

Eric L. Rivera Rodríguez

Doctoral Student
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 Rodríguez, 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)