

# NATALIE Grace Brigham

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## EDUCATION

### University of Washington

Seattle, WA

*Master of Science, Computer Science*

2023-2024

- GPA: 4.00
- Thesis: “Violation of my body:” Perceptions of AI-generated non-consensual (intimate) imagery
- Advisor: Tadayoshi Kohno

### University of Washington

Seattle, WA

*Bachelor of Science, Computer Science*

2020-2023

- Overall GPA: 3.95 (Magna Cum Laude); Department GPA: 3.93
- Programs: Interdisciplinary Honors, Lavin Entrepreneurship (highly-competitive co-curricular program for undergraduate entrepreneurs from all majors)

## PEER-REVIEWED CONFERENCE PUBLICATIONS

### Analyzing the AI Nudification Application Ecosystem

Cassidy Gibson, Daniel Olszewski, Natalie Grace Brigham, Anna Crowder, Kevin R. B. Butler, Patrick Traynor, Elissa M. Redmiles, Tadayoshi Kohno

*Preprint (under submission).*

### “Violation of my body:” Perceptions of AI-generated non-consensual (intimate) imagery

Natalie Grace Brigham, Miranda Wei, Tadayoshi Kohno, Elissa M. Redmiles.

*Symposium on Usable Privacy and Security (SOUPS), Philadelphia, USA, August 2024.*

## WORKSHOP PUBLICATIONS & PRESENTATIONS

### Developing Story: Case Studies of Generative AI’s Use in Journalism

Natalie Grace Brigham, Chongjiu Gao, Tadayoshi Kohno, Franziska Roesner, Niloofar Miresghallah.

*Socially Responsible Language Modeling Research (SoLaR), Vancouver, CA, December 2024.*

### Measuring and mitigating harms at the intersections of generative AI and image-based sexual abuse

Natalie Grace Brigham.

*Societal & User-Centered Privacy in AI (SUPA) Workshop, Philadelphia, USA, August 2024.*

## HONORS AND AWARDS

**Outstanding Master’s Thesis Award (2024):** Each year one Master’s thesis from the Paul G. Allen School of Computer Science & Engineering is selected for this award.

**Outstanding CSE Senior Award (2023/2024):** Each year, four students from the graduating class at the Paul G. Allen School of Computer Science & Engineering are recognized for exceptional academic performance, significant contributions to advancing knowledge, and demonstrated leadership potential and good citizenship.

**University of Washington Husky 100 (2023):** Each year, 100 undergraduate and graduate students are recognized by the university for “making the most of their time at UW.”

**CSE Excellence Scholarship (2023):** A scholarship award for undergraduate students at the Paul G. Allen School of Computer Science & Engineering, recognizing outstanding academic achievement.

## WORK EXPERIENCE

### Software Engineer

Sep. 2024 – Present

*Microsoft - Core Web Infrastructure, Azure Machine Learning*

*Redmond, WA*

- Developing a new, open-source JavaScript SDK

### Software Engineering Intern

Jun. 2023 - Sep. 2023

*Microsoft - Responsible AI Tooling, Azure Machine Learning*

*Redmond, WA*

- Developed local explainability and interpretability mechanisms
- Contributed to open source responsible AI repositories

<b>Co-Founder &amp; Developer</b>	Nov. 2021 - Jun. 2023
<i>Mezzo</i>	<i>Seattle, WA</i>
<ul style="list-style-type: none"> <li>• Built a cross-platform app that helps users make mutually convenient plans for meetups, leading the team of developers</li> <li>• UW Dempsey Business Plan Competition finalists 2022 and 2023, Featured in <u>Geekwire</u> and UW's <u>The Daily</u></li> </ul>	
<b>Software Engineering Intern</b>	Jun. 2022 - Sep. 2022
<i>Microsoft - Digital Employee Experience, Experiences &amp; Devices</i>	<i>Redmond, WA</i>
<ul style="list-style-type: none"> <li>• Created an administrator portal within an HR application (completed design, development, testing, and deployment to production)</li> </ul>	
<b>Mentor &amp; Program Lead</b>	Jan. 2021 - Jun. 2022
<i>UW Changemakers in Computing</i>	<i>Seattle, WA</i>
<ul style="list-style-type: none"> <li>• Led summer program for high school students with underrepresented identities in tech</li> <li>• Developed original coding and sociotechnical lessons (e.g., on bias in artificial intelligence)</li> <li>• Hired and trained a new cohort of mentors</li> </ul>	

## TEACHING EXPERIENCE

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<b>Teaching Assistant, University of Washington</b>	Jan. 2024 – March. 2024
<i>CSE484: Computer Security &amp; Privacy</i>	<i>Seattle, WA</i>
<b>Teaching Assistant, University of Washington</b>	Sep. 2024 – Dec. 2024
<i>CSE190b: Direct Admission Seminar</i>	<i>Seattle, WA</i>

## SERVICE

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<b>High School Mentor</b>	Dec. 2020 – Jun. 2021
<i>UW Society of Women Engineers</i>	<i>Seattle, WA</i>
<b>Academic Excellence Chair</b>	Dec. 2020 – Jun. 2021
<i>UW Kappa Delta</i>	<i>Seattle, WA</i>