

ÁNGEL M. CARRERAS-JUSINO

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EDUCATION

Ph.D. Mathematics Education, University of Georgia, In progress

M.A. Applied Mathematics, Interamerican University of Puerto Rico, 2010
Thesis: Mathematical Model for a Membrane in 2D

M.Ed. Mathematics Education, Cambridge College, 2009
Thesis: Strategies for Social Development of Gifted Students in High School

B.S. Mathematics Education, University of Puerto Rico, 2002

PROFFESIONAL EXPERIENCE

Graduate Research Assistant, The Center for Latino Achievement and Success in Education (CLASE), University of Georgia, Athens, GA (August 2017 – Present)

- CLASE Tutoring and Mentoring Program Coordinator.
- Support in grants development

Graduate Research Assistant, Department of Kinesiology, University of Georgia, Athens, GA (August 2016 – May 2017)

- Site coordinator and math specialist at the Physical Activity and Learning (PAL) after school program.

Counselor, Athens Tutorial Program's Summer S.T.E.M. Program, Athens, GA (June 2016 – August 2016)

Teaching Assistant, Department of Mathematics and Science Education, University of Georgia, Athens, GA (2011-2016)

- Mathematics Teaching and Curriculum in PreK-5th Grade (Spring 2016)
- Teaching Secondary School Mathematics III (Fall 2014, Spring 2015)
- Teaching Algebra in the Middle School (Spring 2014)
- Teaching Number Systems in the Middle School (Fall 2013)
- Mathematics Methods for Early Childhood Education (Summer 2013)
- Children's Mathematical Learning (Fall 2012, Spring 2013)
- School Practicum in Secondary Mathematics (Spring 2012)
- Teaching and Learning Secondary School Mathematics (Fall 2011)
- Secondary School Mathematics Field Experience (Fall 2011)
- Student Teaching in Secondary School Mathematics (Spring 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015)

Scorer, NCS Pearson Inc., San Juan, PR (May 2012, May 2010)

- Pruebas Puertorriqueñas de Aprovechamiento Académico [Puerto Rican Tests of Academic Achievement]

Middle and High School Mathematics Teacher, Escuela San Germán Interamericana, San Germán, PR (October 2004 – June 2011)

- Classes taught included Pre-Algebra, Algebra, Geometry, Pre-calculus, Probability and Statistics, Number Theory, and Fundamentals of Algebra.
- Coach of Math Team.
- Development and implementation of the mathematics curriculum, proposals, mathematics courses for gifted math students, and the Honor Program.

Instructor of Record, Interamerican University of Puerto Rico, San Germán, PR (August 2010 – December 2010)

- Quantitative Reasoning

Tutor, University of Puerto Rico, Mayagüez, PR (January 2003 – December 2006)

- Remedial Mathematics, Pre-Calculus, Calculus, Differential Equations, and Elemental and Applied Statistics.

Instructor of Record, University of Puerto Rico, Mayagüez, PR (January 2003 – May 2004)

- Remedial Mathematics

PUBLICATIONS

Carreras-Jusino, A. M. (2016). A hypothetical learning trajectory for logarithms. In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli (Eds.), *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (p. 1624). Tucson, AZ: The University of Arizona.

White, D. Y., Keels, K. S., DuCloux, K. K., **Carreras-Jusino, A. M.**, & González, D. A. (2016). Multicultural mathematics dispositions: A framework to unveil dispositions to teach culturally diverse students. In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli (Eds.), *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 759–766). Tucson, AZ: The University of Arizona.

White, D. Y., DuCloux, K. K., **Carreras-Jusino, A. M.**, González, D. A., & Keels, K. (2016). Preparing preservice teachers for diverse mathematics classrooms through a cultural awareness unit. *Mathematics Teacher Educator*, 4(2), 164–187.

Carreras, A., Gómez, C. N., & Pierson Bishop, J. (2013). Using metaphors to explore preservice teachers' beliefs about teaching mathematics. In M. V. Martinez & A. Castro Superfine (Eds.), *Proceedings of the Thirty-Fifth Annual Meeting of the North American Chapter of*

the International Group for the Psychology of Mathematics Education (p. 1267).
Chicago, IL: University of Illinois at Chicago.

