Guantao Zhao

Seek PhD program

Arlington, VA
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EDUCATION

The George Washington University, Washington, D.C.
— *M.S. Computer Science*

SEPTEMBER 2018- NOW

Relevant courses include Machine Learning, Database Management Systems, Wireless and Mobile Security, Algorithm, Software Paradigms, Game Design, etc.

Rutgers University-New Brunswick, NJ
—*B.A. Computer Science*

SEPTEMBER 2015 - MAY 2018

2017 Dean's list in Art and Science department.
Relevant courses include Introduction to Computer Robotics, Design and Analysis of Computational Algorithms, Machine Learning, etc.

Rutgers University-New Brunswick, NJ
 — *B.S. Mathematics*

SEPTEMBER 2015 - MAY 2018

2017 Dean's list in Art and Science department.
Relevant courses include Numerical Analysis, Math Logic, Math Reasoning, Differential Equations, Discrete Mathematics, Geometry, Probability, etc.

Drexel University, Philadelphia, PA
— *B.S. Mathematics*

SEPTEMBER 2013 - JUNE 2015

2015 Dean's list in Art and Science department.
Recipient of $10,000 per year academically based scholarship for two consecutive years.
Relevant courses include Linear Algebra, Advanced Linear Algebra, Advanced Calculus, etc.

SKILLS

Java · Python · C++ · C · GO
MATLAB · LaTeX · HTML5
· SQL · Assembly·
CSS·Javascript
· MS Office (Word, PowerPoint, Excel)

LANGUAGES

Chinese (fluent)
English (fluent)
Japanese (basic)

Ride Sharing in a Driverless World, *George Washington University, Department of Computer Science — Research Assistant, Advisor: Amrinder Arora*

October 2019 – Now

Project: Ride Sharing in a Driverless World
Research purpose: designing a new algorithm of work function prime to solve the problem of driverless cars' parking and acquiring new customers during off-peak hours
- Will lead two team members to complete this project and work as the first author to publish a paper

Dynamic License Plate Recognition, *Harbin Institute of Technology, Department of Computer Science — Research Assistant, Advisor: Dansong Cheng*

May 2019 – Now

Project: Dynamic License Plate Recognition
Research purpose: aiming to report the illegal vehicle's location to the police department through recognizing the license plate of the cars around it when the vehicle is moving
- Used the CNN to regress the left and right borders of the license plate
- Extracted characters by making use of the CNN sliding window and identified characters with CNN

Directed Program Undergraduate Research, *Rutger Math Department, New Brunswick, NJ — Student Researcher, Advisor: Jinyong Park*

SEPTEMBER 2017 –JANUARY 2018

Project: Directed Program Undergraduate Research-Research of the Use of Graph Theory in Car-sharing Software(Uber, DiDi, Lyft)
Research Purpose: aiming to shorten the waiting time of passenger and increase the order receiving rates of drivers
- In the early stages, learned the Graph Theory independently and mastered the relevant algorithm, LaTex and Matlab
- In the middle stage, studied the topic and made weekly presentation to Advisor
- Attended the conference of Directed Program Undergraduate Research in Rutgers and presented the research results

TEACHING ASSISTANT EXPERIENCE - On Campus

TA&Grader, *The George Washington University, Washington, D.C.,*
—Department of CS
AUGUST 2019 –NOW

Work focused on Computer Science Course CS4455 of Master program. Helping 55 students with test preparation and assignments.

Math Tutor, *Drexel University, Philadelphia, PA,*
—Department of Math
SEPTEMBER 2014 –MAY 2015

Helped students with test preparation and homework assignments in Algebra, Calculus, Trigonometry and Statistics.

Math Tutor Volunteer, *Old Pine Community Center, Philadelphia, PA,*
JANUARY 2014 –JUNE 2014

Taught high school students at a community center focusing on Algebra, SAT test preparation, and Geometry.

WORK EXPERIENCE

Blue Otter, *The Mountain View, CA*
—Software Tester, Intern
JUNE 2017 –SEPTEMBER 2017

· Focused on testing the backend of a behavioral analytics data science tool.
· Used Python to build automated test cases testing database resilience, SQL queries and targeted deletes, and frontend use cases.

Tsinghua Tongfang Co., Ltd., *Beijing, China*
—Web Programmer, Intern
JUNE 2016 –SEPTEMBER 2016

· Focused on Web maintenance and used HTML, CSS and Javascript to build and design Web of the new product.

AWARDS & HONOR

2019 The George Washington University's Golden Key International Honour Society Member
2018 Excellent Research Project-Directed Program Undergraduate Research
2017 Dean's List in Art and Science Department- Rutgers University
2015 Dean's List in Art and Science Department-Drexel University
2013 Recipient of $10,000 per year academically based scholarship for two consecutive years-Drexel University