

Curriculum Vita

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Work Experience

2006-Present	Faculty Associate	CRESMET/MSER, AZ
2005-Present	Math Professor	Scottsdale Community College, AZ
2000-2005	Teaching Assistant	Arizona State University, AZ
2002-2005	Research Assistant	Arizona State University, AZ
2001-2004	Research Assistant	Maricopa Community Colleges, AZ
2003-2004	Curriculum Developer	Maricopa Community Colleges, AZ
1997-2000	Teaching Assistant	The Ohio State University, OH

Education

Ph.D. Mathematics, Arizona State University, 2005
Research Area: Mathematics Education
Thesis Title: The Emergence of a Community of Practice in a Mathematical Structures Course. Thesis Advisor: Dr. Michelle Zandieh
Certificate in Statistics, Arizona State University, 2004
M.A. Mathematics, Arizona State University, 2002
B.S. Mathematics, The Ohio State University, 2000

Teaching Experience

Mathematics Professor, Scottsdale Community College, Scottsdale, AZ (2005-Present)

- Teach various mathematics courses ranging from beginning algebra through Multivariable Calculus
- Coordinate courses, create lesson plans and activities
- Maintain website for department containing various activities and other teaching materials
- Co-coordinator of Math and Science Field Day Annual Event

Teaching Assistant, Arizona State University, Tempe AZ (2000-2005)

- Taught Calculus I, Calculus II, Brief Calculus, Pre-Calculus, College Algebra, and Theory of Elementary Mathematics, received favorable reviews (available upon request)
- Assisted in Mathematical Structures course for mathematics and mathematics education majors
- Implemented technology in classroom, wrote and graded exams, worked as tutor for all undergraduate math classes

Curriculum Developer/Instructor, Maricopa Community Colleges, Tempe, AZ (2003-2004)

- Developed syllabus, activities, and website (<http://www.clarkphil.com/prob>) for probability and data analysis course for middle school and high school mathematics teachers
- Taught course, grade and analyze student work, maintained relationship with teachers, evaluated performances and designated grades

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Instructor for SAT and PSAT prep course (2001-2004)

- Helped students with problems from old exams
- Discussed approaches to answering questions
- Worked with students to improve exam scores

Teaching Assistant, The Ohio State University, Columbus, OH (1997-2000)

- Taught college algebra and pre-calculus courses
- Graded homework, quizzes and exams
- Tutored undergraduate mathematics courses

Research Experience

Faculty Associate, CRESMET, Dr. Marilyn Carlson, Tempe, AZ (2006-Present)

- Create, maintain and research professional development website for precalculus course
- Hire, coordinate and train tutors for CAR program (<http://cresmet.asu.edu/car>)
- Create and maintain research artifacts
- Create and maintain professional development tools for pre and in-service teachers
- Collect data for MSP project (<http://cresmet.asu.edu>)
- Create websites containing course content materials for NSF presentation
- Analyze data using various frameworks and technology for MSP
- Work with and help train graduate research assistants

Research Assistant, NSF Early Career Grant, Dr. Michelle Zandieh, Tempe, AZ

- Collected data in mathematical structures course in Spring 2004
- Worked with research team to develop and analyze effectiveness of classroom activities
- Worked with students to gauge understanding
- Graded homework and exams

Research Assistant, Summer Math, Chandler, AZ (2003-2004)

- Took comprehensive field notes of class sessions
- Assisted teachers in planning classroom sessions
- Worked with middle school teachers to create effective lesson plans
- Worked with children to gain insight into effectiveness of program

Research Assistant, TBLR, Tempe, AZ (2002)

- Edited math videos and scripts for LINKS projects
- Created lesson plans to accompany LINKS CDs
- Created database of math problems for innovative math software

Research Assistant, MAPPS Evaluation Liaison, Chandler, AZ (2001-2003)

- Took and compiled comprehensive field notes of class sessions
- Worked with parents to gauge effectiveness of program
- Collected and summarized reflections of participants
- Collected and summarized personal data of participants

Research Interests

My present research involves improving professional development tools for pre-service and in-service high school teachers. I am working with groups at CRESMET to create research-based items that will help better prepare teachers for the situations that arise when working with

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students. We have used hundreds of hours of research data to create tools to help in teacher training. We continue to collect and analyze data to improve on these tools.

