Anna Fang

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(317) 523-4098

Education

Carnegie Mellon University, School of Computer Science

Aug 2020 - Present

PhD in Human-Computer Interaction

GPA: 4.0/4.0

Cornell University, College of Engineering

Aug 2015 - May 2019

B.S. Computer Science, Magna Cum Laude

GPA: 3.82/4.0

Research & Teaching Experience

Carnegie Mellon University, Graduate Research Assistant

Aug 2020 - Present

Under Haiyi Zhu in Social Computing/HCI

- My research studies how the mechanisms and algorithms of online communities can enable both personal well-being (e.g. mental health) and community well-being (e.g. productive discourse). My work is in the intersection of applied artificial intelligence, network science, and social science.

Cornell University Computer Science, Undergraduate Researcher

Aug 2017 - Dec 2018

Under Kilian Weinberger in Machine Learning

- Studied question-answering models with deep learning on the Stanford Question Answering Dataset
- Automated conference paper assignments according to similarity measurements (+ other constraints) for AAAI 2018

Cornell University Computer Science, Head Teaching Assistant

Aug 2016 - May 2019

CS3110 Functional Programming & CS1110 Introduction to Python

- Spring 2019, Fall 2018: Head TA for CS3110
- Spring 2018, Fall 2017, Spring 2017, Fall 2016: Undergrad TA for CS3110 and CS1110

National Science Foundation, Research Intern

May 2016 - Aug 2016

Under Zina Ben-Miled in Data Analytics

- Studied the effects of user sentiment on news propagation across Twitter utilizing sentiment analysis, data analytics, and statistical modeling

Indiana University Purdue University Indianapolis, Research Assistant

May 2014 - Aug 2014

Under Arjan Durresi in Trust Systems and Social Networks

- Utilized data mining and analysis of Twitter data to model trust in online communities based on balance theory and status theory

Publications

(*) denotes equal contribution

Fang, A., Zhu, H. (2022). Exploring the Relationship Between Community Generated Rules and Discussion Structure: A Case of Reddit. *Under Submission*.

Fang, A.*, Liu, Y.*, Kraut, R., Moriarty, G., Firman, C., Zhu, H. (2022). **Agent-based Simulation of Real-Time Algorithmic Matching for Online Mental Health Communities.** *Under Submission*.

Fang, A. & Zhu, H. (2022). Matching for Peer Support: Exploring Algorithmic Matching for Online Mental Health Communities. In Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '22).

Fang, A. & Ben-Miled, Z. (2017). Does Bad News Spread Faster?. *IEEE International Conference on Computing, Networking, and Communications*.

Ruan, Y., Alfantoukh, L., Fang, A., & Durresi, A. (2014). Exploring Trust Propagation Behaviors in Online Communities. *International Conference on Network-based Information Systems* 2014.

Industry Experience

Amazon, Software Development Engineer I

Aug 2019 - Aug 2020

eCommerce Platform - Seattle, WA

- Integrated third-party software Vertex into Amazon's existing pricing platform
- Used Amazon RDS with mySQL to create and deploy databases containing updated pricing regulations in Amazon marketplaces worldwide

Amazon, Software Engineer Intern

May 2018 - Aug 2018

Personalization Team, Recommender Systems - Seattle, WA

- Created rule-based recommendation model for non-consumable products in "Buy It Again"
- Designed & implemented automated system that generated >30% increased coverage in sorting products into "browse nodes", a categorization process that underlies Amazon recommenders

The Aerospace Corporation, Software Engineer Intern

June 2017 - Aug 2017

Launch Vehicles Team for SpaceX - El Segundo, CA

• Designed and implemented visualization tools to analyze real-time telemetry data in SpaceX's control room

Awards

Fellowship in Digital Health, Center for Machine Learning & Health at CMU.

June 2022 - June 2023

• Covers tuition, stipend, and \$3000 research expenses.

Cornell University, Computer Science Course Staff Award

May 2019, May 2018, Dec 2017

Cornell University, Engineering Dean's List

Fall 2017 - Spring 2019, Spring 2016 - Fall 2016

Invited Talks

PBS National Meeting, Invited Speaker

May 2018

- Invited to speak about algorithmic bias and show short film about AI ethics at the 2018 National Meeting Conference in New Orleans
- PBS published my short film to PBS Learning Media for Teachers

American Society for Engineering Education, Invited Speaker

April 2018

• Invited to speak on current issues in AI ethics and introducing tech ethics in CS undergraduate education to professors from various universities at the ASEE St. Lawrence Conference

Professional Service

Reviewer for CHI '22, CSCW '22, CHI '21, CSCW '21