

Tamara Nelson-Fromm

tamaranf@umich.edu / @tamaraniac / tamaraniac.com

EDUCATION

University of Michigan at Ann Arbor, 2020–Present

PhD in Computer Science and Engineering

University of Illinois at Urbana-Champaign, 2016–2020

Bachelor of Computer Science with James Scholar Honors, May 2020

MINOR in Cinema Studies, Certificate in Undergraduate Research

THESIS: *Visualizing Engineering Curriculum Commonalities and Prerequisite Chains*

ADVISOR: Professor Wade Fagen-Ulmschneider

POSTERS AND PRESENTATIONS

Nelson-Fromm, T. **Visualizing Curriculum Commonalities and Prerequisite Chains Through Metro Maps.** 2020
(Virtual) Undergraduate Research Symposium, University of Illinois at Urbana-Champaign, April 2020.

[Outstanding, top 0.5% of presentations]

AWARDS

Outstanding Poster in Science & Mathematics, UIUC Undergraduate Research Symposium, April 2020

University of Illinois at Urbana-Champaign Achievement Scholarship, 2016–2020

Society of Women Engineers & Northrop Gruman Scholarship, 2018

Illinois Computer Science John Deere Scholar, 2018

TEACHING

Course Assistant, CS 225: Data Structures, University of Illinois at Urbana-Champaign, Spring 2019 & Fall 2020

Assistant Director (Summer 2019) & Lead Instructor (Summer 2018), iDTech Camps, Macalester College

Instructor, ENG 100: Engineering Orientation, University of Illinois at Urbana-Champaign, Fall 2018

UNIVERSITY AND DEPARTMENTAL SERVICE

Undergraduate Studies Committee, Computer Science, University of Illinois at Urbana-Champaign, 2020

Women in Computer Science, Executive Board, University of Illinois at Urbana-Champaign, 2018–2019

Engineering Undeclared Advisory Council, University of Illinois at Urbana-Champaign, 2017–2018

Alpha Omega Epsilon Engineering Sorority, Theta Chapter, Officer, 2017–2018

Society of Women Engineers, Illinois Chapter, Committee Chair, 2016–2017

INDUSTRY EXPERIENCE

Software Engineering Intern, HubSpot

Cambridge MA (Remote), Summer 2020

Impact Fellowship, Impact Labs

New York City NY, Winter 2020

A selective (<5%) programming fellowship equipping and inspiring the next generation of social entrepreneurs. Connected with speakers and leaders from NGOs, social startups, think tanks, and philanthropic organizations.

PUBLIC SCHOLARSHIP

Tools and Visualizations

Nelson-Fromm, T., and Fagen-Ulmschneider, W. (May 11 2020). **The Grainger Engineering Metro Map**. *d7: Data Science Research Collaborative*. <https://d7.cs.illinois.edu/projects/Grainger-Engineering-Metro-Map/>

Nelson-Fromm, T., Cao, G., Raj, S., and Fagen-Ulmschneider, W. (December 4 2019). **Gender Diversity of Course Instructors at Illinois**. *d7: Data Science Research Collaborative*. <https://d7.cs.illinois.edu/projects/Gender-Diversity-of-Course-Instructors/>

SKILLS

Programming: C, C++, Haskell, HTML/CSS, Java, JavaScript, Python, SQL

Languages: English (Native), Spanish (Fluent)