

Naomi Johnson

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- SUMMARY** Mixed-methods UX researcher and Microsoft software engineer aspiring to a PhD in Human Computer Interaction with a focus on social justice and education
- EDUCATION**
- University of Virginia**, Charlottesville, Virginia Aug 2018 – May 2020
- B.A., Computer Science and Japanese; 3.44 GPA
 - Relevant coursework: Databases, Web Development, Applied Machine Learning, Statistics, Feminist Theories, Lost and Found in Translation, Public Speaking
- Brigham Young University**, Provo, Utah Sep 2016 – Apr 2018
- Two years' undergraduate studies in Computer Science and Japanese; 3.68 GPA
 - Relevant coursework: Data Structures, Discrete Structures, Advanced Programming, Calculus
- EXPERIENCE**
- Software Engineer**, Microsoft May 2020 – Present
- Adding multi-stage review features to M365 Records Management
 - Designed and ran quantitative surveys and usability tests, then analyzed data leading to 10 actionable tasks to improve search UX. Implementation resulted in first-time users' fatal errors decreasing from 33% to zero percent during the 2020 Hackathon
- Creative Technologies Lab Intern**, Adobe Research Jan 2019 – Apr 2019
- Wrote algorithm to suggest graph type, generate updated graph, and explore data by determining relationships between a graph and a new dataset, resulting in a new feature for Data Illustrator
- Explorer Intern**, Microsoft May 2018 – Aug 2018
- Created paper prototypes and interviewed 10 users to gather preliminary requirements
 - Designed, implemented, and tested an error-tracking dashboard for the knowledge graph AI pipeline
 - Site resulted in a savings of 120 hours per year on status checks, is still in use as of November 2020
- Research Assistant**, Brigham Young University Nov 2016 – May 2018
- Designed and ran unmoderated scalable A/B/C study to determine UX impact on annotators' efficiency
 - Analyzed resulting telemetry and survey data; co-authored papers at UbiComp (2018), Springer (2019)
 - Designed and ran quantitative study about students' experience in the Computer Science department, published research at FIE (2019, 2019)
- Research Assistant**, Stanford University Jun 2017 – Aug 2017
- Ran card sorting interviews, usability studies to simplify menu of "Juxxt", a novice web developer tool
 - Analyzed findings to determine 20 actionable tasks; implemented 10 using HTML/CSS/ES6
 - Desk research to inform design of usability study about web design tool "Poirot", data collection for usability testing; co-authored papers at CHI (2018), Springer (2020)
- SKILLS**
- Computer Languages**
- Python, Java, JavaScript, C++, C, Java, R, MySQL, HTML, CSS, \LaTeX
- PUBLICATIONS**
- K. Tanner, N. Johnson, J. Landay, "Poirot: A Web Inspector for Designers," in *Design Thinking Research: Investigating Design Team Performance*, Nov 2020. <https://www.springer.com/gp/book/9783030289591>
- N. Johnson, R. Moulder, and K. Seppi, "A Longitudinal Analysis of Gender and Academic Performance Effects on Student Confidence," in *2019 IEEE Frontiers in Education Conference (FIE)*, Cincinnati, Ohio. Oct 2019.
- N. Johnson, J. Garcia, and K. Seppi, "Women in Computer Science: Changing the Women or Changing the World?," in *2019 IEEE Frontiers in Education Conference (FIE)*, Cincinnati, Ohio Oct 2019.

- N. Johnson M. Jones, K. Seppi, L. Thatcher, "Understanding How Non-Experts Collect and Annotate Activity Data," in *Human Activity Sensing: Springer Series in Adaptive Environments*. Springer, Cham. Sep 2019. https://link.springer.com/chapter/10.1007/978-3-030-13001-5_7
- K. Tanner, N. Johnson, J. Landay, "Poirot: A Web Inspector for Designers," in *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19)*., ACM, New York, NY, USA, 1424-1433. May 2019. <http://doi.acm.org/10.1145/3290605.3300758>
- M. Jones, N. Johnson, K. Seppi, L. Thatcher, "Understanding How Non-Experts Collect and Annotate Activity Data," in *Proceedings of the 2018 ACM International Joint Conference and 2018 International Symposium on Pervasive and Ubiquitous Computing and Wearable Computers (UbiComp '18)*. ACM, New York, NY, USA, 1424-1433. Oct 2018. <https://doi.org/10.1145/3267305.3267507>

TEACHING EXPERIENCE

- Teaching Assistant**, Human Computer Interaction in Software Development Aug 2018 – Dec 2018
- Ranked highest of five TAs in both knowledge of course content and teaching skills
 - Supervised students' group work, held office hours, graded projects
- Teaching Assistant**, Introduction to Computer Programming Aug 2016 – Dec 2016
- Instructed lab help sessions to groups of up to 40 students about arrays, classes, and pointers
 - Tutored students one-on-one and teaching debugging skills

PROFESSIONAL SERVICE

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| Microsoft Growth Groups - Allyship & Social Justice, Group Leader | 2020–Present |
| Microsoft Mentoring for CS Undergrads, Mentor | 2020–Present |
| University of Virginia Society of Women Engineers (SWE), Mentor | 2019–2020 |
| University of Virginia Women in Computer Science (WiCS), Mentor | 2019–2020 |
| IEEE Frontiers in Education Conference (FIE), Reviewer | 2019 |
| ACM Technical Symposium on Computer Science Education, Reviewer | 2018 |
| CS Department Undergraduate Committee, Undergraduate Representative | 2018 |

AWARDS & SCHOLARSHIPS

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| Xext Student Scholarship for Grace Hopper Conference (Orlando, FL) | Sep 2020 |
| Microsoft AI for Earth grant (Redmond, WA) | Jul 2019 |
| Scholarship to Women in Cyber Security 2019 Conference (Pittsburgh, PA) | Mar 2019 |
| Anita Borg Institute Student Scholarship for Grace Hopper Conference (Houston, TX) | May 2018 |
| Anita Borg Institute Student Scholarship for Grace Hopper Conference (Houston, TX) | Feb 2018 |
| Adobe Research Women in Technology \$10,000 Scholarship (San Jose, CA) | Jan 2018 |
| BYU CS Research Conference Scholarship (Provo, UT) | May 2017 |
| BYU Half Tuition Scholarship (Provo, UT) | Apr 2017 |

CAMPUS ACTIVITIES

- Computer and Network Security club (CNS)** Aug 2018 – Dec 2019
- Competed in MetaCTF at the University of Virginia (Oct 2018), 14th place out of 55 teams
 - Participated in PatriotCTF at George Mason University (Nov 2018), 9th place out of 15 teams
- Association of Computing Machinery (ACM)** Sep 2016 – Apr 2018
- Served as president (2018), vice president (2017), and website developer (2016)
 - Coordinated with Major League Hacks (MLH) for BYU ACM's first ever 24 hour hackathon a
 - Planned networking events with 10 companies and over 200 students per event