TREVOR OLSEN

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EDUCATION

University of South Carolina, Columbia, SC	August 2018 - Present	
Ph.D. in Computer Science		
Dissertation: Multi-robot Visibility-Based Pursuit-Evasion		
Advisor: Jason O'Kane		
University of South Carolina, Columbia, SC Ph.D. in Mathematics	August 2016 - May 2020	
Dissertation: Distance Related Graph Invariants in Triangulations and Quadrangulations of the Sphere Advisors: Éva Czabarka and László Székely		
University of South Carolina, Columbia, SC M.S. in Computer Science	August 2018 - Present	
University of Miami, Coral Gables, FL M.A. in Mathematics	August 2013 - May 2015	
Palm Beach Atlantic University, West Palm Beach, FL B.S. in Mathematics and Computer Science (dual major)	August 2011 - May 2013	
Inver Hills Community College , Inver Grove Heights, MN Associate of Arts	August 2009 - May 2011	
EMPLOYMENT		
University of South Carolina, Columbia, SC Graduate Assistant, Computer Science	August 2020 - Present	
University of South Carolina, Columbia, SC Graduate Assistant, Mathematics	August 2016 - May 2020	
Miami Dade College-Kendall, Kendall, FL Adjunct Faculty, Mathematics	January 2016 - August 2016	
Miami Dade College-Wolfson, Miami, FL Adjunct Faculty, Mathematics	May 2015 - December 2015	
University of Miami, Coral Gables, FL College Athlete Tutor, Mathematics	August 2014 - May 2015	
Palm Beach Atlantic University, West Palm Beach, FL Departmental Tutor, Mathematics	August 2012 - May 2013	

PUBLICATIONS AND PREPRINTS

- 7. K. Henson-Evertz and T. Olsen, *Increasing Nicotine Dependence Treatment Encounters Through Nursing Education* (in preparation)
- 6. T. Olsen, A. Tumlin, N. Stiffler and J. O'Kane, Rapid Recovery from Robot Failures in Multi-Robot Visibility-Based Pursuit-Evasion (submitted)

- 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, 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, arXiv:2003.03873 (submitted)
- 2. É. Czabarka, P. Dankelmann, T. Olsen, L.A. Székely, *Proximity in Triangulations and Quadrangulations*, arXiv:2001.09012 (submitted)
- 1. É. Czabarka, P. Dankelmann, T. Olsen, L.A. Székely, Wiener Index and Remoteness in Triangulations and Quadrangulations, arXiv:1905.06753 (accepted, Discrete Mathematics & Theoretical Computer Science)

INVITED TALKS

- 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

GENERAL TALKS

- 7. U of SC Discrete Math Seminar, Minimum Wiener Index on Triangulations and Quadrangulations, March 2020
- 6. U of SC Student Seminar, Minimum Wiener Index on Triangulations and Quadrangulations, March 2020
- 5. U of SC Student Seminar, Multi-Robot Visibility-Based Pursuit-Evasion: A Sampling Approach, October 2019
- 4. U of SC Student Seminar, Remoteness and Wiener Index on Triangulations and Quadrangulations, October 2019
- 3. U of SC Student Seminar, The Sperner Property for Posets, a Probabilistic Approach, January 2019
- 2. U of SC Research Seminar, The Sperner Property for Posets, a Probabilistic Approach, January 2019
- 1. U of SC Research Seminar, A Computational Search in Triangulations, October 2018

CONFERENCES ATTENDED

- 5. IEEE International Conference on Robotics and Automation, June 2021
- 4. IEEE International Conference on Robotics and Automation, June 2020
- 3. Southeastern International Conference on Combinatorics, Graph Theory & Computing, Florida Atlantic University, March 2020
- Conference on Additive Combinatorics from a Geometric Viewpoint, University of South Carolina, May 2018
- 1. Graduate Student Combinatorics Conference, University of Texas at Dallas, April 2018

PROGRAMMING EXPERIENCE

- Python (including SageMath): Preferred and primary language
- C++: Used for a majority of my CS research
- Visual Basic: Used for a large portions of my undergraduate projects
- HTML: Used for creating personal static websites

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

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
$\mathrm{Sp}\ 2018$	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
$\mathrm{Sp}\ 2017$	MATH 142 Calculus II (TA)	U of SC	4.93/5
$\mathrm{Sp}\ 2017$	MATH 142 Calculus II (TA)	U of SC	5/5
$\mathrm{Sp}\ 2017$	MATH 142 Calculus II (TA)	U of SC	4.75/5
$\mathrm{Sp}\ 2017$	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
$\mathrm{Sp}\ 2016$	MAC 1105 College Algebra	MDC	4.89/5
$\mathrm{Sp}\ 2016$	MAC 1114 Trigonometry	MDC	4.89/5
Fa 2015	MAC 1105 College Algebra	MDC	4.89/5
$\mathrm{Fa}\ 2015$	MAC 0057 Developmental Mathematics III	MDC	4.87/5
$\mathrm{Fa}\ 2015$	MGF 1107 Math for Liberal Arts II	MDC	4.97/5
$\mathrm{Su}\ 2015$	MAC 1147 Precalculus	MDC	4.95/5
Su 2015	MAC 2312 Calculus II	MDC	4.85/5