

Yaoqi Guo

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EDUCATION

TRINITY COLLEGE

BS IN MATHEMATICS

BS IN COMPUTER SCIENCE

Expected May 2017 | Hartford, CT

Cumulative GPA: 3.5 / 4.0

Major GPA (Math): 3.7 / 4.0

NANJING FOREIGN LANGUAGE SCHOOL

Grad. June 2013 | Nanjing, China

PUBLICATION

S.E. Anderson, **Y.Guo**, A. Rubin, K. Wash.

"Prime Factorization and Domination in the Hierarchical Product of Graphs",

Discussiones Mathematicae Graph Theory.

Accepted, 2016.

COURSEWORK

MATHEMATICS

Complex Analysis

Analysis I & II

Numerical Analysis

Abstract Algebra I

Mathematical Statistics

Probability

Linear Algebra

(Tutor @ Aetna Quantitative Center)

Calculus I, II & III

(Tutor @ Aetna Quantitative Center)

COMPUTER SCIENCE

Analysis of Algorithms

Theory of Computation

Mobile Computing

Software Engineering

Computer Networks

Event Driven Programming

Visual Computing

(Teaching Assistant)

SKILLS

PROGRAMMING

Over 5000 lines:

Java

Over 1000 lines:

Matlab • Python

R • C • \LaTeX

Familiar:

Android • iOS

MySQL • Assembly

RESEARCH EXPERIENCES

NEURAL NETWORKS AND VISUAL RECOGNITION

Sep – Dec 2016 | Dr. E. Goldwyn | Trinity College | Hartford, CT

- Examined Linear Classifier using SVM (Support Vector Machine) and Softmax for image classification and evaluated their loss functions.
- Implemented Convolutional Neural Network for higher accuracy in image classification using the CIFAR-10 image dataset.

PITCH MAESTRO--ANDROID APPLICATION

Sep – Dec 2016 | Dr. R. Morelli | Trinity College | Hartford, CT

- Developed an Android application PitchMaestro, a combination of a pitch detector and a music note player

PRIME FACTORIZATION AND DOMINATION IN THE GENERALIZED HIERARCHICAL PRODUCT

May - Aug 2016 | Dr. K. Wash | Trinity College | Hartford, CT

- Investigated whether each of the important algebraic properties of the Cartesian product carried over to the generalized hierarchical product.
- Gave preliminary results on the domination number of specific generalized hierarchical products.

SELECTED PROJECTS

STATISTICAL ANALYSIS ON THE MATH PLACEMENT EXAM

May - Jul 2016 | Dr. P. Russo & Dr. E. Goldwyn | Trinity College | Hartford, CT

REGRESSION ANALYSIS ON THE TICKETMASTER DATASET

Apr 2016 | DataFest 2016 | Wesleyan University | Middletown, CT

INTERNSHIP EXPERIENCES

NANJING LES I.T. CO., LTD | DATABASE MAINTAINER ASSISTANT

Aug – Sep 2016 | Nanjing, China

- Regulated information format in database and eliminate and restore illegal input for subsequent profile review process.
- Modified rule modules in Java to meet changing requirements from clients.

PING AN BANK CO., LTD | CREDIT ANALYST ASSISTANT

Dec 2015 – Jan 2016 | Shanghai, China

- Analyzed borrowers' financial conditions relative to performance, repayment ability and trends.
- Assisted director in data accumulation and tracking of balance sheet and income statement.

HUAWEI TECHNOLOGIES CO., LTD | DATA ENGINEER ASSISTANT

Jul – Aug 2015 | Nanjing, China

- Maintained data integration pipelines for large amounts of temporal data.
- Designed web to facilitate easy access to data and monitored data quality.

HONORS & AWARDS

2013-16 Financial Aid of \$40,000 for each year

Jun 2016 Musical Presentation at the opening ceremony of Gruss Music Center

May 2016 Second Prize of the Phi Gamma Delta Prizes in Mathematics at Trinity College

Apr 2016 First Place of the 8th Annual Northeast Regional Undergraduate Mathematics Competition

Nov 2014 Piano Performance of Northeast Deans Annual Meeting at Trinity College