

PRESTON WALKER, Ph.D.

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EDUCATION

- Ph.D.** The University of Wisconsin at Milwaukee, Milwaukee, WI August 2016 – December 2020
Mathematics
- M.S.** The University of Texas at San Antonio, San Antonio, TX August 2012 – May 2014
Mathematics
- B.S.** Texas State University, San Marcos, TX August 2008 – May 2012
Mathematics, *magna cum laude*
Minor in Education

TEACHING EXPERIENCE

- Trinity College**, Hartford, CT June 2023 – Present
- **Visiting Assistant Professor** – Taught a variety of undergraduate mathematics courses including Quantitative Literature courses.
- The University of Wisconsin at Milwaukee**, Milwaukee, WI August 2016 – May 2020
- **Graduate Teaching Assistant** – Taught courses varying from remedial mathematics to Calculus. Worked alongside course coordinators to develop course lectures and exams.
- Northwest Vista College**, San Antonio, TX August 2014 – May 2016
- **Lecturer** – Taught College Algebra to classes of 20-30 students of varying tracks (Precal track intended for STEM majors). Developed course lectures and homework exercises. Participated in Cooperative Learning workshop given by college to enhance teaching methods. Substituted for faculty in a variety of courses up to Calculus.
- The University of Texas at San Antonio**, San Antonio, TX August 2012 – May 2014
- **Graduate Teaching Assistant** – Worked alongside mathematics faculty to teach calculus labs to classes of 30-40 students. Assisted in managing the mathematics tutoring lab. Tutored students individually and in groups as well as proctored exams and quizzes. Lectured when professor was out of town.
- Mathnasium**, San Antonio, TX May 2012 – August 2013
- **Tutor** – Tutored students in mathematics from elementary- to college-level. Supervised and tutored up to 8 students simultaneously. Tracked students' performance by administering tests.
- Earl Warren High School**, San Antonio, TX January 2012 – May 2012
- **Student Teacher** – Took on responsibilities of high school mathematics teacher. Taught pre-calculus and calculus courses to junior and senior level high school students. Developed and administered quizzes and tests.
- Private Tutor**, Texas August 2011 – Present
- **Tutor** – Tutored various students one-on-one in person as well as online via Skype in mathematics subjects ranging from elementary- to college-level.

Tutor.com, Online

August 2011 – May 2012

- **Mathematics Tutor** – Tutored students one-on-one online through Tutor.com software in mathematics from elementary- to college-level.

Texas State University, San Marcos, TX

August 2009 – December 2011

- **Undergraduate Teaching Assistant** – Worked alongside mathematics faculty to teach calculus labs. Proctored exams and graded quizzes. Lectured when professor was out of town.
- **Tutor** – Tutored college students in various levels of mathematics.

VOLUNTEER ACTIVITIES

Kinetic Kids

September 2014

- **Volunteer** – Volunteered for Field Day event in the summer season; set up and directed the obstacle relay station; supported children physically and mentally in completing the course safely and to the best of their ability.

Texas Math and Science Coaches Association State Meet

March 2013

- **Volunteer Proctor** – Volunteered in proctoring exams for statewide mathematics competition for high school students.

Egophony a capella

August 2012 – December 2014

- **Tenor/Baritone** – Egophony is a student-led a capella group that performs yearly at Night of the Arts, annual arts benefit for The University of Texas Health Science Center at San Antonio's Student-Run Free Clinics, as well as performs for patients at Methodist Children's Hospital, University Hospital, and nursing home residents at Morningside Manor.

RESEARCH

Thesis for Ph.D. at University of Wisconsin at Milwaukee

August 2018 – December 2020

- **Dissertator** – Alongside my advisors, Dr. Lijing Sun and Dr. Hans Volkmer, found the Asymptotic expansions of the L_2 norms of the solutions to the Heat equation and Dissipative Wave equation on the Heisenberg group. Research was presented and published in December 2020 for completion of doctorate degree.

Research for Undergraduates Summer Institute of Statistics (RUSIS)

June 2011 – July 2011

- **Undergraduate Researcher** – Participated in an 8-week paid summer undergraduate research program under the direction of statistician, Dr. Javier Rojo. Took intensive courses in probability and statistical inference. Learned how to use Mathematica and R. Collaborated research project focused on creating an efficient algorithm to compute the probability of failure of a radial lifeline system. Research was presented at poster presentation at Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS) 2011.

HONORS & AWARDS

Houston Louis Stokes Alliance for Minority Participation (H-LSAMP), Scholar, 2010-2012

PROFESSIONAL SOCIETY MEMBERSHIPS

Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS), 2011 – 2012

PRESENTATIONS

Analysis Seminar, University of Wisconsin Milwaukee

Milwaukee, Wisconsin December 2020

Asymptotic expansions of the L_2 norms of the solutions to the Heat equation and Dissipative Wave equation on the Heisenberg group

Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS)

San Jose, California, October 2011

Optimizing Algorithm for Reliability Assessment of Radial Lifeline Systems

Undergraduate Research Conference, Texas State University

San Marcos, Texas, December 2011

Optimizing Algorithm for Reliability Assessment of Radial Lifeline Systems

INTERESTS

Cooking, especially TexMex cuisine, and hosting potluck dinners; Enjoy PC gaming and game development; Spending time with my family and dogs; Swing dancing; Traveling