
Craig Stuart McCarron, Ph.D.
Instructional Assistant Professor
Texas A&M University – San Antonio
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Education

- Ph.D. Mathematics Education, Teachers College, Columbia University, 2011.
Dissertation: *Comparing the Effects of Metacognitive Prompts and Contrasting Cases on Transfer in Solving Algebra Problems*
- Ed.M. Math and Science Education, Harvard Graduate School of Education, 1991.
- A.B. Mathematics, Princeton University, 1984.
Senior Thesis: *Analysis of Cellular Automata*

Teaching Experience

- Instructional Assistant Professor, Texas A&M University – San Antonio (2023 - present), San Antonio, Texas.
- Mathematics Teacher, Medina Valley High School (2021 – 2023) Castroville, Texas.
- Associate Professor, University of the Incarnate Word (2012 - 2021), San Antonio, Texas.
- Assistant Professor, Texas Tech University (2010 - 2012), Lubbock, Texas.
- Mathematics and Science Teacher, Duneland Alternative Learning Center (2009), Chesterton, Indiana.
- Adjunct Mathematics Instructor, Texas A&M University – Corpus Christi (2008), Corpus Christi, Texas.
- Adjunct Instructor, Teachers College, Columbia University (2007), New York, New York.
- Graduate Teaching Assistant, Teachers College, Columbia University (2005 - 2006), New York, New York.
- Adjunct Instructor, Fashion Institute of Technology, State University of New York (2005), New York, New York.
- Mathematics Instructor, University of Southern Indiana (1996 - 2005), Evansville, Indiana.
- Head Swimming Coach, Valparaiso and Mount Vernon, Indiana (1991 - 1996).
- Mathematics Teacher, Valparaiso High School (1991 - 1994), Valparaiso, Indiana.

Professional Experience: United States Army Officer 1984 – 1990

- Rose from Second Lieutenant to Captain
- Commanded units up to 130 personnel
- Responsible for care of equipment as much as \$100M
- Responsible for annual budgets as high as \$6M

Teaching in Detail: Courses Taught
Medina Valley High School: 2021-present

Courses Taught:

- Dual Credit MATH 1314 College Algebra
- Dual Credit MATH 1342 Elementary Statistics
- College Prep Mathematics

University of the Incarnate Word: 2012-2021

Courses Taught:

- College Algebra
- Finite Mathematics (Liberal Arts alternative to College Algebra)
- Precalculus
- Linear Algebra
- Mathematics for Elementary Teachers I and II
- Integrated Mathematics and Science Pedagogy for Elementary Teachers
- Physical Science for Elementary Teachers
- Geometry and Proofs
- Mathematics Content and Pedagogy, K-5 (graduate)
- Integrated Mathematics and Science Pedagogy, K-5 (graduate)
- Discrete Mathematics
- Abstract Algebra
- Introduction to Number Theory

Texas Tech University: 2010-2012

Courses Taught:

- Middle Level Integrated Mathematics and Science Methods
- Secondary Curriculum Planning, Development, and Evaluation
- Secondary Instructional Methods

Teachers College, Columbia University: 2005-2007

Courses Assisted:

- Discrete Dynamical Systems Professor Henry Pollak
- Linear Models and Experimental Design Professor James Corter
- Mathematics Teaching and Learning Professor Bruce Vogeli

Course Taught:

- Linear Models and Experimental Design

Fashion Institute of Technology, State University of New York: 2005

Courses Taught:

- Geometry and the Art of Design
- Mathematical Ideas

Texas A&M University – Corpus Christi: 2008

Course Taught:

- Calculus I

University of Southern Indiana, Evansville, Indiana: 1996 – 2005

Courses Taught:

- Intermediate Algebra
- Survey of Mathematics
- College Algebra
- Trigonometry
- Precalculus
- Computer Science for Teachers
- Calculus I

