Paul Gustafson
paul.gustafson@gmail.com

Publications and Preprints

Paul Gustafson. "Finiteness for Mapping Class Group Representations from Twisted Dijkgraaf-Witten Theory", arXiv:1610.06069, 2016.

Ronald Fernandes; Biyan Li; Kalyan Vadakkeveedu; Ajay Verma; Paul Gustafson, et al. "Agent-based analysis of trustworthiness in wireless sensor networks", Proc. SPIE 8407, Multisensor, Multisource Information Fusion: Architectures, Algorithms, and Applications 2012, 84070W (May 1, 2012); doi:10.1117/12.920781.

Paul Gustafson; Nathan Savir; Ely Spears. "A Characterization of Refinable Rational Functions", American Journal of Undergraduate Research 5 (3): 11-20 (Nov. 11, 2006).

Education

PhD candidate Fall 2013 - Present
Texas A&M University, Math Department

- Advisor: Eric Rowell
- Field of study: Mapping class group representations from TQFTs

Bachelor of Science in Mathematics 2013
Texas A&M University

Work Experience

Graduate Teaching Assistant Fall 2013 - Present
Texas A&M University, Math Department

- Sole instructor for 60-student Calculus class

Programmer Analyst Fall 2008 - Spring 2012
Knowledge Based Systems, Inc.

- Secured $825,000 Phase II SBIR grant by co-developing a wireless sensor network cybersecurity simulator in Java and NetLogo

Counselor Summer 2009, Summer 2010
SMaRT Camp, Texas A&M University

- Mentored mathematically-inclined high schoolers in elementary number theory

Github Repository

stringnet December 2016 - Present

- A Haskell library for quantum mapping class group representations