

# Anna Fang

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(317) 523-4098

## Education

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### **Carnegie Mellon University**, School of Computer Science

*PhD in Human-Computer Interaction*

GPA: 4.0/4.0

Aug 2020 - Present

### **Cornell University**, College of Engineering

*B.S. Computer Science, Magna Cum Laude*

GPA: 3.82/4.0

Aug 2015 - May 2019

## Research & Teaching Experience

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### **Carnegie Mellon University, Graduate Research Assistant**

*Under Haiyi Zhu in Human-Computer Interaction*

Aug 2020 - Present

- Studying the networks of online communities, including how to build network structures that proactively improve community civil discourse and users' mental wellbeing

### **Cornell University Computer Science, Undergraduate Researcher**

*Under Kilian Weinberger in Machine Learning*

Aug 2017 - Dec 2018

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

### **National Science Foundation, Research Intern**

*Under Zina Ben-Miled in Data Analytics*

May 2016 - Aug 2016

- 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**

*Under Arjan Duresi in Trust Systems and Social Networks*

May 2014 - Aug 2014

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

### **Cornell University Computer Science, Head Teaching Assistant**

*CS3110 Functional Programming & CS1110 Introduction to Python*

Aug 2016 - May 2019

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

## Industry Experience

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### **Amazon, Software Development Engineer I**

*eCommerce Platform - Seattle, WA*

Aug 2019 - Aug 2020

- 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**

*Personalization Team, Recommender Systems - Seattle, WA*

May 2018 - Aug 2018

- Designed & implemented rule-based recommendation model for non-consumable products in "Buy It Again", including when to surface these recommendations
- 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**

*Launch Vehicles Team for SpaceX - El Segundo, CA*

*June 2017 - Aug 2017*

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

## **Publications**

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### **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 Durrezi**

*International Conference on Network-based Information Systems 2014*

*Salerno, Italy*

## **Awards**

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### **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**

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### **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**

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

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