**Wenxin (Freda) Ding**

Email: wenxind@andrew.cmu.edu Tel: (412)-961-2629 Website: wenxind.github.io

**EDUCATION**

I will hopefully start pursuing my PhD degree starting fall 2021.

**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

**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

• 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

• 2020 Senior Leadership Recognition