Danielle Stewart | CV

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Education

University of Minnesota - Twin Cities — **Minneapolis, USA**
Ph.D. Student in Computer Science, GPA: 3.8/4.00 — *2016–present*
supervisors: Dr. M. Heimdahl and Dr. M. W. Whalen

University of Minnesota, Duluth — **Duluth, MN**
M.Sc. in Mathematics, GPA: 3.8/4.00 — *2013–2015*
thesis: Even Harmonious Labelings of Disconnected Graphs
supervisor: Dr. J. Gallian

University of Minnesota, Duluth — **Duluth, MN**
B.Sc. in Mathematics, GPA: 3.74/4.00 — *2011–2013*
thesis: Generation of Pseudoprimes
supervisor: Dr. J. Greene

Lake Superior College — **Duluth, MN**
Associate of Arts, GPA: 4.00/4.00 — *2008–2011*

Bemidji High School (Homeschooled) — **Bemidji, MN**
High School Diploma, GPA: 4.00/4.00 — *1998–2002*

Research Interests

Safety analysis of systems, model based safety analysis, cyber-security, safety analysis applied to cyber-security, software verification, formal methods, model checking, model-based development, dependable and secure software development, software testing.

Work Experience

Research Assistant: Critical Systems Group, University of Minnesota — *Dec. 2016– present*

Course Development: Coursera: Software Engineering — *Sept. 2017– present*

Instructor: University of Minnesota, Duluth: Dept. of Mathematics — *Aug. 2015– May. 2016*

Teaching Assistant: University of Minnesota, Duluth: Dept. of Mathematics — *Aug. 2013– May. 2015*

Publications

[1] Danielle Stewart, Michael W Whalen, Darren Cofer, and Mats Heimdahl. Architecture modeling and analysis for safety engineering. In *IMBSA2017: 5th International Symposium on Model-Based Safety and Assessment*, 2017.

[2] Joseph A. Gallian and Danielle Stewart. Even harmonious labelings of disjoint graphs with a small component. *AKCE International Journal of Graphs and Combinatorics*, 12(2):204 – 215, 2015.

[3] Joseph A. Gallian and Danielle Stewart. Properly even harmonious labelings of disconnected graphs. *AKCE International Journal of Graphs and Combinatorics*, 12(2):193 – 203, 2015.

[4] Joseph Gallian and Danielle Stewart. Properly even harmonious labelings of disjoint unions with even sequential graphs. *Journal of Graph Labelings*, 1(1), 2015.

Poster Presentations

- Properly Even Harmonious Graphs, IWOCA 2014, October, Duluth, MN, USA

Honors and Awards

2016: Awarded College of Science and Engineering Graduate Fellowship, University of Minnesota

2015: SCSE Outstanding Teaching Assistant Award, University of Minnesota, Duluth

2016: UMD Mathematics Departmental Teaching Assistant Award, University of Minnesota, Duluth

2014: Summer Research Fellowship, Dept. of Mathematics, University of Minnesota, Duluth

2013: Undergraduate Research Opportunities Grant, University of Minnesota, Duluth

2013: Duane E. Anderson Memorial Fellowship, University of Minnesota, Duluth

2012–2014: Pi Mu Epsilon Honor Society, University of Minnesota, Duluth: Dept. of Mathematics

2011–2012: Martha Lahti Scholarship, University of Minnesota, Duluth

2010: Student of the Year Award, Lake Superior College, Duluth, MN

2009: Student of the Year, Biology Dept. Award, Lake Superior College, Duluth, MN

Professional Activities

Reviewer

- FM 2018: International Symposium on Formal Methods
- NFM 2018: 10th NASA Formal Methods Symposium
- ASE 2017: 32nd IEEE/ACM International Conference on Automated Software Engineering
- SETTA 2017: 3rd Symposium on Dependable Software Engineering
- MEMOCODE 2017: 15th International Conference on Formal Methods and Models for System Design

Service

- Graduate Council Student Representative, University of Minnesota, Duluth: 2014-2015

Selected Course Projects

- Sequent Calculus Proof Checker (OCaml)
  - Topics in Computation and Deduction, 2016
- Device Driver for Linux OS
  - Operating Systems Course, 2016
- Phishing Detection Using Natural Language Processing Techniques
  - Computer Security Course, 2016
- Lexer, Parser, Evaluator, and Type-Checker for Imperative Language in OCaml
  - Programming Languages Course, 2014

Computer skills

Programming Languages: Java, Perl, OCaml, Python, C++, LaTex, Prolog, MIPS Assembly

Modeling Languages: AADL, Lustre

Tools: AGREE, Simulink

References

- Mats Heimdahl
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    - Tel: +1-612-625-2068
- Michael W. Whalen
  - Department of Computer Sience & Engineering, University of Minnesota, MN, USA.
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    - Tel: +1-612-624-5130
- Joseph Gallian
  - Deptartment of Mathematics, University of Minnesota Duluth, MN, USA.
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