Publications

Clark, P., Moore, K., & Carlson, M. (2009). Documenting the emergence of “speaking with meaning” as a sociomathematical norm in professional learning community discourse. *The Journal of Mathematical Behavior*, 27(4), 297-310.

Clark, P., Moore, K. (2007, October). *Documenting the Emergence of “Speaking in Meaning” as a Sociomathematical Norm in Professional Learning Community Discourse*. Proceedings of the Twenty-ninth Annual Meeting of PME-NA, (North American Chapter of the International Group for the Psychology of Mathematics Education). Lake Tahoe, NV

Clark, P. (2005, October). *The concept of brokering in a classroom community of practice*. Proceedings of the Twenty-seventh Annual Meeting of PME-NA, (North American Chapter of the International Group for the Psychology of Mathematics Education). Roanoke, VA.

Clark, P. (2005). The teacher as broker in a classroom community of practice. *Sonoran Journal of Graduate Mathematics*, 1. http://mathpost.asu.edu/%7Eesjgm/2005_spring.html

Presentations

Clark, P., Moore, K. (2008, February). *Speaking with Meaning in a College Algebra Class*. Conference on Research in Undergraduate Mathematics Education, San Diego, CA

Clark, P., Moore, K. (2007, October). *Documenting the Emergence of “Speaking in Meaning” as a Sociomathematical Norm in Professional Learning Community Discourse*. Twenty-ninth Annual Meeting of PME-NA, (North American Chapter of the International Group for the Psychology of Mathematics Education). Lake Tahoe, NV

Clark, P., Moore, K. (2007, February). *Documenting the Emergence of “Speaking in Meaning” as a Sociomathematical Norm in Professional Learning Community Discourse*. Conference on Research in Undergraduate Mathematics Education, San Diego, CA

Clark, P. (2005, October). *The concept of brokering in a classroom community of practice*. Twenty-seventh Annual Meeting of PME-NA, (North American Chapter of the International Group for the Psychology of Mathematics Education). Roanoke, VA.

Clark, P. (2005, February). *The emergence of a community of practice in a proof structure class*. Conference on Research in Undergraduate Mathematics Education, Phoenix, AZ

“Activities for Probability and Statistics” Workshop for Korean Middle School Teachers, Tempe, AZ, January 17 2005.

“Darcy’s Basketball Game” 2004 State Conference: Navigating the Standards – Data Analysis and Probability, Phoenix, AZ, September 18, 2004

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“Activities for Probability and Statistics” Workshop for Korean High School Teachers, Tempe, AZ, August 5, 6 2004.

Clark, P. & Larsen, S. (2002, July). *Making sense of the unexpected: A framework for analyzing the surprises of classroom activity*. Sixth Conference on Research in Undergraduate Mathematics Education (RUME), Burlington, VT.

Training Attended

Using a Graphing Calculator in the Math Classroom at OSU, September 1997

TA training at ASU, 8 day session, August 2000

Teaching College Algebra at ASU, semester long seminar, Fall 2000

WebWork computer based homework system training, May 2003

Preparing Future Mathematics Faculty (PFMF), two semester program, Fall 2003, Spring 2004

Honors, Awards and Scholarships

Arizona State University

- Outstanding Teaching Assistant Award, Math Department, 2004-2005
- Teaching Excellence Award, GPSA, 2004-2005
- Graduate College Scholarship, Spring 2004
- University Grant – Graduate College, Spring 2003
- Graduate Teaching Assistant Award, Spring 2004

Ohio State University

- Department of Mathematics Undergraduate Certificate of Recognition, 1997
- University College Summa Award for Superior Scholarship, 1997
- Scarlet and Grey Scholarship, 1995
- Mathematics Department Scholarship, 1994
- Dean’s List, 1994-2000

Solon High School

- Ohio High School Athletic Association – Scholar Athlete Award, 1994
- Solon High School Scholar Athlete Award, 1994

Memberships

- Mathematical Association of America
- American Mathematical Society
- Phi Kappa Phi (Scholastic Honor Society)