

**Margarita V. Magana**  
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## **EDUCATION**

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*Washington State University*

Degree: Doctorate  
Expected Graduation Date: June 2020  
Major: Mathematics and Science Education  
Concentration: English Language Learners

*Washington State University*

Degree: Master of Education  
May 2013  
Major: Educational Psychology

*Washington State University*

Degree: Bachelor of Science (Cum Laude)  
July 2011  
Major: Mathematics  
Emphasis: Secondary Education  
Minor: Engineering  
Certification: Washington State Residency Teaching Credential

*Columbia Basin College*

Degree: Associate of Arts  
June 2008  
Major: Direct Transfer

## **CERTIFICATES**

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Discrimination and Sexual Harassment Prevention training (Completed: August 2019)  
IRB (Renewed: 2019)

## **TEACHING EXPERIENCE**

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*Instructor, Department of Teacher Preparation, Heritage University, Toppenish, WA  
July 2019-Present*

Teach STEM elementary methods courses to teacher candidates in both undergraduate and graduate courses from mostly non-traditional backgrounds from both the Toppenish and Pasco sites.

*High School Mathematics Teacher, Kennewick High School, Kennewick, WA  
August 2014-August 2019*

Teach mathematics courses ranging from below-Algebra material to Financial Mathematics to students from ages 14-20 from diverse backgrounds.

*Course Instructor, Mathematics and Science Education, Washington State University  
June 2017-August 2017*

Teach future educators pursuing a middle-level mathematics endorsement a Probability and Statistics course. Developed and assessed all course materials and readings.

*Graduate Teaching Assistant, McNair Achievement Program, Washington State University  
January 2013-June 2013*

Teach McNair Scholars how to prepare for applying to graduate schools in pursuit of a PhD. Counsel and advise undergraduate students in the McNair Achievement Program.

*Graduate Teaching Assistant, McNair Achievement Program, Washington State University  
May 2012-August 2012*

Teach McNair Scholars a GRE Prep course. Developed and designed a summer undergraduate course to prepare for the GRE exam focusing on the break-down of the Analytical Writing, Quantitative, and Verbal sections.

*Guest Lecturer, College of Education, Washington State University  
August 2012-Present*

Designed and taught courses ranging from learner diversity, lesson planning, and assessment to pre-service teachers in an undergraduate classroom.

*Student Teacher, Pasco High School, Pasco, WA  
August 2011-December 2011*

Teach Algebra 1, Geometry, and Algebra 2 from students ranging from freshman to seniors in high school. Provided were student-centered teaching strategies inside the classroom and dedication and motivation to the advancement of the students outside classroom hours.

*Teaching Assistant, College of Arts and Sciences, Washington State University  
May 2010-August 2010*

Teach an undergraduate course in Pre-Algebra (Math 106) to a group of Upward Bound students from the Spokane area. Student-centered teaching methods were used to facilitate student learning and to accommodate student population due to their frequent traveling, program requirements, and summer course schedules.

## **PROFESSIONAL EXPERIENCE**

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*Tri-Cities Teacher Preparation Program Lead Faculty, Heritage University  
December 2019-Present*

Advise 10-15 undergraduate teacher candidates on their progress toward graduation. Establish practicum and co-teaching placements with local school districts. Support local recruitment efforts as well as community outreach.

*Enrichment Workshop Leader, CalPoly  
June 2018-Present*

Work with 4-10 teachers and teacher candidates to prepare their lesson plan applications of their summer STEM internship experiences to the classroom.

*Family and Higher Education Advocate*

*August 2012-Present*

Volunteer time to working with families and students in the process for applying to higher education institutions through home visits, presentations, and individual meetings. Provide educational resource information and guidance toward the application, financial aid, and other processes involved in higher education and graduate school as well as tutoring services.

*Graduate Student Advisor, Movimiento Activista Social, Washington State University*

*August 2012-August 2013*

Advise and support an undergraduate student group in their pursuance of addressing social issues in the world today. Supervise and advise 8+ students as they develop events, fundraisers, and community-building activities.

