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Texas A&M University

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RESEARCH INTERESTS

Mathematics Education · Educational Video Games · Game-Based Learning in Mathematics

EDUCATION

Ph.D. (2026)	Texas A&M University Department of Teaching, Learning & Culture Major: Curriculum and Instruction emphasis in Mathematics Education
M.S. (2018)	University of Puerto Rico at Mayagüez Department of Mathematics Major: Teaching Mathematics at Secondary Level
B.S. (2015)	University of Puerto Rico at Mayagüez Department of Mathematics Major: Mathematics in Education

PROFESSIONAL EXPERIENCE

Texas A&M University	
2025 – Present	Graduate Research Assistant, College of Performance, Visualization & Fine Arts
2025	Full-Cycle Web Development and Maintenance, EARLY Lab

2022 – 2024	Graduate Teaching Assistant, Department of Teaching, Learning & Culture
2024 Summer	Instructor, Aggie Stem Summer Camp 2024
2024 Spring	Student Technician – Website Administrator, Aggie Stem Summer Camp 2024
2023 Summer	Student Technician – Game Developer and Researcher, LIVE Lab
2022 Summer	Program Aide, Aggie Stem Summer Camp 2022

Ashland University

2020 – Present	Adjunct Mathematics Instructor, Correctional Education Program
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Columbus State Community College

2019 – 2022	Adjunct Mathematics Instructor, Department of Mathematics
2021	Mathematics Instructor, TRIO – Upward Bound Site Program

Certification Management Services

2019	Subject Matter Expert – Mathematics, Heber City, Utah
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Universidad Católica de Puerto Rico at Ponce

2018	Mathematics Instructor, TRIO – Upward Bound Site Program
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Centro Residencial de Oportunidades Educativas de Villalba (CROEV)

2018	Mathematics Teacher, Villalba, Puerto Rico
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Dewey University at Mayagüez

2015 – 2017	Mathematics Instructor, Department of Mathematics
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University of Puerto Rico at Mayagüez (UPRM)

2015 – 2017	Graduate Teaching Assistant, Department Mathematics
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COURSES TAUGHT

MASC351 – Problem Solving in Mathematics, Texas A&M University

EDCI365 – Technology into Classrooms, Texas A&M University

MATH1148 – College Algebra, Columbus State Community College

MATH1146 – College Algebra Plus, Columbus State Community College

MATH1104 – Mathematical Concepts for Business, Columbus State Community College

STAT1350 – Elementary Statistics, Columbus State Community College

MATH100 – Developmental Mathematics, Ashland University

MATE131-1473 – Algebra II, CROEV

MATE131-1480 – Geometry, CROEV

MATE132-1456 – Analytic Geometry, CROEV

MATE100 – Preparatory Mathematics, Dewey University at Mayagüez

MATE101 – Basic Mathematics, Dewey University at Mayagüez

MATE102 – Elementary Algebra, Dewey University at Mayagüez

MATE110 – College Algebra, Dewey University at Mayagüez

MATE3086 – Mathematics Reasoning, University of Puerto Rico at Mayagüez

PUBLICATIONS

Sanders, M., Kwok, M., Gooden, M., **Rivera Rodríguez, E.**, & Parker, D. (2025). Teaching mathematics for creativity: An analysis of pre-service teachers' problem posing and digital mathematical modeling. *Mathematics Education Research and Practice*, 28(2), 121–158.
<https://doi.org/10.7468/jksmed.2025.28.2.121>

PRODUCTS

Rivera Rodríguez, E. (2019) *Learning C#*. https://erirodz.github.io/LearningC-Sharp_web/1_pages/1_home.html

Rivera Rodríguez, E. (2025) *The Eight Coins Problem*. Unity Play.
<https://play.unity.com/en/games/9bba0f8c-2bae-40b1-be7d-95f1ae98ddf4/the-eight-coins-problem>

Rivera Rodríguez, E. (2026, February 4) *The Locker Game (SP26)*. Unity Play.
<https://play.unity.com/en/games/2ea53585-ca74-4f90-8c7d-1263f79495b6/the-locker-game-sp26>

