Curtis W. Graham

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Education

Ph.D. in Mathematics — August 2015
Department of Mathematics, Baylor University; Waco, TX
Thesis Advisor: Dr. Klaus Kirsten

B.S. in Mathematics Education — December 2007
Department of Mathematics, Abilene Christian University; Abilene, TX

Professional Experience

Tenure-Track Assistant Professor — 2017-Present
Department of Mathematics, University of Mary Hardin-Baylor

Visiting Assistant Professor — 2016-2017
Department of Mathematics, University of Mary Hardin-Baylor

Lecturer — 2015-2016
Department of Mathematics, Baylor University

Teacher of Record (Graduate Student) — 2010-2015
Department of Mathematics, Baylor University

Private Tutor — 2009-2015
Department of Mathematics, Baylor University
Assisted students in subjects including Precalculus, Calculus II, and Ordinary Differential Equations.

Bridge to Calculus Online Tutor — 2014, 2015
Department of Mathematics, Texas A&M University
Taught a one-week online course designed to prepare students for Calculus I.
Experience using a Bamboo Pad and TTVN WebMeeting for online presentations.

Teaching Assistant — 2009-2010
Department of Mathematics, Baylor University
Tutor and grader for the following courses: Precalculus, Calculus I, Linear Algebra, and Ordinary Differential Equations.

High School Teacher — 2008-2009
Wylie High School, Abilene, TX

Substitute Teacher — 2008
Abilene Independent School District

Student Teacher — Fall 2007
Cooper High School, Abilene, TX

Teaching Assistant and Tutor — 2003-2007
Department of Mathematics, Abilene Christian University
Graded and tutored for undergraduate courses ranging from Precalculus to Linear Algebra.

Courses Taught

University of Mary Hardin-Baylor   2016-Present
    Quantitative Reasoning, College Algebra, Precalculus, Calculus I, Calculus II, Calculus III, Ordinary Differential Equations, Partial Differential Equations, Seminar (MATH 3391): Complex Variables

Baylor University   2010-2016
    Business Precalculus, Precalculus, Business Calculus, Linear Algebra, Calculus I, Calculus II, Calculus III

Abilene Wylie High School   2008-2009
    Algebra I

Research Interest

Complex Analysis, Mathematical Physics, and a secondary interest in Numerical Linear Algebra.

Publications

Functional Determinants for Laplacians on Annuli and Elliptical Regions
    with B. Streit and K. Kirsten; Journal of Mathematical Physics, **59**, 013508 (2018).

Boundary Condition Dependence of Spectral Zeta Functions
    Doctoral Thesis.

Spectral Functions for Regular Sturm-Liouville Problems
    with G. Fucci and K. Kirsten; Journal of Mathematical Physics, **56**, 043503 (2015).

Presentations

Functional Determinants for Laplacians on Annuli and Elliptical Regions
    Texas Analysis and Mathematical Physics Symposium at Baylor University (2018)

The Analytic Continuation of the Spectral Zeta Function
    YMN/Project NExT Poster Session, Joint Mathematics Meeting, San Antonio, TX (2015)

Curves of Constant Width (Undergraduate Research)
    Texas/Oklahoma Regional Undergraduate Symposium (2007)

Undergraduate Research

ATP production in Mitochondria, presented by Christine Lee
    STEM Day Student Symposium, UMHB (2017)

Mentored the following students in their Senior Seminar projects.
    Christine Lee (2018), Rebecca Macias (2018), George Guo (2018)

Professional Development and Memberships

Mathematical Association of America, Member   2017-Present

Kappa Mu Epsilon, Mathematical Honor Society, Member   2017-Present

Texas NExT Fellow   2017-2019
  A two-year program sponsored by the Mathematical Association of America (MAA)
  for new and recent graduates with doctorates in mathematical sciences who are
  interested in improving teaching and understanding of undergraduate mathematics.

Using Modeling Scenarios for Teaching Differential Equations   2018
  A mini-course offered during the Mathematical Association of America's MathFest
  in Denver, Colorado.

Learning Covenant Teaching Academy   2018
  A semester-long course on pedagogy offered to new faculty at the University of
  Mary Hardin-Baylor.

American Mathematical Society, Member   2009-2015

Mathematical Sciences Research Institute (MSRI)   2014
  Awarded a grant to attend the "Geometry and Analysis" summer graduate school
  in Berkeley, California.

Seminar for Excellence in Teaching   2010
  Pedagogical training offered to graduate student teachers of record at Baylor
  University.

Professional Service

Department Chair   2018-Present
  Department of Mathematics, University of Mary Hardin-Baylor

Program Coordinator   2018-Present
  Department of Mathematics, University of Mary Hardin-Baylor

Professional Growth and Recognition, Committee Member   2018-Present

Puzzle of the Week Competition   2018-Present
  Department of Mathematics, University of Mary Hardin-Baylor
  Founded and organized a competition designed to reward undergraduate students
  for solving challenging math puzzles.

Delta Psi Theta, Faculty Sponsor   2016-Present
  The University of Mary Hardin-Baylor math club provides opportunities for stu-
  dents to attend conferences, and enjoy a variety of scholarly and social activities.

Admissions and Financial Aid, Committee Member   2017-2018

Puzzle of the Week Competition   2014-2015
  Department of Mathematics, Baylor University
  Founded and organized a competition designed to reward undergraduate students
  for solving challenging math puzzles, and provide valuable work experience to grad-
  uate students.