Wenxin (Freda) Ding

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA
M.S. in Computer Science (Research Thesis) May 2020 --- May 2021
B.S. in Computer Science and Mathematical Sciences, QPA: 3.9/4.0 Aug 2016 --- May 2020
Minor in Computational Finance

RESEARCH EXPERIENCE

Research Assistant (Advisors: Prof. Nihar B. Shah and Prof. Weina Wang)
Computer Science Department, Carnegie Mellon University June 2019----Present

- Applied differential privacy to peer-review data release
- Developed time-efficient algorithm to enhance accuracy of released data
- Presented the work as senior thesis in paper, poster and oral presentation
- Published paper *"On the Privacy-Utility Tradeoff in Peer-Review Data Analysis"* as first author
- Link to publication: https://arxiv.org/abs/2006.16385

Research Assistant (Advisor: Prof. Weina Wang)
Computer Science Department, Carnegie Mellon University December 2018----May 2019

- Investigated correlation among load-balancing queueing models
- Applied probability theory on association of random variables
- Formulated proof of the work and presented in poster to faculty and students

LEADERSHIP

Teaching Assistant
Computer Science Department, Carnegie Mellon University July 2017----May 2020

- Taught courses in introductory computer science and advanced systems (15110, 15213, 15440)
- Managed a team of 20+ teaching assistants and a class of 200+ students as head teaching assistant
- Instructed students to build algorithms and to develop applications in Python
- Helped students with system design and realization in C and Java

Mentor
Strong Women Strong Girls, Pittsburgh, PA Feb 2017----May 2019

- Tutored teenage girls from lower-income neighborhood in reading and creative writing
- Introduced career path of successful women and encouraged mentees to pursue long-term education

SKILLS AND RELEVANT COURSES

- Programming Skills: Python, C, Standard ML, Java, Mathematica, Matlab
- Selected Coursework: Machine Learning, Distributed Systems, Computer Performance Modeling, Algorithm Design and Analysis, Number Theory, Probability and Mathematical Statistics

AWARDS

- 2017 William Lowell Putnam Mathematical Competition (Rank: 255 / 4638)
- 2019 Mark Stehlik SCS Alumni Undergraduate Impact Scholarship