

Jordan Barry

1001 Leadership Place, Killeen, TX, 76549

Education

MS, Mathematics

Texas A&M University-Central Texas 2016

Thesis: *A Physics-Based Model for Target Coverage*
Advisor: Dr. Christopher Thron

MM, Music Theory

University of Oklahoma 2011

I studied music theory with a particular emphasis on Sonata Form pieces, Schankerian Analysis, and Rock-Music Analysis.

BM, Music Theory

University of Texas at Arlington 2009

I gained a breadth of musical knowledge while in attendance. I focused on Sonata Theory and Schankerian Analysis in my upper-level theory courses.

Research and Teaching Interests

- Non-linear Optimization
- Algorithm Design
- Target Coverage Problems
- Dynamical Systems
- Time Series Analysis
- Linear Algebra
- Representation Theory
- Numerical Analysis

Academic Experience

Graduate Assistant 2015-2016

Mathematics Department, Texas A&M-Central Texas

Assisted with proofreading and editing Abstract Algebra Textbook
Web design and development
Mathematical Research in Non-linear Optimization
Taught briefly in Linear Algebra and Abstract Algebra

Student Worker 2014-2015

Mathematics Department, Texas A&M-Central Texas

Assisted with editing Macroscopic Electrodynamics textbook for graduate students
Helped design a JavaScript and SageMath interface to convert between Gaussian and SI units
Edited papers for publication

Math Lab Tutor 2013-2014
McLennan Community College
Tutored students in all levels of college mathematics

Graduate Assistant 2009-2011
Music Department, University of Oklahoma
Taught Aural Skills courses
Graded section of written music theory
Administered Tests and Assigned Homework

Computer Languages

- C++
- MATLAB
- Python
- R
- Java
- Haskell
- HTML
- JavaScript

Publications and Papers

“An Efficient Scalable Sensor Node Placement Algorithm for Fixed Target Coverage Applications of Wireless Sensor Networks”, forthcoming in *IET Wireless Sensor Systems*.

Co-authored with A. Njoya, C. Thron, W. Abdou, E. Tonye, S. Nukenine, and A. Dipanda

“A Physics-Based Model for Target Coverage” presented at *IBII Conference on Math and Applications* Houston, TX. 2016.