Minneapolis, MN

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# Summary.

Computer Science PhD candidate at University of Minnesota specializing in human-computer interaction (HCI) and social computing. I'm a jack-of-all-trades researcher who **excels with a variety of methods, both qualitative and quantitative**. I'm an "intrapreneur" by nature; I'm always thinking about how the systems supporting my work could be better, and I **proactively put my new ideas into action**.

# Work Experience

### **GroupLens Research, University of Minnesota - Twin Cities**

Minneapolis, MN
May 2020 - present

**GRADUATE RESEARCHER** 

• Co-authored peer-reviewed publications at top HCI venues (see Publications section).

- Led multiple research projects: collaboratively **developed new research ideas**, ran weekly research meetings, set and scheduled deliverables, solicited and implemented feedback from senior collaborators, mentored junior collaborators, and otherwise handled many of the logistics involved in producing high-quality HCI research.
- Formulated and investigated novel research questions using a varied mixed methods toolbox including user interviews, experiments, system development (including user-centered design and prototyping), qualitative inductive thematic analysis, and exploratory quantitative and statistical analysis.

Wikimedia Foundation San Francisco, CA

RESEARCH INTERN

May 2022 - August 2022

- Designed, implemented, and deployed an online recommender system-based experiment to hundreds of active Wikipedia editors over 3
  months
- Presented research plan and experimental design proposal to the Wikimedia Foundation's Research Team.
- Drafted detailed study documentation for IRB approval and review/iteration with collaborators.
- Wrote original code to implement experiment on an existing open-source recommender system.
- Conducted all statistical modeling and analysis.

## **Harvard Business School Online**

Boston, MA

Data Science Intern

May 2021 - August 2021

- Independently conducted exploratory research to identify behavioral predictors of student success in online business school courses.
- Created foundational data products to facilitate future research by various stakeholder groups.
- Communicated key findings to diverse teams with varying levels of technical knowledge.

### **Knights Lab, University of Minnesota - Twin Cities**

Minneapolis, MN

June 2016 - May 2019

GRADUATE RESEARCHER

May 2019 - May 2020

- Co-authored peer-reviewed publications in top-tier venues at the intersections of computation and medicine, microbiology, biophysics, and nutritional science (see Publications section).
- Leveraged high-powered super-computing resources to process and analyze large metagenomic datasets.

Union Street Media Burlington, VT

• Proposed, led, and piloted company's adoption of A/B testing to improve conversion rates.

- Evaluated platform features and worked with engineering team to propose, test, and implement improvements.
- · Collaborated with support team to preempt common issues, reduce issue resolution times, and train new staff.
- Worked closely with project coordinators to iterate on client feedback and ensure timely product deliveries.

## Education

WEB DEVELOPER

#### **University of Minnesota - Twin Cities**

Minneapolis, MN

Ph.D. IN COMPUTER SCIENCE

2024 (expected)

**University of Minnesota - Twin Cities** 

Minneapolis, MN

M.S. IN COMPUTER SCIENCE

2022

• GPA: 4.0

# Middlebury College

## Middlebury, VT

2016

B.A. IN COMPUTER SCIENCE AND PHILOSOPHY

- GPA: 3.63
- Graduated Magna Cum Laude, with Computer Science departmental honors

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# **Peer-Reviewed Publications**

- M. Houtti, I. Johnson, L. Terveen. 2024. Leveraging Recommender Systems to Reduce Content Gaps on Peer Production Platforms. *International AAAI Conference on Web and Social Media (ICWSM)*. https://doi.org/10.48550/arXiv.2307.08669.
- M. Houtti, M. Zhou, L. Terveen, S. Chancellor. 2023. "All of the White People Went First": How Video Conferencing Consolidates Control and Exacerbates Workplace Bias. *Proceedings of the ACM on Human-Computer Interaction (CSCW)*. https://doi.org/10.1145/3579597.
- M. Houtti, I. Johnson, J. Cepeda, S. Khandelwal, A. Bhatnagar, L. Terveen. 2022. "We Need a Woman in Music": Exploring Wikipedia's Values on Article Priority. *Proceedings of the ACM on Human-Computer Interaction (CSCW)*. https://doi.org/10.1145/3555156.
- C. Zhang\*, **M. Houtti\***, C.E. Smith, R. Kong, L. Terveen. 2022. Working for the Invisible Machines or Pumping Information into an Empty Void? An Exploration of Wikidata Contributors' Motivations. *Proceedings of the ACM on Human-Computer Interaction (CSCW)*. https://doi.org/10.1145/3512982. (\*co-first authors)
- K.J. Tompkins, **M. Houtti**, ..., W.R. Gordon. 2021. Molecular underpinnings of ssDNA specificity by Rep HUH-endonucleases and implications for HUH-tag multiplexing and engineering. *Nucleic Acids Research*. https://doi.org/10.1093/nar/gkaa1248.
- R.A.T. Mars, Y. Yang, T. Ward, **M. Houtti**, ..., P.C. Kashyap. 2020. Longitudinal Multi-omics Reveals Subset-Specific Mechanisms Underlying Irritable Bowel Syndrome. *Cell*. https://doi.org/10.1016/j.cell.2020.08.007.

## Honors & Awards

2023	Best Paper Honorable Mention for "All of the White People Went First", CSCW 2023	Minneapolis, MN
2023	Impact Recognition for "All of the White People Went First", CSCW 2023	Minneapolis, MN
2021	Cisco Research Fellow, University of Minnesota - Twin Cities	Minneapolis, MN
2019	GAGE Fellow, University of Minnesota - Twin Cities	Minneapolis, MN

## **Service**

## **University of Minnesota CSGSA**

Minneapolis, MN

 SLACK COORDINATOR
 2019 - 2021

- Created and managed the official Slack channel for UMN Computer Science graduate students.
- Coordinated with the Computer Science department to help onboard new students.
- Designed and led online activities to build social cohesion during the COVID-19 pandemic.

### **University of Minnesota CSGSA**

Minneapolis, MN

2020 - 2021

RESEARCH AND DISCUSSION SEMINARS COORDINATOR

- Scheduled and coordinated bi-weekly research talks.
- Piloted a new initiative to encourage cross-lab research collaboration.

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