

# Lucia Huo

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## Education

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### 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)

2016 - 2020

- **Board Member and Advocacy Co-Chair In Women In Computer Science** *May 2018 - present*  
Founder, organizer and photographer of the Percentage Project which has 200+ participants. Rebranded "Dear Engineers," campaign, increasing number of followers by 193%. Along co-chair, recruited founding class of advocacy team, launch and direct advocacy projects.
- **Member In Polybian Society** *March 2018 - present*  
Member of literary society serving to preserve high-quality, philosophical and political discourse in weekly debates.
- **Board Member and Photo Co-Editor In The Daily Pennsylvanian** *May 2018 - Aug 2018*  
Managed photographers and all media for award-winning, student-run newspaper. Migrated 133 years of archived media to cloud databases.

## Work Experience

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### Microsoft Corporation

Redmond, WA

Program Management Intern in Azure Linux Systems Group (LSG)

May 2019 - Aug 2019

- Designed tool to accelerate Linux kernel development (tool is expected to reduce number of Linux "Azure Incidents" by over 50%), wrote documentation for Linux kernel update pipeline and finalized features for upcoming release of "Azure-tuned" kernels based on customer analysis and partner negotiations
- Hacked in digital diplomacy team to detect deepfakes in media in company-wide Hackathon 2019
- Contributed to internal conferences, team events, and lead specification reviews and one-on-one meetings

Explorer Intern in Azure Data Migration

May 2017 - Aug 2017

- Designed and built Azure data migration command line tool
- Tool was demoed at Microsoft Ignite Conference and released to the public in 2017

### Cognitive Computation Group

Philadelphia, PA

Natural Language Processing Research Intern

May 2018 - August 2018

- Improved existing named entity recognition tool using topic-matching algorithms and parsed raw language data into consumable formats
- Reviewed and provided feedback for Association for Computing Machinery paper submissions from PhD students in weekly meetings
- Co-authored and published UPenn System Description for project

### MakerLabs (startup makerspace)

Vancouver, Canada

Community Management Intern

May 2016 - Aug 2016

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

## Projects

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### Microsoft Linux Kernel Patch Tracker

- Wrote functional specification detailing problem space, customer scenarios, requirements, and implementation details
- Coded proof-of-concept for tool in Python and Bash for final demos
- Pitched product to General Managers, Principal PM Managers, and team developers. Obtained positive feedback, so product is currently in-development

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

- Wrote Java, Python and Bash code to improve automated recognition of entities and automated linking of entities to Wikipedia pages in rare-language texts by training various machine learning models
- Developed 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 detailing market analysis and implementation details
- Developed 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 & Honours

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**PennApps Hackathon Fall '19 Diversity Panel Speaker** (2019), **STARS Computing Corps Tapia Conference Funding Recipient** (2019), **Dean's List** (2018-19), **Computing Research Association (CRA-W) Grace Hopper Conference Scholar** (2018), **Canadian Standards Association Scholarship Winner** (2017), **Benjamin Franklin Scholar** (2016), **Best Website Award at Shad Entrepreneurship Cup** (2015)

## Skills

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