

Johana Elizabeth Thomas Zapata

Graduate Student | Math & Science Ed. Ph.D. Program

Department of Teaching and Learning

College of Education

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EDUCATION

- 2020 – Present **Washington State University** – Pullman, Washington.
 Doctor of Philosophy in Math and Science Education
- 2015 – 2017 **University College Cork** – Cork, Ireland.
 Master in Applied Mathematics and Scientific Computing.
 Thesis: Stochastic Model of protein-protein interaction. Random molecule motion
- 2010 – 2013 **Universidad Pedagógica Francisco Morazán**
[Teaching National University Francisco Morazan] – Tegucigalpa, Honduras.
 Bachelor of Education in Mathematics

RELEVANT TEACHING EXPERIENCE

- August 2022 - Present Washington State University – Pullman, WA.
Teaching Assistant
 - Course taught: Teaching and Learning 352 Mathematics Methods for Elementary Mathematics.
- May – June 2022 Washington State University – Pullman, WA.
Summer Session Faculty
 - Teaching Math 303 - Geometry for the Middle School Teacher course in the Middle Level Mathematics Endorsement program.
 - Activities: lesson planning, assessment, student meetings, and grading.
- Sept 2018 – Aug 2020 Universidad Pedagógica Francisco Morazán
[Teaching National University Francisco Morazan] – Tegucigalpa, Honduras.
Faculty Department of Mathematics
 - Coordinated several co-teaching activities in with the master teacher, which allowed for personal growth.
 - Courses taught: Mathematics, Algebra I, Vectors and Matrices, Numerical Analysis.
- Sept 2018 – Feb 2019 National Autonomous University of Honduras – Tegucigalpa, Honduras.
Consultant in the creation of the Community College in Trujillo, Honduras.
 - Worked on the preliminary research project for the creation of the university technician in vegetable oil processing.

- Conducted research for curriculum adoption led by the academic Direction of Training and Technology.
- Feb 2017 – Dec 2017 University College Cork – Cork, Ireland
Hourly occasional staff, UCC PLUS Program
 - Instructed a variety of courses including Mathematics, Statistics, and Calculus.
 - Provided academic advising.
 - Contributed to various committees and initiatives.
- Feb 2015 - Aug 2015 Instituto Bilingüe Salesiano San Miguel – Tegucigalpa, Honduras
Bilingual Mathematics Teacher 1st – 6th grade
 - Planned and performed elementary mathematics lessons.
 - Organized of parent’s meetings
 - Handled responsibility for team of three people working in the department of mathematics.
- Feb 2014 – Nov 2014 Rosa Agazzi Bilingual School – Tegucigalpa, Honduras
Mathematics Teacher 7th – 11th grade
 - Demonstrated quick and effective decision-making by planning, organizing, and following up with students.
 - Handled responsibility for Math Olympics project.

RESEARCH PROJECTS

- 2020 – Present **Graduate Research Assistant.** *District-Wide Lesson Study to support elementary mathematics curriculum and adoption – Washington State University.*
- 2019 **Research Assistant.** *Mathematics for life - Teaching National University Francisco Morazán.*
- 2018 – 2019 **Research Assistant.** *Analysis of cultural factors that influence afro-descendant and indigenous students' access to careers related to Technology, Science, and Mathematics in Honduran universities.* Teaching National University Francisco Morazán.

PRESENTATIONS AND WORKSHOPS FACILITATED

- Thomas Zapata, J.** (August 2022). Mathematics teachers exploring geometric concepts with hands-on activities. Presentation accepted for the Congreso de Matemáticas Educativa [Conference of Mathematics Education] (COME XI, virtual conference). Tegucigalpa, Honduras.
- Thomas Zapata, J.** (March 2022). *A Garifuna/Afro-Latina perspective of Honduras and the U.S. Culturally Responsive Teaching and Socially Justice practices in Teacher Education.* Workshop accepted for the Alhadeff Future Teachers of Color (AFTOC) 10th annual conference. Washington State University, Pullman, WA.
- Roth McDuffie, A., Blake, N. Graham, M. **Thomas Zapata, J.** (February 2022). *District-Wide K-5 Lesson Study Focused on Student Access and Agency.* Presentation accepted for the Association of Mathematics Teachers Educators (AMTE) Annual Conference. Henderson, NV.
- Thomas Zapata, J.** & Lopez Contreras, E. (October 2021). *Towards the effective manipulation of content in the Virtual Classroom: use of Kahoot and Padlet.* Presentation accepted for the 2do Congreso Anual de la Facultad de Ciencia y Tecnología [2nd Annual Conference in the Department of

