

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)

2016 - 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

Product 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 - Aug 2019

- Designed tool to accelerate and increase quality of Linux kernel development, wrote documentation for Linux kernel update pipeline and finalized features for next release of "Azure-tuned" kernels
- Hacked in digital diplomacy team to detect deepfakes in media in company-wide Hackathon 2019
- Contributed to 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 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

RESEARCHER IN NATURAL LANGUAGE PROCESSING

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 details
- Coded proof-of-concept for tool in Python and Bash for final demo
- Pitched product to General Managers, Principal PM Managers, and team developers. Product is currently in-development

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
- 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
- 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

- 2019 **PennApps Hackathon Fall '19 Diversity Panel Speaker**
- 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 **Benjamin Franklin Scholar**