*Graduate Assistant, McNair Achievement Program, Washington State University*

*January 2012-August 2013*

Coordinate program activities, facilitate undergraduate and graduate campus visitations, and program outreach and recruitment. Provide website, public relations, and program representation consulting.

*Staff Advisor, Students in Action, Pasco High School*

*August 2011-December 2011*

Advised and supported a high school student group. Supported and facilitated guest speakers, retreats, and community-building activities.

*Undergraduate Teaching Assistant, College of Arts and Sciences, Washington State University*

*August 2009-May 2010*

Held Department of Mathematics first ever held “Study Halls” where I facilitated group study sessions, tutored, and guided students to succeed on homework and exams. Graded homework and scored exams for various instructors. Facilitated exam in the absence of instructors.

*Undergraduate Tutor, Student Support Services, Washington State University*

*August 2009-August 2011*

Tutored students ranging from Introduction to Chemistry to Calculus II. Provided cognitive, study-skills, and conceptual feedback to ensure learning of the subject and of the students’ own learning process.

*Mathematics Tutor, Cougar Athletics, Washington State University*

*May 2010-August 2010*

Tutored Washington State University athletes during their summer program ranging from Business Mathematics to Calculus II.

*Student Mentor, Multicultural Student Services, Washington State University, Pullman, WA*

*August 2009- May 2011*

Mentored and guided 50 students from Washington State University who were Chicano/a or Latino/a in their first year at WSU.

*Student Ambassador, Future Teachers and Leaders of Color, College of Education, Washington State University, Pullman, WA*

*August 2009-May 2011*

Recruited and retained current and future teachers and leaders of color. Organized and planned events for the College of Education as well as represented the college when speaking with potential donors.

*Clerical Assistant, Student Support Services, Washington State University, Pullman, WA*

*August 2008- May 2011*

Provided services to low-income, first-generation, and disabled students at Washington State University in hopes of retaining and recruiting students. Organized and developed events while maintaining confidential files on each student. Spokesman for the program at various presentations, panels, and roundtables.

## **RESEARCH EXPERIENCE**

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*Mathematical Self-Efficacy in Tracked Classrooms, Washington State University*

*Richland, WA*

*January 2017-Present*

Conducting research on students' mathematical self-efficacy and its relationship with the characteristics of the students' tracked mathematics courses. Created, administered, and preliminary analysis of a survey and its results has been completed.

*Wind Speed and Seismic Motion Data Analysis, Laser Interferometer Gravitational Wave Observatory, Cal-Poly STEM Teacher and Researcher Program, Richland, WA*

*June 2014-August 2014*

Conduct an analysis of data collected over eight years in regards to the effects wind speed has on the sensitivity of the laser between the mirrors within LIGO using the Physical Environment Monitoring subsystem data collection software.

*Developing Principles for Mathematics Curriculum Design and Use in the Common Core Era*  
*Richland, WA*

*May 2013-August 2014*

Conducting research on exploring teachers' perceptions of the Common Core State Standards for Mathematics (CCSSM), the alignment between their district-adopted curriculum materials and the CCSSM, local articulation of and support for the implementation of the CCSSM. Coded, analyzed, and written results of the work collected over the first three years of data collection.

*Undocumented Youth and the Pathway to Higher Education, Washington State University,*  
*Pasco, WA*

*August 2012- August 2016*

Conducting research on undocumented youth and their encompassing communities which form a social network of support to help increase upward mobility in social class and high education. Current research efforts are to inform parents of relevant information to provide undocumented youth with an adult social capital to provide a foundational support.

*El Arca International School Teacher Professional Development  
Bogota, Colombia*

*August 2012- August 2016*

Presented at teacher professional development workshops to a variety of teachers ranging from no experience to 10+ years of experience in the classroom. Presented on lesson planning and how to facilitate a classroom environment that encourages learning and engagement.

*Applied Computational Mathematics Engineer and Researcher, Pacific Northwest National Laboratory, Cal-Poly STEM Teacher and Researcher Program, Richland, WA*

*June 2011- August 2011*

Conducted research on dual-phase steels and created mathematical methods to express the microstructures of these steels. Used photo-editing software and MATLAB, a mathematics computational tool, to establish binary images of which mathematical data was extracted and then used to suggest ductility and strength.

