

Justin Robert Hill

1001 Leadership Place
Killeen, TX 76549

Education

Ph.D. in Mathematics, University of Cadiz (Spain) Expected: August 2016
Topology, Functional Analysis
Advisor: Dr. F.J. Garcia-Pacheco; garcia.pacheco@uca.es

Masters of Science in Mathematics, Texas A&M-Central Texas December 2011
Major GPA: 4.0; Overall GPA: 3.88
Advisor: Dr. Christopher Thron; thron@ct.tamus.edu

Bachelor of Arts in Mathematics, University of Florida May 2007
Major GPA: 3.26; Overall GPA: 3.06

Teaching Experience

Developmental Mathematics Instructor (Full-Time), Temple College August 2014-Present

- Teach all levels of Developmental Mathematics and College Algebra.
- Create all lesson plans and tests except for the Finals.
- Use MyMathLab for online homework assignments.
- 67% of my students overall pass.
- Tutor in the MathLab.

Developmental Mathematics Instructor (Adjunct), Central Texas College October 2011-May 2014

- Taught Developmental Mathematics 1, 2 and 3.
- Created all lesson plans and all tests except for the Finals.
- Used MyMathLab for online homework assignments.
- 80% of my students overall passed.
- 75% of the students who passed my Developmental 3 class passed College Algebra the first time through.

Adjunct Faculty/Graduate Teaching Assistant, Texas A&M-Central Texas June 2010-May 2014/
January 2016-Present

- Taught Math Concepts 1 and 2, Survey of Mathematics, Discrete Mathematics, Number Theory, and Abstract Algebra
- Created all lesson plans, homework and tests for all classes taught.
- Co-wrote an Abstract Algebra textbook for students certifying as Secondary Mathematics Teachers with Dr. Christopher Thron (see next page)
- Used online components such as MyMathLab and Blackboard.
- 99% of my students passed, with 2/3 earning an A or B.

Geometry Teacher, Temple Independent School District August 2008-November 2009

- Created or co-created all lessons, quizzes, and tests.
- Tutored Geometry and Algebra four days a week after school.
- 75% of my students passed.

Tutoring Experience

Personal Math Tutor, Killeen, TX

December 2007-Present

- Tutored individuals in Arithmetic, Algebra I and II, Geometry, Statistics, Pre-Calculus and Calculus.
- Tutored individuals for quantitative sections of the ASVAB, THEA, GRE, GMAT, HESI, ACCUPLACER and TAKS tests.
- All but two of my students have passed their class, with an average two letter grade increase
- All but two of my students have passed their test, approximately 90% in one retake.

Mathematics Tutor, Texas A&M-Central Texas

January 2010-May 2010

- Tutored undergraduate students in Abstract Algebra, Linear Algebra, Statistics, Algebra, and Geometry.

Publications

- Justin Hill, Chris Thron, et al.: "Elementary Abstract Algebra: Examples and Applications." *Lulu* 2015. PDF copy available at <https://www.tamuct.edu/departments/math/textbook.php>
- F.J. Garcia-Pacheco and J.R. Hill: "Advances on Ricceri's most famous conjecture." *Filomat* 29:4 (2015), 829–838.
- F.J. Garcia-Pacheco and J.R. Hill: "A partial positive solution to a conjecture of Ricceri." *Topological Methods in Nonlinear Analysis* Volume 46, No. 1, 2015, 57–67.
- Contributing editor to McGraw-Hill's LearnSmart supplement to Rosen's "Discrete Mathematics and It's Applications."
- Contributing editor to the glossary of "Reasoning with Functions 1" curriculum by the Dana Center, UT-Austin.

Awards

Most Valuable Graduate Student, Texas A&M-Central Texas, Mathematics Dept.

May 2011

Recognition

<http://www.ratemyprofessors.com/ShowRatings.jsp?tid=1690335>

Volunteer Experience

Vice President, Helping Hands With Love (serving St. Louis du Nord, Haiti); Homeless Dinner, staff member (Gainesville, FL); Orlando Urban Plunge; Hurricane Katrina Clean-Up; Jackson Mississippi Service Trip; New Orleans Service Trip; Immokalee Service Trip