

Anna Fang

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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 is in social computing and focuses on the network algorithms and structures of online communities, with applications to mental well-being and community discourse. My work is situated somewhere in the overlap of human-computer interaction, network analysis, and artificial intelligence.

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

- Mined and analyzed social media data to explore online trust and usages of keywords in online communities

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

Publications

Does Bad News Spread Faster?

Anna Fang, Zina Ben Miled

IEEE International Conference on Computing, Networking, and Communications 2017

San Jose, California, US

Exploring Trust Propagation Behaviors in Online Communities

Yefeng Ruan, Lina Alfantoukh, Anna Fang, Arjan Duresi

International Conference on Network-based Information Systems 2014

Salerno, Italy

Awards

Cornell Computer Science Course Staff Award

Awarded 3 times: May 2019, May 2018, December 2017

Cornell Engineering Dean's List

Fall 2017 - Spring 2019, Spring 2016 - Fall 2016

Invited Talks & Projects

Cornell University Unmanned Air Systems (CUAir), Subteam Lead

Aug 2017 - May 2019

- CUAir is the #1 fixed-wing autonomous aerial system team in the world.
- Led our team to 1st place Flight Readiness Review and led the annual Technical Paper. My lead on recruitment garnered the largest applicant pool to any Cornell project team in history (>350 applicants)

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

Skills

Java, Python, OCaml, R, Javascript, HTML/CSS, SQL, C, Bash

Git SVN, TensorFlow, PyTorch, LaTeX, Adobe Suite (Photoshop, Illustrator, Premiere Pro)