

# Amy Parrott

Department of Mathematics  
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## Education

Ph.D. Mathematics University of Nebraska-Lincoln, Lincoln, NE August, 2009  
Dissertation: *A computational study of the effects of temperature variation on turtle egg development, sex determination, and population dynamics.*  
Advisor: Dr. J. David Logan

M.S. Mathematics, University of Nebraska-Lincoln, Lincoln, NE May, 2005

B.A. Mathematics Summa Cum Laude, Central College, Pella, IA, May 2002  
Secondary Education Endorsement in 7-12 Mathematics

## Research Interests

*Mathematics Education:* Mathematical behavior and thinking in pre-service elementary and middle school mathematics teachers, standards based grading, and the development of conjectures across different levels of mathematical maturity

*Mathematics:* Modeling of ecological effects of climate change

## Employment

*Associate Professor*, University of Wisconsin Oshkosh, Fall 2015-Present

*Assistant Professor*, University of Wisconsin Oshkosh, Fall 2009-Summer 2015

Courses Taught: 171 Calculus I, 217 Data Exploration and Analysis, 714 Developing a Problem Solving Focus in Teaching, 211 Fundamentals of Geometry and Measurement, 319 Infinite Processes, 256 Introduction to Linear Mathematics, 413 Modern Algebra, 415 Modern Geometry, 110 Number Systems, 319 Probability and Statistics, 712 Problem Solving for Teachers, 485 Seminar in Problem Solving, 490 Senior Seminar for Elementary Math Specialists

*Graduate Teaching Assistant*, University of Nebraska-Lincoln, Lincoln, NE, 2003 - 2009

Recitation Instructor: Business Calculus, Calculus I, Calculus II; Instructor of Record: Trigonometry, College Algebra and Trigonometry, Business Calculus, Contemporary Mathematics, Mathematics Matters (Math for Elementary Teachers), Geometry Matters (Geometry for Elementary Teachers)

*Research Assistant*, University of Nebraska-Lincoln, Lincoln, NE, Summers 2005-2006

*High School Mathematics Teacher*, Melcher-Dallas CSD, Melcher, IA 2002 - 2003

*Walk-About Team Teacher Grades K-5*, ISD 77, Mankato, MN Summers 1998-2001

## Outreach Activities

Instructor for GAP Math: Solving the Unknown (Beginning 2017)

A workshop for in-service middle and high school teachers from Wisconsin.

Instructor for Making Mathematical Connections (2015-Present)

A workshop for in-service middle-level teachers from Wisconsin.

Instructional Team Leader for K-5 STEM (2013-2015)

A science and mathematics workshop for in-service K-5 teachers from Wisconsin.

Instructor for Making Mathematical Connections (2010-2012)

A workshop for in-service middle-level teachers from Wisconsin.

Instructor for All Girls/All Math Cryptography course (2011).

A summer camp for female high school students.

Instructor Assistant for Math in the Middle Institute (2007, 2009).

A program for in-service middle-level teachers from Nebraska.

Instructor Assistant for NebraskaMATH (2009).

Geometry, Measurement and Algebraic Thinking for K-3 math specialists in Nebraska.

## Publications and Presentations

Belnap, J., Parrott, A., (2017) Mathematical Enculturation through Conjecturing. Gold, B., Behrens, C. & Simons, R. (Eds.) MAA Notes

“Classroom conversations concerning the nature of mathematics,” WI-MAA, La Cross, WI, April 23, 2016

Szydlik, J., Belnap, J.K., Parrott, A., (2016) Mathematical Conversations to Transform Geometry Class. *Mathematics Teacher*, 109, 507-513

Belnap, J.K., Parrott, A., (2015) Instantiation Practices During Conjecturing Activity: Implications from the Use of Technology. Proceedings of the 18<sup>th</sup> SIGMAA on Research in Undergraduate Mathematics Education Conference. Pittsburgh, Pa.

Parrott, A., Brunsell, E., Kneser, D. M., & Niemi, K.J. (2014). NGSS and the CCSS Mathematics. In E. Brunsell, D.M. Kneser, & K.J. Niemi (Eds.), *Introducing Teachers and Administrators to the NGSS: A Professional Development Facilitators Guide* (pp 168-180). Arlington, VA: NSTA Press

Belnap, J., Parrott, A., (2013) Understanding Mathematical Conjecturing. Proceedings of the 16<sup>th</sup> SIGMAA on Research in Undergraduate Mathematics Education Conference. Denver, CO.

“Conceptualizing and Measuring Mathematical Sophistication,” Joint Mathematics Meetings, San Diego, CA, January 11, 2013

Parrott, A., Logan, J.D., 2010. Effects of Temperature Variation on TSD in turtle (*C. picta*) populations. *Ecological Modelling* 221, 1378-1393.

“The effects of climate change on a species with temperature dependent sex determination,” MAA MathFest, Pittsburgh, PA, August 7, 2010.

Szydlik, J., Kuennen, E., Belnap, J., Parrott, A., Seaman, C., 2012. Conceptualizing and Measuring Mathematical Sophistication. Unpublished results

### **Grants and Awards**

“Inquiry-Based Math Tasks”, Faculty Development Teaching Grant, UWO (7.5% CAS), 2011  
2011 SOTL Starter Grant, (\$ 1000) UWO

SOTL Mentoring Program 2009-2010 Mentee, (\$ 500) UWO

MAA Project NExT 2009-2010 Fellow

UNL Teaching Council and UNL Parents Association “Certificate of Recognition for Contributions to Students” 2009

Preparing Future Faculty Fellow (PFF) 2007

Graduate Assistance in Areas of National Need (GAANN) Fellowship 2007-8.

Student Assistantship in Research and Scholarship (STARS) Fellowship Summer 2005.

### **Service Activities**

UWO Faculty Development Grant Teaching Panelist (2012-Present)

UWO Math Lab Guest Faculty Tutor (2010-Present)

Midyear Commencement Graduate Studies Marshal (2012)

UWO Fall and Spring Preview Days (2009, 2011, 2012)

University Wide Committee: Gender Equity Council (2015-Present)

Search and Screen Committees:

Director of Women’s Center (Spring 2016)

Department of Teaching and Learning Assistant Professor of Math Education (Spring 2015)

Director of Equity and Affirmative Action (Spring and Fall 2014)

Department Committees:

Curriculum: Applied Emphasis, Elementary/Middle Education, Graduate Program, Secondary Education

Administrative: Assessment, Math Club, Policies, Scheduling, Social

### **Professional Memberships**

Mathematical Association of America

National Council of Teachers of Mathematics