

# Juliana Bucher

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<http://math.ou.edu/~juliana>

## EDUCATION

- MS (Mathematics), projected: 2017, University of Oklahoma, Norman, OK  
Funding: Graduate Teaching Assistantship
- M.Ed. (Teaching and Learning Theories), 2012, Cameron University, Lawton, OK  
Cumulative GPA 3.8
- B.A. (International Languages), 2009, Cameron University  
4.0 GPA in major, Cumulative GPA 3.7
- B.A. (Mathematics), 1998, Cameron University  
3.8 GPA in major, Cumulative GPA 3.6  
Awarded *Outstanding Mathematics Graduate* by Department Faculty
- B.S. (Computer Science), 1998, Cameron University  
Minor in Foreign Languages  
3.4 GPA in major, 4.0 GPA in minor, Cumulative GPA 3.6

## CURRENT ACADEMIC POSITIONS

Graduate Teaching Assistant, University of Oklahoma, Norman, OK

## COURSES TAUGHT

Mathematics for Elementary Teachers II (*Sp15*)  
Mathematics for Elementary Teachers I (*F14*)  
Introduction to Probability & Statistics I (*Sp13*)  
Precalculus for Business & Social Sciences (*Sp17*)  
Trigonometry (*F15, Sp16, F16*)  
College Algebra (*Sp15, F14, Sp14, F13, Su13, Sp13, F12, Su12*)  
Survey of Mathematics (*Sp15, Sp12*)  
Intermediate Algebra (*Sp15, F14, Su14, Sp13, F12, Sp12, F11, Sp11*)  
Beginning Algebra (*F12, F11*)  
Pre-Algebra (*Su14, Sp12, Sp11*)

## TEACHING-RELATED EXPERIENCE

2013-Pres	Graduate Teaching Assistant, University of Oklahoma, Norman, OK
2015 ( <i>Fall</i> )	Trigonometry Review Instructor, University of Oklahoma, Norman, OK
2011-2015	Instructor/Adjunct Instructor, Cameron University, Lawton, OK
2009-2014	Reading and Math Instructor, Sylvan Learning Center, Lawton, OK [ <i>part-time</i> ]
2014 ( <i>Spring</i> )	College Algebra Review Instructor, University of Oklahoma, Norman, OK
2009 ( <i>Fall</i> )	Discussion Leader on Contrastive Rhetoric for undergraduate TESL course, Cameron University, Lawton, OK
2008-2010	Tutor and Lab Attendant, Foreign Language Learning Center, Cameron University, Lawton, OK
1997-1998	Tutor, Mathematics Lab, Cameron University, Lawton, OK

## SERVICE TO PROFESSION

2016-2017	Equity Working Group, SIGMAA on RUME
2015	Committee Member, Middle Level/Intermediate Mathematics Framework Content Advisory Committee, Oklahoma Commission for Teacher Preparation Office of Educational Quality and Accountability Certification Examinations for Oklahoma Educators
2015	Individual Reviewer, Middle Level/Intermediate Mathematics Framework Review, Oklahoma Commission for Teacher Preparation Office of Educational Quality and

## Accountability Certification Examinations for Oklahoma Educators

### RESEARCH INTERESTS

Resiliency in Mathematics: gaining precision skills through teaching resiliency skills; teaching students to accept mistakes as an essential part of the learning process, rather than hitting an emotional wall of failure.

Mathematics as a Language: using foreign language instructional methods in the mathematics classroom for increased conceptualization and understanding.

Equity in Mathematics: raising the bar for remedial course tracks, in which marginalized groups tend to be over-represented.

### PUBLICATIONS

Berger, A., Grider, R., Bucher, J., Mills-Weis, M., Bozkurt, F. & Savic, M. (2016). RUME- and Non-RUME-track students' motivations of enrolling in a RUME graduate course. In T. Fukawa-Connelly, N. Infante, M. Wawro, & S. Brown (Eds.), *Proceedings of the 19th Annual Conference on Research in Undergraduate Mathematics Education* (pp. 548-550). Pittsburgh, PA. Available online at <http://sigmaa.maa.org/rume/RUME19v3.pdf>.

### OTHER PROFESSIONAL EXPERIENCE

2002-2009	Independent Computer Consultant, Los Angeles, CA and Lawton, OK
2000-2007	Software Engineer, Northrop Grumman, Redondo Beach, CA
1999-2000	Programmer/Analyst, Telos/Xacta, Ashburn, VA
1998-1999	Software Engineer, Advancia, Lawton, OK

### CERTIFICATIONS

2010	Teaching Certificate #406224, Oklahoma State Department of Education Intermediate Mathematics; valid through 6/30/2015, extension in process English as a Second Language; valid through 6/30/2015, extension in process
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### TECHNICAL SKILLS

- Comprehensive understanding of computer technology, derived from years of progressive experience as a software developer, database administrator, system administrator, web server administrator, mail server administrator, network administrator, enterprise manager, and end user.
- Extensive business and accounting systems analysis experience, which includes defining requirements; creating project plans with detailed timelines, project scope, and deliverables; developing detailed technical specifications; and working directly with business groups to understand and address business problems using technology.
- Expert proficiency derived from experience and training in various computing aspects, including Microsoft Office; various operating systems; databases; security; web development; graphics; and financial software.

### LANGUAGE COMPETENCIES

Near-fluent: Spanish  
Intermediate-level: French  
Beginner-level: Arabic, Farsi, Hebrew, Turkish

**ACADEMIC & PROFESSIONAL ASSOCIATIONS**

2012	Sigma Tau Delta English Honor Society
1998	Pi Mu Epsilon Mathematics Honor Society
1996	Phi Sigma Iota Foreign Languages Honor Society
1992	National Forensic League Lifetime Member