

Education

University of Washington

Graduate Student in Computer Science and Engineering

Seattle, WA

September 2015 - Present

University of Illinois

BSLAS in Math and Computer Science

Urbana-Champaign, IL

August 2011 - May 2015

- GPA: 3.95
- Minor in German

Research Interests

My interests lie broadly in designing algorithms on graph problems. Problems I've worked on include routing, planarity, and matchings. I'm also interested more generally in combinatorial questions that can be answered with algorithm design.

Projects and Publications

- **Embedded-Width: A Variant of Treewidth for Plane Graphs** Study of treewidth on planar graphs
With Glencora Borradaile, Hung Le, and Jeff Erickson
Pre-print. <https://arxiv.org/abs/1703.07532>
- **Can One Fake Randomness** Differentiating pseudo-random algorithmically generating strings from strings generated by humans trying to "be random."
With Chad Franzen, Rishabh Marya, and AJ Hildebrand
Talk at MAA Mathfest (August 2014)
Won Akuna Capital LLC Award for Outstanding Poster Presentation at UIUC Undergraduate Research Symposium

Teaching Experience

- Graduate Teaching Assistantships
 - CSE 521 (Graduate) Design and Analysis of Algorithms Winter 2017
 - CSE 417 (Non-major) Algorithms and Computational Complexity Winter 2016
 - CSE 311 Foundations of Computing I Autumn 2015
- Tutoring
 - Weekly volunteer tutoring sessions with undergraduates (organized by School of Computer Science)
 - Winter 2016-present. Classes tutored include: CSE 311 and 312 (foundations of computing) CSE 417 (algorithms)
- Undergraduate Assistantships
 - CS 374 Algorithms and Models of Computation Spring 2015
 - CS 173 Discrete Structures 4 Semesters Spring 2013 - Fall 2015
 - CS 125 Introduction to Computer Science 2 Semesters Spring 2012 - Fall 2012

Honors and Awards

- C.W. Gear Outstanding Undergraduate Student (2015 – Computer Science Department, UIUC)
- Most Outstanding Undergraduate Major Award in Mathematics and Computer Science (2014 – Mathematics Department, UIUC)
- John R. Pasta Outstanding Undergraduate Award (2014 – Computer Science Department, UIUC)
- Sam and Dubey Portnoy Memorial Scholarship (2014-15 – College of Liberal Arts and Sciences, UIUC)
- CHP Outstanding Senior Award (2014 – Campus Honors Program, UIUC)
- Robert A. and Elanor A. Flinn Award for Undergraduate Research (2014 – German Department, UIUC)
- Outstanding Student for German (2013 – German Department, UIUC)