- Science in Technology]. Teaching National University Francisco Morazán. Tegucigalpa, Honduras.
- Roth McDuffie, A., Blake, N. Graham, M. **Thomas Zapata, J.** (September 2021). *Elementary Teachers as a Community of Leaders through a Mathematics Curriculum Adoption Process*. Presentation accepted for the Leadership in Mathematics Education (NCSM) Annual Conference. Atlanta, GA.
- Thomas Zapata, J.** and Cáceres, A. (2020). *Patterns, an Approach to Learning Algebra and Developing Mathematical Thinking in Primary School in Honduras*. Poster presented at: English Language Institute; Summer 2020, Syracuse University, 122. <https://surface.syr.edu/eli/122>
- Orellana Lopez, D., **Thomas Zapata, J.**, Cáceres, A. (July 2019). *Repetition Patterns and Boolean Logic*. Presentation accepted for the 33rd Latin American Meeting of Educational Mathematics (RELME 33). La Habana, Cuba.
- Thomas Zapata, J.** and Cáceres, A. (2019). *Mathematical Generalization of Figural and Numerical Patterns and Sequences*. Presentation accepted for the Congreso de Matemáticas Educativa [Conference of Mathematics Education] (COME VIII). Tegucigalpa, Honduras.
- Thomas Zapata, J.** (2018). Boolean Logic Applications and resolution of mathematical puzzles. Presentation accepted for the Congreso de Matemáticas Educativa [Conference of Mathematics Education] (COME VII). Tegucigalpa, Honduras.
- Thomas Zapata, J.** (2017). *HICA-Harmonisation & Innovation in Central American Higher Education Curricula – the case of Honduras*. Conference on Innovation and Educational Inclusion, International Office of University College Cork. Cork, Ireland.

INVITED GUEST SPEAKER

- Pre- and Early-College STEM Education in Theory & Practice*, Spokane Fall Community College, Pullman WA. Third Annual Pullman STEM Summit. (March 2022).
- La actualidad de las mujeres en las matemáticas* [Current situation of women in mathematics: gender gap in the Honduran context], FemSTEM in their campaign “Catrachas-con-Ciencia.” A virtual presentation in Tegucigalpa, Honduras from Pullman, WA. (November 2021). I shared my experience as a Black woman in mathematics. I talked to 60 students and faculty in STEM careers from the National University of Honduras about the importance of women representation in science and mathematics. I described the challenges I have overcome throughout my professional career and encouraged Hondurans women to participate in STEM projects.
- Open Educational Resource, OER*, Washington State University Pullman, WA. (December 2020). I am acknowledged as a contributor on the webbook elaborated for the Spanish language class on the OER project.
- Living and Language Learning Outside One’s Homeland*, Washington State University, Pullman, WA. (October 2020). I was invited as guest speaker in the panel to share my experience as a bilingual international graduate student at WSU. The audience for this panel consists of 20 undergraduate students enrolled in the course, Tch_Lrn 339 - Communicating in Diverse Classrooms. The panel was part of the unit that this class is doing on “language and culture in education. Because the focus of the class was English as a second language/bilingual education, that was also a general focus of the panel.

ADDITIONAL COURSE WORK

- Virtual Pre-academic English Program for Graduate Studies, English Language Institute Syracuse University. (Summer 2020).
- XX International Conference on Science and Research, New York (2018).
- Conference on Innovation and Educational Inclusion, International Office of University College Cork, Ireland (2017)
- First Central American Encounter of Educational Mathematics-ECAME, National Pedagogical University Francisco Morazán. (2012)
- Honduras Global Foundation academic week. (2012)
- Academic English Program-AEP - Ave Maria Language Institute-AMLI, Ave Maria University (2009).

SCHOLARSHIPS AND AWARDS

2020 – 2022	Fulbright-Laspau Scholarship, Bureau of Educational and Cultural Affairs U.S.A.
2022	Susan Gay Travel Scholarship to attend the Twenty-Sixth Annual Conference of the Association of Mathematics Teacher Educators (AMTE, February 2022). (\$ 740).
2019	Faculty Travel Grant to attend International Mathematics Conference [RELME 33: Reunión Latinoamericana de Matemática Educativa, Cuba 2019] (\$500)
2016	Second class honors grade 1, M.Sc. Mathematical Modelling and Scientific Computing
2015 – 2016	Erasmus Mundus Academic Mobility for Inclusive Development of Latin America Scholarship (AMIDILA) – UCC.
2013	First-class honors, National Pedagogical University Francisco Morazán, Honduras
2011 – 2013	Scholarship Universidad Pedagógica Francisco Morazán, Honduras

VOLUNTEERING

2022-2023	<i>International Student Peer Mentor – WSU.</i> Assisting international students in their personal, academic, social, and cultural adjustment to studying and living in the United States and at WSU.
Spring 2022	<i>Engage the World Program presenter – WSU.</i> Sharing their international experience and cultural knowledge with WSU classes, in the local community at public schools and senior centers, and with other community groups.
Summer 2022	<i>Reviewer for Association of Mathematics Teacher Educator (AMTE) Annual Conference.</i>
2016 – 2017	<i>Trocaire – Cork, Ireland.</i> Working in partnership with local development and humanitarian actors, to support people and communities to tackle the root causes of poverty, injustice and violence and to use their own power to create positive and lasting change.

SKILLS

- Proficiency in Microsoft, Windows Office, and AtlasTI (qualitative data analysis software).
- Proficiency in SPSS (quantitative data analysis software).
- Highly detailed and motivated team player.
- Multilingual in Spanish, English and Garifuna (Honduran Indigenous language).

CURRENT PROFESSIONAL ASSOCIATIONS

- Association of Mathematics Teacher Educators – AMTE.
- Organization for Women in Science for the Developing World – OWSD.
- National Council of Teachers of Mathematics – NCTM.