Rivera Rodríguez, E. (Instructor). (2026). The Locker Problem [Course Material].
https://erirodz.github.io/LockerGame_web/

Rivera Rodríguez, E. (2026, February 4) *Jump*. Unity Play.
<https://play.unity.com/en/games/57ede567-2ed4-4012-afad-444b249ccf65/jump>

PRESENTATIONS

Rivera Rodríguez, E., Ortiz-Albino, R. M., (2014, February) *Friend factorization of integers* [Poster presentation]. XXIX Seminario Interuniversitario de Investigación en Ciencias Matemáticas. Ponce, Puerto Rico

Rivera Rodríguez, E. L., Ortiz-Albino, R. M., (2015, March) *Friend factorization of integers* [Conference presentation]. 8th NEA Science Day. Mayagüez, Puerto Rico

Rivera Rodríguez, E. L., Thomas, A., (2023, March 2–4) *Preparing teachers to game the educational*

- system: A scoping review* [Conference presentation]. 50th Annual Conference of the Research Council on Mathematics Learning (RCML). Las Vegas, NV, United States
- Thomas, A., **Rivera Rodríguez, E. L.**, (2023, June 26–28) *Playing to learn or learning to play: Practical strategies for using video games in mathematics classrooms* [Conference presentation]. Conference for the Advancement of Mathematics Teaching (CAMT). Fort Worth, TX, United States
- Rugh, M. S., Chai, D., Chen, Y., Jones, A., Ko, E., Nguyen, S. M., **Rivera Rodríguez, E. L.**, Tanui, L., Tran, S. V., Yost, J., Zipter, A., & Thomas, A. (2023, November 11–15). *Investigating the experiences of faculty, students, and professionals with disaster training and interprofessional education* [Paper presentation]. The 47th Biennial Sigma Nursing Convention. San Antonio, TX, United States
- Rivera Rodríguez, E. L.**, (2024, February 29 to March 2) *Educational video games to have pre-service teachers master mathematics* [Conference presentation]. 51st Annual Conference of the Research Council on Mathematics Learning (RCML). Columbia, SC, United States
- Sanders, M., Gooden, M., Kwok, M., **Rivera Rodriguez, E.**, & Parker, D. (2024, February 6–8) *Preparing preservice teachers to teach mathematics for creativity through problem posing and mathematical modeling* [Conference presentation]. 2025 Annual AMTE Conference. Reno, NV, United States
- Rivera Rodríguez, E. L.**, (2025, March 6–8) *Exploring Pre-Service Elementary Teachers' Experiences with Educational Video Games in Problem-Solving in Mathematics* [Poster presentation]. 52nd Annual Conference of the Research Council on Mathematics Learning (RCML). College Station, TX, United States
- Rivera Rodríguez, E. L.**, (2025, March 26–29) *Math in Motion: Jumping and Motion Mechanics in Video Games* [Conference presentation]. 2025 NSTA National Conference on Science Education in Philadelphia. Philadelphia, PA, United States

FUNDINGS

Professional Development and implementation of educational video games for mathematics and statistics teachers. (2022) PI Thomas, and Grad student Rivera Rodríguez, E. L. Submitted to Spencer Foundation on 12/1/2022, \$50,000

HSI Implementation and Evaluation Project: Game-Based Learning and Implications in Calculus for HSI Students. (2023) PI Thomas, A., CoPIs Miller, D., & Young, J. R., Collaborators Li, Y., & Rugh, M. S., and Grad student Rivera Rodríguez, E. L. Submitted to NSF on 2/8/2023, \$647,170

CERTIFICATIONS

Academy for Future Faculty

Texas A&M University, May 2024

Department of Education of Puerto Rico Teacher's Certificate

Secondary School Mathematics Teacher

Certificate Number: 1048617

Effective Online Teaching

Columbus State Community College, March 2019

PROFESSIONAL MEMBERSHIPS

Columbus State Community College

Mathematics Adjunct Advisory Committee (MAAC)