

Tess Eschebach

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Education

University of Chicago

PhD Student, Computer Science

Chicago, IL

September 2023 - Present

University of Michigan - Ann Arbor

*Bachelor of Science in Engineering in Data Science Summa Cum Laude
College of Engineering*

Ann Arbor, MI

2023

*Bachelor of Science in Film, Television, and Media with Distinction
College of Literature, Science, and Arts*

2023

Coursework: Machine Learning, New Media Theory, Artificial Intelligence, Web Systems, Circuits, Online Communities, Digital Bodies, 360 Video, Virtual Reality, Cyber Security

Research Experience

University of Michigan - Ann Arbor

Computational HCI Lab

Research Assistant (November 2021 - September 2023)

- Leading a human subject study surrounding the monetization strategies of educational YouTubers and influences of their algorithmic perceptions on choice of platform
- Crafting a semi-structured interview guide based on in-depth literature review
- Working with an interdisciplinary team to integrate the fields of sociology, art, and human-computer interaction into everyday resistance techniques in online spaces

Digital Water Lab

Research Assistant (May 2021 - May 2022)

- Building water level sensors utilizing PCBs, depth sensors, and custom casing
- Deploying sensors in the field by surveying sites and installing sensors near rivers
- Creating graphical representations of water level sensor data on Grafana and integrating water data from numerous sites into a public map using .geojsons hosted on AWS
- Leading the early stages of collecting GPS elevation data to create more accurate graphs
- Working with Oakland County, Michigan to create custom water level dashboards to help remotely monitor high risk locations to prevent flooding and maintain legal levels

University of Michigan Libraries

Student Library Intern (July 2020 - March 2021)

- Animating videos with Adobe Animate geared towards helping multilingual students engage with library resources, focusing on the multitude of ways to get a book
- Working with language specialists and library staff to translate the video into multiple languages and to develop a understandable visual language for the underlying video
- Writing blog posts about underutilized resources after researching student library use

Presentations

Eschebach, T., Schmidt, J., Kerkez, B. Preventing Flooding Through Data Visualization.
Presented at: Data for Public Good Symposium 6; March 2022; Ann Arbor, MI.

Exhibition History

Eschebach, T. Consume. Exhibited at: Digital Studies Institute “Amplify: DSI Student Showcase”; April 2023; Ann Arbor, MI

Eschebach, T. Making Memories. Exhibited at: Digital Studies Institute “Amplify: DSI Student Showcase”; April 2022; Ann Arbor, MI

Teaching Experience

University of Chicago **Chicago, IL**
Intro to Computer Science - CMSC 14100 Instructional Assistant (January 2024 - March 2024)

University of Michigan - Ann Arbor, College of Engineering **Ann Arbor, MI**
Intro to Computer Security - EECS 388 Instructional Assistant (December 2022 - April 2023)
Instructional Assistant - Project Development (June 2023 - July 2023)

- Teaching a lecture style discussion section reinforcing topics and presenting new material
- Holding office hours to answer student questions on course projects and cyber security
- Setting rubric for a subsection of exam questions and grading exams with a team of IAs
- Increasing accessibility by clarifying project descriptions and shorting project start up
- Aiding the development of course materials integrating Autopsy, Tor, and HTML sites

University of Michigan - Ann Arbor, School of Information **Ann Arbor, MI**
Online Communities - SI 429 Instructional Assistant (August 2022 - December 2022)

- Assisting with activities during class periods and answering student questions
- Grading weekly reading responses and providing feedback on large class assignments
- Setting up Canvas page for the full term including graded assignments and readings
- Creating and moderating Discord community for the class to promote online engagement

Leadership Experience

The University of Chicago **Chicago, IL**
Library Student Advisory Council Physical Science Rep (January 2024 - Present)

Inter-Cooperative Council **Ann Arbor, MI**
Mich-Minnies Treasurer (May 2022 - August 2023)

- Managing over \$6000 a month to provide food and utilities for 40 plus house residents
- Working with the larger non-profit organization to maintain receipts and reimbursements
- Running budget meetings of 30 plus individuals to vote on specific allocation of funds

Mich-Minnies *Work Manager* (January 2022-May 2022)

- Allocating four hours of chores per week for 40 plus residents of a coop
- Enforcing completion of work and aiding those who needed assistance

University of Michigan - Ann Arbor
Sierra Club

Ann Arbor, MI

Vice President (May 2021 - January 2022)

Officer (September 2020 - May 2021, January 2022 - May 2022)

- Establishing club on campus and helping with formatting structures of meetings
- Facilitating workshops about sustainability and supporting park and game day cleanups
- Representing the University of Michigan chapter of Sierra Club at monthly meetings with Huron Valley Sierra Club and engagement with state-level Sierra Club representatives

Awards

The Daniels Fellowship. The University of Chicago. 2023.

Excellence in Sustainability Honors Cord Program. The University of Michigan. 2022-2023.

Golden Wallet. Winter Annual Meeting. Inter Cooperative Council Ann Arbor. 2023.

Best in Show. Amplify. Digital Studies Institute at The University of Michigan. 2023.

Honorable Mention. Amplify. Digital Studies Institute at The University of Michigan. 2022.

University Honors. The University of Michigan.

Dec. 2018, April 2020, Dec. 2020, Dec. 2021, April 2022, Dec. 2022.

Dean's List. The University of Michigan.

Dec. 2018, Dec. 2019, Dec. 2021, April 2022, Dec. 2022.

James B. Angell Scholar. The University of Michigan. March 2022.

William J. Brainstorm Freshman Prize. The University of Michigan. 2019.

Skills

Programming: C++, Python (PyTorch, Pandas, and Hugging Face transformers for LLMs and machine learning in depth), HTML, JavaScript, AWS, MATLAB, SQL, LaTeX, Git, and R

Qualitative Analysis Software: Nvivo and MaxQDA

Qualitative Analysis Skills: open coding, grounded theory,

Hardware: PCB design (Eagle, Verilog, and LTspice), Arduino, soldering

Creative Software: Adobe Suite, Audacity, Unity and Unreal Engine [for VR]

Creative Skills: Cinematography, audio recording, screenwriting, 360 video,