Lucia **Huo**

(+1) 267-521-6783 | ✉ luciahuo@sas.upenn.edu | 🏠 luciahuo.github.io

Edu**cation**

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.

Ski**lls**

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

Wor**k Experience**

Microsoft Corporation *Redmond, WA*

PROGRAM MANAGEMENT INTERN IN AZURE LINUX SYSTEMS GROUP (LSG) *May 2019 - present*

- 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 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

Pro**jects**

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
- 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.

Awa**rds & 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**