

# Jordan Barry

Adjunct Assistant Professor, Mathematics TAMUCT

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## Employment History

Assistant Professor, Mathematics: 08/17-Present

Employer: Austin Community College District

Job Duties:

- Teach Mathematics and Statistics courses: College Algebra, Contemporary Mathematics, Elementary Statistics, Business Calculus, Calculus I, Linear Algebra, Differential Equations.
- Assess student progress, grade work
- Write and administer tests
- Co-chair, Statistics Corequisite Committee

Adjunct Professor, Mathematics: 01/17-Present

Employer: Texas A&M University-Central Texas

Job Duties:

- Teach Discrete Mathematics, Numerical Analysis, and Linear Programming courses
- Assess student progress, grade work
- Write and administer tests
- Research/office work

Graduate Assistant, Mathematics: 08/15-05/16

Employer: Texas A&M University-Central Texas

Job Duties:

- Proofreading
- Book editing
- Research
- Web design/development

Math-Lab Tutor: 08/13-05/14

McLennan Community College

Job Duties:

- Help Students with math course work
- Developmental Math, College Algebra, Business Math, Calculus I-III, etc.
- Lab maintenance and cleaning

Graduate Assistant: 08/09-08/11

Employer: University of Oklahoma 660 Parrington Oval, Norman, OK

Job Duties:

- Teaching Aural Skills
- Grading Written Music Theory
- Student Tutoring

## Education

Texas A&M University-Central Texas: 08/14-12/16 M.S., Mathematics

University of Oklahoma: 08/09-05/11 M.M., Music Theory

University of Texas at Arlington: 08/05-05/09 B.M., Music Theory

## Computer Skills

Proficiency with C++; MATLAB coding and scripting; building mathematical models with Excel; experience computing statistical data with R; non-academic work with Python for predictive modeling and machine learning. I have some Java and HTML experience. In addition, I have limited experience with JavaScript, Haskell, and Visual Basic. Basic computer/Internet skills and proficiency with Microsoft Office Suite/LibreOffice. I have used PC, Mac, and Linux (Ubuntu, OpenSUSE, Raspbian) operating systems. I have some knowledge of shell scripting and use of ownCloud and other open-source database software.

## Scholarly Work and Research

Published Work:

*A Physics-based model for target coverage.* Conference presentation. IBII International Conference on Mathematics and Applications. Houston, TX April 2016.

*A Physics-based model for target coverage.* Master's Thesis.

*An efficient scalable sensor node placement algorithm for fixed target coverage applications of wireless sensor networks.* With A. Njaya, C. Thron, W. Abdou, T. Emmanuel, et al. in IET Wireless Sensor Systems, 04/2017.

*A Computational Physics-based Algorithm for Target Coverage Problems.* With C. Thron. Book chapter in Advances in Nature-inspired Computing and Applications

*A Visualizable, Constructive Proof of the Fundamental Theorem of Algebra, and a Parallel Polynomial Root Estimation Algorithm.* With C. Thron, forthcoming.

## Research Interests:

Applied dynamical systems, non-convex optimization, heuristic methods for optimization, neural networks, bootstrapping statistics and estimator variance, Bayesian inference, and machine learning.