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*

- **Board Member and Advocacy Co-Chair In Women In Computer Science**   *May 2018 - present*
  Founder, organizer and photographer of the Percentage Project which has garnered 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, arrange meetings with team and Engineering faculty.
- **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 media in weekly e-newspapers for award-winning, student-run newspaper. Migrated 133 years of archived media to cloud databases.

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 (tool is expected to reduce number of Linux "Azure Incidents" by over 50%), wrote documentation for Linux kernel update pipeline and finalized features for next quarterly 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*

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 ACM (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

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 for the DARPA-sponsored Low Resource Languages for Emergent Incidents 2018 Shared Task and improved 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

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)

Skills

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