

Titus Klinge

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Education

- 2011-pres **Ph.D.** Computer Science
Iowa State University
Expected graduation: Spring 2016
- 2011 **B.S.** Computer Science
Iowa State University

Publications

- 2015 Titus H. Klinge, James I. Lathrop, and Jack H. Lutz. Robust molecular finite automata. Technical Report 1505.03931, arXiv.org e-Print archive, 2015
- 2014 Samuel J. Ellis, Eric R. Henderson, Titus H. Klinge, James I. Lathrop, Jack H. Lutz, Robyn R. Lutz, Divita Mathur, and Andrew S. Miner. Automated requirements analysis for a molecular watchdog timer. In *Proceedings of the 29th International Conference on Automated Software Engineering*, pages 767–778. ACM, 2014
- 2012 Robyn R. Lutz, Jack H. Lutz, James I. Lathrop, Titus H. Klinge, Divita Mathur, Donald M. Stull, Taylor G. Bergquist, and Eric R. Henderson. Requirements analysis for a product family of DNA nanodevices. In *Proceedings of the 20th International Conference on Requirements Engineering*, pages 211–220. IEEE, 2012
- Robyn Lutz, Jack Lutz, James Lathrop, Titus Klinge, Eric Henderson, Divita Mathur, and Dalia Abo Sheasha. Engineering and verifying requirements for programmable self-assembling nanomachines. In *Proceedings of the 34th International Conference on Software Engineering*, pages 1361–1364. IEEE, 2012

Professional Experience

- Iowa State University**, *Graduate Research Assistant* Aug 2011 – Present
Responsible for the design of molecular algorithms and rigorous proofs of their correctness using mathematical analysis and automated tools
- Iowa State University**, *Prospective Student Coordinator* Aug 2011 – Dec 2013
Met with prospective high school students to discuss Iowa State’s Computer Science program

- IBM, *Extreme Blue Technical Intern*** *May 2010 – Aug 2010*
 Responsible for development of a code execution profiler and static code analysis tools for PL/X (an IBM language) using Java; also wrote a language parser using JavaCC in support of the above tools
- Iowa State University, *Undergraduate Research Assistant*** *Jan 2010 – May 2010*
 Implemented concurrent counterparts of OO design patterns and compared execution performance to sequential implementations in popular open source projects
- Institute for Transportation, *Student Programmer*** *May 2009 – May 2010*
 Developed a data management application using Java, Oracle, and PL/SQL for Iowa DOT lab technicians

Teaching Experience

- Iowa State University, *Graduate Teaching Assistant*** *Jan 2014 – May 2014*
 Wrote assignments and exams, taught recitations, and graded for an undergraduate algorithms course
- Iowa State University, *Instructor of Record*** *Oct 2013 – Oct 2013*
 Responsible for preparing curriculum and lecturing to students in a two-week discrete mathematics class
- Iowa State University, *Undergraduate Teaching Assistant*** *Aug 2010 – Dec 2010*
 Taught recitations and graded written documentation, oral presentations and final group projects in an undergraduate advanced programming tools class
- Iowa State University, *Undergraduate Teaching Assistant*** *Jan 2009 – May 2009*
 Responsible for facilitating student lab sessions and writing automated grading tools for an undergraduate introduction to object-oriented programming class

Honors and Awards

2014	Iowa State Teaching Excellence Award
2012	Robert Stewart Early Research Recognition Award
2011	Winner of Iowa State Game Development Competition (1st Place)