

# Lucia Huo

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## Education

### University of Pennsylvania

Philadelphia, PA

BACHELOR OF APPLIED SCIENCE MAJORING IN COMPUTER SCIENCE AND PHILOSOPHY WITH MINOR  
IN COGNITIVE SCIENCE (MAJORS GPA: 3.89/4.0)

Aug 2016 - May 2020

- **Women In Computer Science Advocacy Co-Chair** May 2018 - present  
Founder, organizer and photographer of the Percentage Project. Along co-chair, recruited advocacy team, direct advocacy projects, arrange meetings with team, discuss action items with Engineering faculty.
- **Polybian Society Member** March 2018 - present  
Member of literary society serving to preserve high-quality, philosophical and political discourse.
- **The Daily Pennsylvanian Board Member (Photo Co-Editor)** May 2018 - Aug 2018  
Managed photographers and media in outgoing articles for award-winning, student-run newspaper.

## Skills

Program management, Natural Language Processing, Machine Learning, Research, Python, Bash, Javascript, C/C++, Java, OCaml, LaTeX, Express, Redux, React, HTML5

## Work Experience

### Microsoft Corporation

Redmond, WA

PROGRAM MANAGEMENT INTERN IN AZURE LINUX SYSTEMS GROUP (LSG)

May 2019 - present

- Designed tool to make Linux kernel development more efficient, wrote documentation for Linux kernel update pipeline and planned release of Azure-tuned kernels
- Hacked in digital diplomacy team to detect deepfakes in media in company-wide Hackathon 2019
- Attended internal conferences, team events, and organized specification reviews and one-on-one meetings

EXPLORER INTERN IN AZURE DATA MIGRATION

May 2017 - Aug 2017

- Worked with two interns to design and build command line tool for Azure data migration which enables data migration from on-premise databases to Azure and Azure VMs
- Tool was demoed at Microsoft Ignite Conference and released to the public in 2017

### Cognitive Computation Group

Philadelphia, PA

RESEARCHER FOR NAMED ENTITY RECOGNITION IN LOW RESOURCE LANGUAGES

May 2018 - August 2018

- Improved existing named entity recognition tool using topic-matching algorithms and parsed raw language data into consumable formats
- Reviewed ACM (Association for Computing Machinery) paper submissions from PhD students in weekly meetings
- Co-authored and published UPenn system description for this project

### MakerLabs (startup makerspace)

Vancouver, Canada

INTERN

May 2016 - Aug 2016

- Operated laser cutters, 3D printer and scanner, CNC router and graphics programs for constructing 2D and 3D shapes

## Projects

### Microsoft Linux Kernel Patch Tracker

- Wrote functional specification detailing problem space, customer scenarios, requirements, and implementation recommendations
- Coded proof-of-concept for tool in Python and Bash for final demo
- Helped finalize features and integrated patch set into Linux kernel distributions for next quarterly release of Azure-compatible Linux kernels

### UPenn LoReHLT Evaluations 2018 (Python, Java, Bash)

- Wrote Java, Python and Bash code for the DARPA-sponsored Low Resource Languages for Emergent Incidents 2018 Shared Task, working to improve automated recognition of entities and automated linking of entities to Wikipedia pages
- Wrote document selection algorithm to intelligently select training documents

### Microsoft Azure Data Migration Service CLI Support Tool (C#)

- Wrote technical specification for Azure PowerShell Database Migration Tool
- Wrote PowerShell cmdlets in C# enabling Azure users to create, delete, configure services, projects, and migration tasks from local databases to Azure. Provided 100% integration test coverage.

## Awards

- 2019 **STARS Computing Corps Tapia Conference Funding Recipient**
- 2018 **Computing Research Association (CRA-W) Grace Hopper Conference Scholar**
- 2017 **Canadian Standards Association Scholarship Winner**
- 2016-17 **Benjamin Franklin Scholar**