — *May 2015 - December 2015*
Adjunct Faculty, Mathematics

University of Miami, Coral Gables, FL — *August 2014 - May 2015*
College Athlete Tutor, Mathematics

Palm Beach Atlantic University, West Palm Beach, FL — *August 2012 - May 2013*
Departmental Tutor, Mathematics

PUBLICATIONS AND PREPRINTS

8. K. Henson-Evertz and T. Olsen, *Increasing Nicotine Dependence Treatment Encounters Through Nursing Education* (in preparation)
7. T. Olsen, N. Stiffler and J. O'Kane, *Robust-by-Design Plans for Multi-Robot Pursuit-Evasion* (accepted, ICRA 2022)
6. T. Olsen, N. Stiffler and J. O'Kane, *Rapid Recovery from Robot Failures in Multi-Robot Visibility-Based Pursuit-Evasion* (accepted, IROS 2021)

5. H. Yerdon, L. Mutter, T. Olsen, R. Travis and A. Suessman, *Clinical Characteristics of Suspected COVID-19 in Pediatric Patients* (accepted, International Journal of Critical Care and Emergency Medicine)
4. T. Olsen, A. Tumlin, N. Stiffler and J. O'Kane *A Visibility Roadmap Sampling Approach for a Multi-Robot Visibility-Based Pursuit-Evasion Problem* (accepted, ICRA 2021)
3. É. Czabarka, T. Olsen, S. Smith, L.A. Székely, *Minimum Wiener Index of Triangulations and Quadrangulations* (submitted)
2. É. Czabarka, P. Dankelmann, T. Olsen, L.A. Székely, *Proximity in Triangulations and Quadrangulations* (accepted, Electronic Journal of Graph Theory and Applications)
1. É. Czabarka, P. Dankelmann, T. Olsen, L.A. Székely, *Wiener Index and Remoteness in Triangulations and Quadrangulations*, (accepted, Discrete Mathematics & Theoretical Computer Science)

INVITED TALKS

7. ICRA, *Robust-by-Design Plans for Multi-Robot Pursuit-Evasion*, May 2022
6. IROS, *Rapid Recovery from Robot Failures in Multi-Robot Visibility-Based Pursuit-Evasion*, September 2021
5. ICRA, *A Visibility Roadmap Sampling Approach for a Multi-Robot Visibility-Based Pursuit-Evasion Problem*, June 2021
4. SEICCGTC, *Minimum Wiener Index on Triangulations and Quadrangulations*, March 2020
3. University of Miami Combinatorics Seminar, *Remoteness and Wiener Index on Triangulations and Quadrangulations*, November 2019
2. Carolina Math Seminar, *Remoteness and Wiener Index on Triangulations and Quadrangulations*, November 2019
1. U of SC Seminar in Advances in Computing , *Remoteness and Wiener Index on Triangulations and Quadrangulations*, November 2019

RECENT COMMUNITY OUTREACH

3. Partners for Minorities in Engineering and Computer Science, Workshop Leader, June 2020
2. U of SC High School Math Contest, Group Activity Leader, January 2020
1. Partners for Minorities in Engineering and Computer Science, Workshop Leader, June 2019

PROGRAMMING EXPERIENCE

- Python
  - Scikit-learn
  - Matplotlib
  - Pandas
  - Numpy
  - SageMath
  - XGBoost
  - PyTorch
- C++
- Visual Basic
- HTML

TEACHING EXPERIENCE

Term	Course	Institution	Evaluation
Fa 2020	CSCE 750 Analysis of Algorithms (TA)	U of SC	N/A
Fa 2020	CSCE 350 Data Structures and Algorithms (TA)	U of SC	N/A
Sp 2020	MATH 170 Finite Mathematics	U of SC	4.46/5
Fa 2019	MATH 122 Buisness Calculus	U of SC	4.56/5
Su 2019	MATH 142 Calculus II	U of SC	4.55/5
Sp 2019	MATH 122 Buisness Calculus	U of SC	4.45/5
Fa 2018	MATH 141 Calculus I (TA)	U of SC	4.86/5
Fa 2018	MATH 141 Calculus I (TA)	U of SC	5/5
Su 2018	MATH 241 Vector Calculus	U of SC	4.86/5
Sp 2018	MATH 121 Business Calculus	U of SC	4.64/5
Fa 2017	MATH 111i Intensive Basic College Math	U of SC	4.79/5
Su 2017	MATH 142 Calculus II	U of SC	5/5
Sp 2017	MATH 142 Calculus II (TA)	U of SC	4.93/5
Sp 2017	MATH 142 Calculus II (TA)	U of SC	5/5
Sp 2017	MATH 142 Calculus II (TA)	U of SC	4.75/5
Sp 2017	MATH 142 Calculus II (TA)	U of SC	4.84/5
Fa 2016	MATH 142 Calculus II (TA)	U of SC	4.82/5
Fa 2016	MATH 142 Calculus II (TA)	U of SC	4.44/5
Su 2016	MAC 1114 Trigonometry	MDC	4.89/5
Sp 2016	MAC 1105 College Algebra	MDC	4.89/5
Sp 2016	MAC 1114 Trigonometry	MDC	4.89/5
Fa 2015	MAC 1105 College Algebra	MDC	4.89/5
Fa 2015	MAC 0057 Developmental Mathematics III	MDC	4.87/5
Fa 2015	MGF 1107 Math for Liberal Arts II	MDC	4.97/5
Su 2015	MAC 1147 Precalculus	MDC	4.95/5
Su 2015	MAC 2312 Calculus II	MDC	4.85/5