

Tamara Anthony Carter

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EDUCATIONAL EXPERIENCE

- Ph.D., **Texas A&M University**, 2005 – College Station, Texas
Ph.D. in Curriculum and Instruction with emphases in Mathematics Education and Educational Research, Dissertation “Knowledge and Understanding of Probability and Statistics Topics by Pre-service K-8 Teachers” under the direction of Dr. Gerald O. Kulm, Curtis D. Robert Professor of Mathematics Education.
- M.S., **Texas A&M University**, 1999 – College Station, Texas
M.S. in Mathematics.
Distance Learning Certification, **Center for Technology and Distance Learning**, 1998 – Conroe, Texas
- M.A., **Rice University**, 1995 – Houston, Texas
M.A. in Computational and Applied Mathematics, Thesis “An Introduction to Linear Algebra: A Curricular Unit for Pre-Calculus Students” under the direction of Dr. Richard A. Tapia, Noah Harding Professor of Computational and Applied Mathematics and Dr. Anna Papakonstantinou.
- B.A., **Rice University**, 1994 – Houston, Texas
B.A. in Computational and Applied Mathematics.

STATE LICENSURE

- Teaching Certificate, **State Board for Educator Certification**, Austin, Texas
Lifetime Texas Secondary School Teaching Certificate in mathematics and computer information systems.

TEACHING AND ADMINISTRATION EXPERIENCE

- 2014 – present* **Texas A&M University**
Instructional Associate Professor of Mathematics (2020 – present)
Instructional Assistant Professor of Mathematics (2014 – present)
Taught Math 365, 366, 367, 140, 166, 167, and ASCC 001 to accompany Math 167.
- 2005 – 2014* **Oklahoma City Community College**
Professor of Mathematics (2013 – 2014)
Director of the Mathematics Department
Acting Dean of Science and Mathematics (2007 Fall)
Mathematics Department Co-chair (2006 – 2007)
Professor of Mathematics (2005 – 2007)
- 2004 – 2005* **Texas A&M University**, Mathematics Education Adjunct Instructor
- 2001 – 2003* **University of North Texas**, Mathematics Lecturer
- 1999 Summer* **Texas A&M University**, Mathematics Adjunct Instructor
- 1999 – 2001* **University of North Texas**, Mathematics Instructor
- 1999 – 2000* **Texas Woman’s University**, Mathematics Instructor
- 1995 – 1999* **North Harris Montgomery Community College District** (renamed Lone Star College),
Associate Professor of Mathematics (1997 – 1999)
Adjunct Mathematics Instructor (1995 – 1997)
- 1995 – 1997* **Tomball High School**, Mathematics Teacher

RECENT HONORS AND AWARDS

- 2021-2022 IDEATE Faculty Fellow
 2017 Outstanding Service Award, Department of Mathematics, Texas A&M University
 2015 Outstanding Teaching Award, Department of Mathematics, Texas A&M University

PROFESSIONAL SERVICE (limited to recent activities)

- 2022-present Core Curriculum Coordinator for the Department of Mathematics
 2016-present Academic Professional Track Faculty Campus Committee
 2023 APT Faculty Hiring and Reclassification Guidelines Task Force
 2023 Co-chair of Subcommittee I&T (Instructional and Tenure)
 2021-2023 Member of Subcommittee I&T (Instructional and Tenure)
 2020-2022 Member of the Faculty Advisory Council to the Dean of the College of Science
 2018-2021 Member of the National Science Foundation's College of Reviewers for Undergraduate Education
 2017-2022 Mathematics and Statistics Fair Organizer
 2015-2022 Mathematics Outreach Committee
 2018 Reviewer for EURASIA Journal of Mathematics, Science and Technology Education
 2016-2018 Academic Professional Track Mathematics Committee
 2014, 15, 17 Panel Reviewer for National Science Foundation
 2017 Reviewer for School Science and Mathematics Journal
 2016 Math Fair Art Room Organizer
 2016 Texas A&M Math Circle presenter for Beginning and Intermediate groups
 2016 Panelist on "Careers in Mathematics" for Texas A&M's chapter of Association for Women in Mathematics
 2015 – 2016 Core Curriculum Review lead for Math 167
 2015 Rubric Committee for Mathematics for Core Curriculum assessment, Critical Thinking subcommittee

SELECTED PUBLICATIONS

- Zientek, L. R., Carter, T.A., Taylor, J. M., Capraro, R. M. (2011). Preparing prospective teachers: An examination of attitudes toward statistics. *The Journal of Mathematical Sciences and Mathematics Education*, 5, 25-38.
- Capraro, R. M., Capraro, M. M., Harbaugh, A. P., & Carter, T. A., (2010). Understanding, Questioning, and Representing: What Makes a Difference Mathematically in Middle-School Classrooms? *Research in Middle Level Education Online*, 34(4). Retrieved from <http://www.tandfonline.com/toc/umle20/34/4>
- Carter, T.A. (2008). Preservice Teacher Knowledge and Understanding of Probability and Statistics. In G. Kulm (Ed.), *Teacher knowledge and practice in middle grades mathematics* (pp. 67-85). Rotterdam, The Netherlands: Sense.
- Piccolo, D., Carter, T. A., Harbaugh, A.P., Capraro, M. M., Capraro, R. M. (2008). Quality of Instruction: Examining Discourse in Middle School Mathematics Instruction. *Journal of Advanced Academics*, 19, 376-410.
- Carter, T. A., & Dean, E. O. (2006). Mathematics Interventions for Grades 5-11: Teaching Mathematics, Reading, or Both? *Reading Psychology*, 27, 127-146.
- Carter, T. A., & Capraro, R. M. (2005). Stochastic misconceptions of pre-service teachers. *Academic Exchange Quarterly*, 9, 105-111.
- Carter, T. A., Tapia, R. A., & Papakonstantinou, A. (online). *An introduction to linear algebra: A curricular unit for pre-calculus students*. Retrieved October 25, 2004, from <http://ceee.rice.edu/Books/LA/>