

Khing Zar Win

Education and Research

Master of Science in Mathematics

August 2015 Texas Woman's University Denton, TX

Master's Thesis: "*Elliptic Curves and Cryptography*"

The major goal of the thesis is to explore elliptic curves and elliptic curve cryptography (ECC). The thesis includes topics from abstract algebra, such as groups, rings, and fields, public-key cryptography, discrete logarithm, Diffie-Hellman key exchange, and implementation of ECC.

Advisor: Dr. Junalyn Navarra-Madsen

Bachelor of Arts in Mathematics

May 2012, Cum Laude University of North Texas Denton, TX

Texas Teaching Certification

Spring 2012 Professional Pedagogy and Mathematics 8-12

Experience

High School Teacher

August 2015 – Present Emmett J. Conrad High School, Dallas ISD Dallas, TX

August 2012 – August 2013

- Classes taught: Algebra I, Algebra II, Geometry and ESL Geometry
 - Taught a diverse student population: 30% refugees, 90% economically disadvantaged
 - Sponsor: Burmese Students Club, Multicultural Club, Academic Decathlon
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Graduate Teaching Assistant

Fall 2014 – Spring 2015 Texas Woman's University Denton, TX

- Taught two sessions of Transition to College Mathematics each semester
 - Responsible for teaching, holding office hours, tutoring outside of class, and assigning all grades
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Graduate Research Assistant

Fall 2013- Spring 2014 Texas Woman's University Denton, TX

- Research assistant: TWU Comprehensive Student Success Program (CSSP)
 - Responsible for tracking student progress in the program, compiling and analyzing data, and helped create PowerPoint slides for presentations to the grant committee
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Summary of Qualifications

- Seven years of experience in the education field working with professors, administrators, teachers, and students in the classroom
- Experienced at developing and implementing a class curriculum, preparing daily lessons and assignments, and completing grading duties
- Experienced with Microsoft Office programs and LaTeX
- Fluent in Burmese