*Ronald E. McNair Scholar, Ronald E. McNair Post-Baccalaureate Achievement Program, Washington State University, Pullman, WA*

*August 2009-August 2011*

Conducted a qualitative study using interviewing methods to identify the differences between students who successfully completed College Algebra and those who did not. The students' perspectives provided insight into why they believed they were successful and unsuccessful in College Algebra. This provided the rare perspective of students who had both been successful and unsuccessful.

## **PRESENTATIONS AND CONFERENCES**

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**Vidrio, M.**, Anguiano, C., & Magana, Y.N. (February 2013). Undocumented Youth and the Pathway to Higher Education. Oral Presentation. *9<sup>th</sup> International Globalization, Diversity, and Education Conference: Visualizing Global Problems and Possibilities: Imagining Pedagogies of Transformation*. Vancouver, WA.

Becerra, L. Gutierrez, L., Morales, M.I., Moraga, J.E., **Vidrio, M.** (February 2013). "With Great Power, Comes Great Responsibility": Graduate Students Keeping' the Movement Alive. *9<sup>th</sup> International Globalization, Diversity, and Education Conference: Visualizing Global Problems and Possibilities: Imagining Pedagogies of Transformation*. Vancouver, WA.

Johnson, E., Miranda, M., Torres, L., **Vidrio, M.**, & Anguiano, C. (January 2013). Plantando la Semilla que Apoya la Educación. Oral Presentation. *Helping Parents Achieve Communication (HPAC) Conference*. Pasco, WA.

Johnson, E., Miranda, M., Torres, L., **Vidrio, M.**, & Anguiano, C. (January 2013). Conociendo los Pasos para Financiar la Educación Superior. Oral Presentation. *Helping Parents Achieve Communication (HPAC) Conference*. Pasco, WA.

**Vidrio, M.**, Lui, E., Li, D., Choi, K.S., & Sun, X. (August 2011). Quantitative Characterization of Microstructure Features for 1st Generation Advanced High Strength Steels. Poster Presentation. *2011 STEM Teacher and Research (STAR) Program Closing Conference*. San Francisco, CA.

**Vidrio, M.**, Cooper, S. (July 2011). Understanding Students' Struggles in Entry-Level Mathematics. Oral Presentation. *12<sup>th</sup> Annual McNair Achievement Program Research Symposium*. Pullman, WA.

## **CONFERENCES**

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(March 2011) *Washington State University Multicultural Student Services Cross-Cultural Leadership Conference*. Hosted. Pullman, WA.

(March 2010) *Washington State University Multicultural Student Services Mentor Leadership Conference*. Hosted. Pullman, WA.

## **PUBLICATIONS AND PAPERS**

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Roo, A. K., Ardasheva, Y., Newcomer, S. N., & **Vidrio Magaña, M.** (2018). Contributions of tracking, literacy skills, and attitudes to science achievement of students with varied English proficiency. *International Journal of Bilingual Education and Bilingualism*, 1-17.

Roth McDuffie, A., Drake, C., Choppin, J., Davis, J. D., **Magaña, M. V.**, & Carson, C. (2015). Middle school mathematics teachers' perceptions of the Common Core State Standards for Mathematics and related assessment and teacher evaluation systems. *Educational Policy*, 31(2), 139-179.

Ardasheva, Y., Howell, P. B., & **Vidrio Magaña, M.** (2016). Accessing the classroom discourse community through Accountable Talk: English learners' voices. *TESOL Journal*, 7(3), 667-699.

## **AWARDS**

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**2014** Golden Donut Award- Safety and Security at Kennewick High School

**2010-2011** Student Support Services' Spirit Award

**2009-2010** Washington State University's President's Award

## **ASSOCIATIONS**

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National Council of Teachers of Mathematics

National Science Teachers Association

Kappa Delta Pi International Education Honor Society

Robert Noyce Scholars Program

Ronald E. McNair Post-Baccalaureate Achievement Program