

EDUCATION

University of Washington Ph.D. in Mathematics	2016 - present
University of Illinois at Chicago M.S. in Mathematics	2015-2016
Carnegie Mellon University B.S. in Mathematical Sciences, Minor in Economics	2011-2015

PUBLICATIONS

1. Sami Davies, Thomas Rothvoss, Yihao Zhang. "A Tale of Santa Claus, Hypergraphs and Matroids," in submission.
2. Sami Davies, Chenxiao Xue, Carl R. Yerger, "Algorithms for finding knight's tours on Aztec diamonds," *Involve, a Journal of Mathematics*, Vol. 10 (2017), No. 5, 721-734.

PRESENTATIONS

1. *On Globally Defined Solutions of the Generalized Constantin-Lax-Majda Equations*. MAA Undergraduate Poster Session: 2015 Joint Mathematics Meeting. Joint presentation with Gopal Yalla.
2. *On Globally Defined Solutions of the Generalized Constantin-Lax-Majda Equations*. 2014 Leadership Alliance National Symposium. Joint presentation with Gopal Yalla.
3. *Searching for Combinatorial Interpretations Using the Bhargava Defined Factorial*. 2013 Summer Undergraduate Applied Mathematics Institute Symposium. Joint presentation with Joe Gault.

INVITED PARTICIPATION

Women in Theory	June 2018
Leadership Alliance Summer Research Program Brown University <i>Examining Euler Equations</i> . Joint work with Professor Johnny Guzman and Gopal Yalla	Summer 2014
Summer Undergraduate Applied Mathematics Institute CMU <i>Patterns of the Bhargava Defined Factorial</i> . Joint work with Joe Gault and Professor Gregory Johnson.	Summer 2013

AWARDS AND FELLOWSHIPS

McKibben and Merner Endowed Fellowship in Mathematics University of Washington	2017-2019
Department of Mathematics, Statistics, and Computer Science Fellowship University of Illinois at Chicago	2015
Senior Leadership Recognition Award Carnegie Mellon University	2015
College and University Honors Carnegie Mellon University	2015
Leadership Alliance Scholar	2014

TEACHING

I served as a teaching assistant for the following courses.

Math 111	Algebra with Applications	UW Fall 2017
Math 124	Calculus I	UW Winter & Spring 2017
Math 126	Multivariable Calculus	UW Fall 2016
Math 121	Pre-Calculus	UIC Fall 2015 & Spring 2016
21-241	Matrices and Linear Transformations	CMU Spring 2015

MATH RELATED OUTREACH

Freedom Education Project Puget Sound Tutored fall of 2017. Course instructor summer of 2018.	2017-present
Math Circle Instructor spring of 2018.	2018-present
Association for Women in Math Member since 2016. Currently secretary of the UW student chapter.	2016-present