XIAOSHI WANG

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EDUCATION

Master, New York University **New York, NY**
Computer Science **GPA: n/a** **Expected May 2021**
To be taken: Fundamental Algorithms, Programming Languages, distributed Systems

Bachelor of Science, Lafayette College **Easton, PA**
Double Major in Mathematics and Computer Science **GPA: 3.84** **May 2019**
Relevant Courses: Data Structures & Algorithms, Computer Organization, Analysis of Algorithms, Software Engineering, Operating Systems, Principles of Programming Lang, Theory of Computation, Data Mining, Database Systems Management, Artificial Intelligence, Cyber Security, Vector Spaces, Combinatorics, Probability, Mathematical Statistics

HONORS & AWARDS

♦Upsilon Pi Epsilon (Honor Society in Computer Science) ♦ Pi Mu Epsilon (Honor Society in Mathematics) ♦ Dean's List, all semesters ♦ Ranked Second in Mathematics Barge Team Competition (School-wide), Fall 2016 and Spring 2017 ♦ Placed Third on Site Wilkes University in the Regional ACM Programming Contest, 2018

SKILLS

Programming Languages: Java, C/C++, Python, SQL, LaTeX, R, MATLAB, J, Prolog, Lisp
Platform/Technical Skills: Linux, Web Development, Mathematica, Microsoft Office

RESEARCH

Honor Thesis Research, "The Stretch Factor of Delaunay Triangulations" **Summer 2018–Spring 2019**
The stretch factor of a Delaunay Triangulation is defined as the maximum ratio, among all pairs of points, of the shortest path distance over the Euclidean distance. Researched on the tight bound of the stretch factor of Delaunay triangulations.

- Reviewed literature about pervious works and use Python to simulate models with varied inputs
- Applied the Piyavskii algorithm to estimating the upper bounds for critical arcgons

Excel Research, "Cover Time for Binary Sequences" **Summer 2017-Winter 2018**
Studied on the cover time in Binary Sequences, which is the length of some sequences when all patterns of a fixed length are visited.

- Applied a combinatorial method to find the distribution
- Used generating functions to simplify the equation
- Analyzed the expected cover time and found approximation of the expected value

SELECTED PROJECTS

Behind the ACOP Reports **Fall 2018**
Created databases in PostgreSQL for the Roundtable for Sustainable Palm Oil (RSPO) Annual Communications of Progress (ACOP) Reports. Provided compact spreadsheets and visualizations for clients Forest Trends in Caspio.

Sending Help **Spring 2018**
Designed and produced an emergency response and awareness system in C++ that organized first responder actions and facilitated the public's response. Accomplished features including registrations, alerts, incident reports, messages, etc.

WORK EXPERIENCE

Teaching Assistant, Lafayette College **Spring 2019**
Teaching Assistant - Assisted students in class and graded homework. Mentored study group twice a week to provide regular, accurate and timely feedback.

CS.getHelp(), Lafayette College **Fall 2017 – Fall 2018**
Drop-in Tutor - Worked in CS.getHelp(), drop-in sessions organized by ACM twice a week. Provided support for tutees on their homework, labs and projects in Computer Science introductory courses.

ATTIC, Lafayette College **Fall 2016 - Fall 2017**
Individual Tutor - Tutored students in Mathematics and Physics including Probability, Statistics and Physics introductory courses. Fostered communication and teaching skills by planning the lessons and delivering them efficiently to the students.

ACTIVITIES

Girls Who Code Club, Lafayette College **Fall 2018 - Spring 2019**
An after-school coding club for third to fifth grade girls at a local elementary school. Aim to close the gender gap in technology and teach girls to code, putting them on track to rewarding careers in computer programming.