PRESENTATIONS

Carreras-Jusino, A. M. (2018, January). *Teaching and learning of logarithms: An arithmetic approach*. Mathematics and Science Education Ph.D. Recruitment Weekend. Athens, GA.

Carreras-Jusino, A. M. (2016, April). *Teaching and learning of logarithms: An alternative approach*. Poster presented at the First Annual EMAT 9640 and ESCI 9630 Presentations. Athens, GA.

González, D. A., **Carreras-Jusino, A. M.**, White, D. Y., DuCloux, K. K., & Tucker, C. (2015, April). *Unveiling preservice teachers' multicultural mathematics dispositions*. Paper presented at the 2015 NCTM Research Conference. Boston, MA.

DuCloux, K. K., White, D. Y., Gonzalez, D. A., & **Carreras-Jusino, A. M.** (2015, February). *Examining the impact of a cultural awareness unit on preservice teachers' multicultural mathematics dispositions*. Paper presented at the Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.

Carreras-Jusino, A. M., González, D., & White, D. Y. (2014, April). *Characterizing Preservice Teachers' Multicultural Mathematics Dispositions*. Poster presented at the COE Graduate Student/Faculty Research Conference. Athens, GA.

White, D. Y., Brunaud-Vega, V. L., & **Carreras-Jusino, A. M.** (2013, April). *Preservice teachers' multicultural mathematics dispositions toward Latino students*. Annual Meeting of the National Council of Teachers of Mathematics. Denver, CO.

White, D. Y., Murray, E., **Carreras-Jusino, A. M.**, & Gonzalez, D. (2013, April). *Understanding Facilitator Moves During Common Mathematics Planning Meetings*. Research Pre-session of the annual meeting of the National Council of Teachers of Mathematics. Denver, CO.

Carreras-Jusino, A.M. (2009, October). *Secciones Cónicas: De lo Concreto a lo Abstracto* [Conic Sections: From Concrete to Abstract]. Primer Congreso de Maestros de Matemáticas y Ciencias. Rio Grande, PR.

RESEARCH

[2016-2017] **Generalization Across Multiple Mathematical Areas (GAMMA)**

In this project, processes of mathematical generalization in discrete and continuous contexts are studied. In particular, we are exploring how middle school, high school, and college students make mathematical generalization in algebra, calculus, discrete mathematics, and combinatorics by engaging with them in teaching experiments.

[2012-2016] Multicultural Mathematics Dispositions (MCMD)

In this project, preservice teachers' dispositions toward culturally diverse students are investigated. Particularly, their dispositions in terms of the three MCMD constructs which are openness, self-awareness, and commitment are evaluated. We look for evidence of these constructs in data collected from the implementation of a cultural awareness unit, designed by the research group, in preservice teachers' mathematics method courses.

[2012-2013] Improving Students' Mathematical Achievement through a Professional Learning Community (ISMAC)

In this project, conversations between mathematics teachers and facilitators during common planning meetings are analyzed. Particular attention is paid to the ways in which teachers talk about student thinking and how these conversations evolve in terms of content and depth as the facilitators encourage the teachers to focus their attention on important mathematical ideas and associated pedagogical opportunities, issues, and challenges.

HONORS AND AWARDS

Outstanding Teaching Assistant Award, University of Georgia, 2015

Kappa Delta Pi International Honor Society in Education Inductee, 2014

Ph.D. Scholar of Excellence Award, University of Georgia, 2011 and 2012

Teacher of the Year, Escuela San Germán Interamericana, 2006

PROFESIONAL ACTIVITIES AND SERVICES

Journal Reviewer

- *The Mathematics Educator*, 2014-Present

Conference Proposal Reviewer

- North American Chapter of the International Group for the Psychology of Mathematics, 2016
- National Council of Teacher of Mathematics Research Conference, 2016

Service to Professional Organizations

- Treasurer, Mathematics Education Student Association, University of Georgia, August 2012 – May 2014

Community Service

- Spanish interpreter for parent-teacher conferences at Clarke County School District, Athens GA
- Volunteer for the CLASE Tutoring and Mentoring program, an enrichment program targeting third to fifth grade English learners, January 2016 – May 2016