Connor Robertson

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Education

PhD - Applied Mathematics *August 2018 - Present*
New Jersey Institute of Technology

B.S. - Applied and Computational Mathematics *August 2011 - May 2018*
Brigham Young University

Research Experience

Cofounder - Coventina LLC - Provo, Utah *March '18 - December '18*
Developed statistics and machine learning toolkit used to forecast water main breaks for public works departments. Research and development comprised of data collection, cleaning, imputation, regression analysis, model building and validating

Research Assistant - Brigham Young University - Provo, Utah *March '17 - May '18*
Undergraduate research team focused on applying new mathematical concepts to problems in society and industry. Projects include: Use of Markov Chains for facility location problems in operations research and utilizing data science tools in optimizing improvements in water access in developing countries

Project Assistant - Brigham Young University - Provo, Utah *September '17 - May '18*
Editing and writing academic programming assignments in Python and managing lab computer and servers. Assignments include curriculum on: Web Scraping, Serialization, NoSQL DBMS, parallel processing techniques, quasi-newton optimization, and numerical Arnoldi method for eigenvalue and eigenvector computation

Teaching Experience

Teaching Assistant - New Jersey Institute of Technology - Newark, New Jersey
Math 111 - Calculus I
Math 238 - General Calculus II

Conference Participation

Poster: Aligning Self-Propelling Particles in Non-Trivial Domains *March 2018*
Frontiers in Applied and Computational Mathematics - Newark, New Jersey

Talk: Facility location using Markov chains *March 2018*
CPMS Student Research Conference - Brigham Young University - Provo, Utah

Talk: Efficiency of Water Distribution in Water Poor Areas of the World *July 2017*
Student Days - SIAM Annual Meeting - Pittsburgh, Pennsylvania

Professional Associations

Member - Society for Industrial and Applied Mathematics (SIAM) *2017 - Present*

Qualifications and Skills

Programming

Tool	Level
Python	Intermediate
Matlab	Intermediate
Latex	Intermediate
Mathematica	Intermediate
C++	Beginner
HTML	Beginner
CSS	Beginner
MPI	Beginner

Educational projects include: facial recognition, signal processing with Fourier transforms, markov chains for NLP, optimization (Simplex Method, Newton's Method, etc.), data processing tools, implementation of numerical solvers for ODEs, PDEs, and various applications of machine learning algorithms

Language

English (native)
Spanish (fluent)