Assistant Professor Math Center for Educational Programs (MathCEP)	August 2012 - present
University of Minnesota, Minneapolis, MN	
_ Education	
• Ph.D., Mathematics University of Illinois, Urbana, IL	August 2012
• M.S., Teaching of Mathematics University of Illinois; Urbana, IL	May 2011
• B.S., Mathematics cum laude, Coolidge Otis Cl University of Puget Sound; Tacoma, WA	hapman Honors Scholar May 2006
_ Research Interests	
• Graph games: Ramsey games, pursuit-evasi	on games
• Mathematics Education	
Teaching Experience	
At the University of Minnesota	
Course Instructor:	
\circ Modern Algebra (Math 4281)	Spring 2013, Fall 2013
$\circ~{\rm UMTYMP^*}$ Calculus I	Spring 2013, Fall 2013
• UMTYMP Calculus II	Fall 2012
Workshop Instructor:	
• UMTYMP Calculus I	Fall 2012, Spring 2013, Fall 2013
• UMTYMP Calculus II	Fall 2012, Spring 2013
• UMTYMP Calculus III	Fall 2013
*UMPTYMP (The University of Minnesota Tale for talented middle- and high-school students. The credit, are: differential and integral calculus (Cole III). Each course has a b	nted Youth in Mathematics Program) is a five-year program The last three year-long courses, which receive UMN course Calc I), set theory, logic, and linear algebra (Calc II), and ecture component with the main instructor as well as an

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Fall 2009

Merit Workshop Instructors teach group-work-focused workshops that are associated with a lecture.

Fall 2007, Spring 2008, Fall 2008

Merit Course Instructors teach a special version of Calculus II in which the students have no lecture but instead learn through group work and occasional mini-lectures. Teaching Assistant: Calculus II (two semesters). Calculus I (one semester)

Course Tutor Precalculus (one semester), Linear Algebra (one semester)

active-learning workshop component with a workshop instructor.

• Calculus I and II

• Calculus II

Merit Workshop Instructor:

Merit Course Instructor:

At the University of Illinois at Urbana-Champaign

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Enrichment & Outreach • Academic Director, MathCEP Girls Excel in Math (GEM) program Fall 2012 - present GEM is an enrichment program for 4th- and 5th-grade girls in the Twin Cities area. Approximately 300 students participate in the academic year program and 30 in the threeday summer program. • Mentor, M.S. student teachers Fall 2012 - present MathCEP, in cooperation with the Curriculum and Instruction Department, offers a Master's Degree Program in Mathematics with emphasis in Mathematics Education. Students in this program visit and assist with UMTYMP courses, and meet with the MathCEP faculty weekly to discuss pedagogy. • **Guest lecturer**, Preparation for College Teaching (Math 8001) "Active learning" October 2012, 2013 July 2013 • Instructor, MathPath: "Graph Ramsey Theory" MathPath is a four-week residential summer camp for students aged 11 to 14 who show high promise and interest in mathematics. MathPath students extend their knowledge of and skills in mathematics while being immersed in mathematical culture. Summer 2012, 2013 • **Instructor**, MathCEP Teacher Professional Development Course A week-long math enrichment course for elementary- and middle-school teachers. • Instructor, UMTYMP Summer Program Summer 2013 A week-long math enrichment course for UMTYMP students. • Guest lecturer, College In the Schools, teacher training session "The Four Colour Theorem" February 2013 • Workshop organizer, University of Illinois, Women in Mathematics Seminar "TA Workshop: active learning and lectures" March 2011 $_$ Research $_$

Math Education:

1. Analyzing the Gender Gap on an Entrance Exam for Mathematically Talented Students with H. Keynes, J. Rogness, J. Sukiennik

To appear, Journal of Math. and Sci.: Collaborative Explorations

Undergraduate research supervised:

1.	. Subdividing the wheel graph towards a unit distance graph in the plane
	with I. Garfinkle, S. Jacobs, S. Stankey
	UMTYMP summer research project
	Presentations: Pi Mu Epsilon Conference, MAA North Central Section meeting, Spring 2013
	Paper submitted

2. Line-of-sight pursuit in polygonal environments with A. Beveridge, V. Isler, L. Berry, Z. Keller, A. Shine, J. Wang MAXIMA REU, Institute for Mathematics and its Applications, University of Minnesota Presentations: Young Mathematicians Conference 2013, JMM Undergrad Poster Session 2014 Paper in preparation

Graph Theory:

- 1. Mantel's theorem for random hypergraphsSubmitted2. On the chromatic thresholds of hypergraphs To appear, Comb., Probability & Computing
- 3. Revolutionaries and spies: Spy-good and spy-bad graphs Theoretical Comp. Sci 2012
- 4. On-line Ramsey Theory for bounded degree graphs Electronic J. Combinatorics 2011
- 5. Excluding induced subgraphs: Critical graphs Random Structures & Algorithms 2011
- 6. Online Ramsey games for triangles in random graphs Discrete Mathematics 2010