Scholarly Contributions

- McCarron, C. S., & Baker, J. (2019). Mechanics of Large Assessments: What We Wish We'd Known Five Years Ago. *SACSCOC Annual Meeting*.
- McCarron, C. S., Baker, J., & Ku, W. (2018). Managing Large Assessments: What We Wish We'd Known Four Years Ago. *The Southern Association of Colleges and Schools Commission on Colleges Annual Meeting*.
- Casola, P. A., & McCarron, C. S. (2017). A Comparison of Belgian and Texan Elementary School Mathematics and Science. *UIW Research Symposium, Poster Session*.
- McCarron, C. S., Stampfl, T., & Hall, S. (2016). Building Faculty Engagement in the QEP Using a Research Muse. *SACSCOC Annual Meeting*.
- McCarron, C. S. (2014). The Effect of Contrasting Examples on Transfer in Algebra Problem Solving. *UIW Research Symposium, Poster Session*.
- McCarron, C. S., Tek, S., & Ku, W. (2020). *Teaching Remotely with Zoom*. Center for Teaching and Learning Workshop, San Antonio, Texas.
- McCarron, C. S. & Ku, W. (2018). *Discuss a Journal Article in depth*. Invited presentation at Center for Teaching and Learning Workshop, San Antonio, Texas.
- McCarron, C. S., Tek, S., & Beltrami, J. (2017). *They Should Already Know That: The Puzzle of Transfer*. Invited presentation at Center for Teaching and Learning Workshop, San Antonio, Texas.
- McCarron, C. S. (2016). *What's the Point of PowerPoint?* Invited presentation at Center for Teaching and Learning Workshop, San Antonio, Texas.
- Partridge, T., Hall, S., & McCarron, C. S. (2016, August). *Questions in the Classroom*. Invited presentation at UIW Part-Time Faculty Workshop, San Antonio, Texas.
- McCarron, C. S. (2001). *Teaching Technical Reading Skills*. Southwest Indiana Council of Teachers of Mathematics, Evansville, Indiana.

- McCarron, C. S. (1999). *Using the Internet for Mathematics Enrichment*. Southwest Indiana Council of Teachers of Mathematics, Evansville, Indiana.
- McCarron, C. S. (1998). *Getting Students to Participate in Mathematics*. Southwest Indiana Council of Teachers of Mathematics, Evansville, Indiana.
- McCarron, C. (2007). *Geometry and Measurement. Houghton- Mifflin Mathematics, Grade 1*. Boston: Houghton-Mifflin Company.
- McCarron, C. (2007). *Geometry and Measurement. Professional Development Handbook Grade 1*. Boston: Houghton-Mifflin Company.
- McCarron, C. (2012). Applied Cognitive Science: Mentoring through scaffolds. *S. Myers & Anderson, C. (Eds.), Dimensions in Mentoring*. Rotterdam: Sense Publishers.
- McCarron, C. S. & Partridge, T. T. (2018). *Enhance Student Learning Using Frequent Low-Stakes Assessments*. Lilly Conference, Austin, Texas.
- Stampfl, T., Hall, S., & McCarron, C. S. (2017). *Successfully Tackling Writing in Business and the Sciences*. Lilly Conference, Austin, Texas.
- Mallen, V. & McCarron, C. S. (2019). *The High School Discrete Mathematics Course: Teaching the Graph Theory Unit*. Conference for the Advancement of Mathematics Teaching (CAMT) 2019, San Antonio, Texas.
- McCarron, C. S. & Tek, S. (2019). *How Will our Graduates Teach High School Mathematics Electives?* Conference for the Advancement of Mathematics Teaching (CAMT) 2019, San Antonio, Texas.
- McCarron, C. S., Garcia, R., Mallory, D., & Smith, B. (2018). *Build a Scale Model of the Solar System*. Conference for the Advancement of Mathematics Teaching (CAMT), Houston, United States of America.
- McCarron, C. S. & Horner, H. (2017). *When to Put the Manipulatives Away*. Conference for the Advancement of Mathematics Teaching (CAMT), Ft. Worth, Texas.
- Garcia-Wukovits, F. & McCarron, C. S. (2016, July). *Fun With Polar Equations*. Conference for the Advancement of Mathematics Teaching (CAMT), San Antonio, Texas.
- McCarron, C. S. (2015). *How to make and use Base Five Blocks for elementary teacher preparation*. Texas Section Meeting of the Mathematical Association of America, San Antonio, Texas.
- McCarron, C. S. (2014). *A Hatful of Mathematics Enrichment Activities*. Conference for the Advancement of Mathematics Teaching (CAMT), Fort Worth, Texas.

Honors/Awards

- 2020: School of Mathematics, Science, and Engineering Award for Teaching Excellence, University of the Incarnate Word.
- 2016: Mother Columkille Colbert Award for Service, University of the Incarnate Word.
- 2001: H. Lee Cooper Core Curriculum Teaching Award, University of Southern Indiana.
- 1996: Southwest Indiana Swim Conference Coach of the Year, Mount Vernon, Indiana.
- 1990: Army Medals for Exceptional Performance, U.S. Army.
- 1984: John Alan Swabey Memorial Trophy, Princeton University Swimming Team.