Jessica Dai

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EDUCATION

Sept '17 – May '21   **Brown University**, Sc.B. Computer Science. GPA 3.95/4.00

Advanced Coursework: Computer Systems; Deep Learning; Data Science; Machine Learning; Statistical Inference; Computational Probability and Statistics; Topics in Applied Cryptography (graduate seminar)

RESEARCH EXPERIENCE

June '20 – Present   **Carnegie Mellon University**   Advisor: Zachary C. Lipton
Visiting Researcher, Approximately Correct Machine Intelligence Lab

Feb '19 – Oct '20   **Brown University**   Advisor: Sarah M. Brown
Undergraduate Researcher, Data Science Initiative

INDUSTRY EXPERIENCE

Sept '20 – Present   **Arthur AI**
Machine Learning Engineer
Building observability and model monitoring tools for safe and responsible machine learning.

May '19 – Aug '19   **Microsoft**
Software Engineering & Program Management (Explore) Intern
OneDrive Sync team. Researched, designed, and implemented custom ticket creation system.

TEACHING

Spring '20   CS 1420: Machine Learning (Head Teaching Assistant)
Fall '19   CS 1470/2470: Deep Learning (TA & Socially Responsible Computing TA)
Fall '19 – Spring '20   Socially Responsible Computing Program Head Teaching Assistant
Spring '19   CS 0160: Data Structures & Algorithms (Undergraduate Teaching Assistant)

PUBLICATIONS

Workshop papers   Jessica Dai, Sina Fazelpour, and Zachary C. Lipton. Fair Machine Learning Under Partial Compliance. In *Workshop on Consequential Decisions in Dynamic Environments at NeurIPS 2020* (**contributed talk – top 27% of papers**); In *Workshop on ML for Economic Policy at NeurIPS 2020*; In *Women in ML Workshop 2020* (**contributed talk – top 4% of papers**)

Jessica Dai and Sarah M. Brown. Label Bias, Label Shift: Fair Machine Learning with Unreliable Labels. In *Workshop on Consequential Decisions in Dynamic Environments at NeurIPS 2020*; in *Women in ML Workshop 2020*.

Jessica Dai and Sarah M. Brown. Quantifying the Effect of Unrepresentative Training Data on Fairness Intervention Performance. In *Proceedings of the Undergraduate Consortium Mentoring Program at AAAI 2020*.

AWARDS & HONORS

2020   Commencement speaker nominee, Brown University
LINK Award for Summer Research, Brown University
Undergraduate Teaching & Research Award, Brown University
2019   Grace Hopper Scholar, Anita Borg Institute & Computing Research Association
2nd Place, Hicks Prize in Debating
2018   1st Place, Hypatia Prize in Mathematics
2017   National Merit Scholar

CONFERENCE TRAVEL GRANTS

2020   Cornell, Maryland, Max Planck Pre-Doctoral Research School (*30% acceptance rate*)
AAAI Undergraduate Consortium Mentoring Program (*16% acceptance rate*)