_ Fellowships & Awards _____

Teaching Awards	
At the University of Illinois, Urbana, IL:	
• Award for Excellence in Undergraduate Teaching by Graduate Assistant Campus award	its: March 2012
College of Liberal Arts and Sciences award	February 2012
• Brahana TA Instructional Award	April 2010
 Named to the List of Teachers Ranked as Excellent: Fall 2006, Fall 2008, Fall 2009 	9, Spring 2009, Spring 2010
Fellowships	, , , , , , , , , , , , , , , , , , , ,
 Project NExT Fellow (Silver 12) supported by The Mary P. Dolciani Halloran Foundation 	2012 - 2013
At the University of Illinois, Urbana, IL:	
• REGS3 Thesis Completion Fellowship	August 2011 - August 2012
\circ Dr. Lois M. Lackner Mathematics Fellowship	August 2010 - May 2011
\circ REGS2 and REGS1 Summer Research Fellowship	Summer 2007 - 2011
Undergraduate awards	
At the University of Puget Sound, Tacoma, WA	
\circ Roderick MacArthur Award for a superior honors thesis presentation	May 2006
\circ Summer 2005 Research Grant For Science and Mathematics	Summer 2005
_ Service and Professional Development	
Conferences	
• Co-organizer , "Alternative Assessment Techniques" Contributed Paper Session, Joint Math Meetings	January 2014
• Co-organizer , "Alternative Assessment Techniques" Project NExT Panel, Joint Math Meetings	January 2013
• Co-organizer , 8th annual Graduate Student Combinatorics Conference	e Spring 2012
• Assistant, AMS Spring Central Sectional Meeting	March 2009
• Undergraduate Assistant, MAA Pacific Northwest Section meeting	April 2005
REUs	
• Research Mentor , MAXIMA Interdisciplinary REU Institute for Mathematics and its Applications, University of Minnes	Summer 2013 ota
\circ Research advisor, UMTYMP Summer Research Opportunities	Summer 2012
Referee	
• Discrete Mathematics	
• Random Structures & Algorithms	
Societies and Organizations	
\circ Member : AMS, AWM, MAA	
$\circ~{\bf Treasurer},$ student chapter of AWM, University of Illinois	2011 - 2012
$\circ~{\bf Treasurer},$ student chapter of SIAM, University of Illinois	2011 - 2012
Department Service At the University of Illinois, Urbana, IL	
• Committee Member , Graduate Teaching Awards Committee	Spring 2008, Fall 2011
• Chair , Graduate Teaching Awards Committee	Fall 2010

• Co-organizer , Women in Math seminar	2010 - 2011
$\circ~$ Volunteer, ICTM state mathematics contest for high school students	Spring 2011
• TA Mentor , Merit Program	Fall 2008
• Graduate Assistant, ICTM state mathematics contest for high schoo	l students Spring 2007
_ Selected Talks	
• Joint Math Meetings AMS Special Session on Outreach for Mathematically Talented Youth "The kids don't bite, but they never stop asking questions: Two new re	Scheduled, January 2014 ecruits teach at MathPath"
• AMS Fall Southeastern Section Meeting "Mantel's theorem for random hypergraphs"	October 2013
• MathPath , Plenary "Games in graphs: avoiding triangles"	July 2013
 Joint Mathematics Meeting MAA Session on How Assessment Results Changed our Program "Reducing the gender gap on a qualifying exam" 	January 2013
• St. Olaf College, Mathematics Seminar "Games in graphs: avoiding triangles"	September 2012
• University of Puget Sound, Mathematics Seminar "Games in graphs: avoiding triangles"	November 2011
• AMS Fall Central Section Meeting Special Session on Extremal and Probabilistic Combinatorics "Chromatic thresholds for hypergraphs"	October 2011
• Western Washington University, Mathematics Seminar "Ramsey games for triangles in random graphs"	June 2011
• Random Structures and Algorithms "Chromatic thresholds for hypergraphs"	May 2011
• MIGHTY "The game of Revolutionaries and Spies"	April 2011
• 7th Graduate Student Combinatorics Conference "The game of Revolutionaries and Spies"	April 2011
• University of Illinois, Women in Mathematics Seminar "Games in Graphs: Revolutionaries and Spies"	October 2010
• 22nd Cumberland Conference "On the structure of almost all odd-cycle free graphs"	May 2009

_ Letters of Recommendation _____

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Jonathan Rogness	Jennifer McNeilly
Math Center for Educational Programs	Department of Mathematics
University of Minnesota	University of Illinois
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Statistics & Computer Science	Department of Mathematics
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