

BRENNAN SCHAFFNER

brennanschaffner.com \diamond brennanschaffner@gmail.com

EDUCATION

University of Chicago, IL

Second Year Ph.D. student in Computer Science

2020-Present

Research area: Human Computer Interaction

I am currently involved in projects related to manipulative online interfaces, ethical data collection, recommendation engines' impact on user-agency, and artistic demonstrations of surveillance.

University of St. Thomas, MN

B.S. in Computer Science

Class of 2020

B.A. in Physics

Dean's list every semester

Minor in Mathematics

GPA: 3.87/4.00

PAPERS

Peer-reviewed:

1. N. LINGAREDDY, **B. SCHAFFNER**, AND M. CHETTY. Can I Delete My Account?: Dark Patterns In Account Deletion On Social Media. CHI 2021: *Workshop on What Can CHI do About Dark Patterns?*.
2. B. TRAN, **B. SCHAFFNER**, J. MYRE, J. SAWIN AND D. CHIU. Exploring Means to Enhance the Efficiency of GPU Bitmap Index Query Processing. DSE 2020: *2020 Data Science and Engineering Journal*.
DOI: 10.1007/s41019-020-00148-8
3. B. TRAN, **B. SCHAFFNER**, J. MYRE, J. SAWIN AND D. CHIU. Increasing the Efficiency of GPU Bitmap Index Query Processing. DASFAA 2020: *International Conference on Database Systems for Advanced Applications*.
DOI: 10.1007/978-3-030-59419-0-21
4. **B. SCHAFFNER**, J. SAWIN AND J. MYRE. Smartphones as Alternative Cloud Computing Engines: Benefits and Trade-offs. FICLOUD 2018: *IEEE 6th International Conference on Future Internet of Things and Cloud*, pp. 244-250.
DOI: 10.1109/FiCloud.2018.00043

Preprints and Work in Submission:

1. **B. SCHAFFNER**, N. LINGAREDDY, AND M. CHETTY. Understanding Account Deletion and Relevant Dark Patterns On Social Media. *To appear at CSCW 2022*.
2. S. WANG, K. MACMILLAN, **B. SCHAFFNER**, N. FEAMSTER, M. CHETTY. A First Look at the Consolidation of DNS and Web Hosting Providers. *arXiv:2110.15345 [cs.NI]*, October 2021.
3. **B. Schaffner**, A. Brohn, J. Chee, K. Feng, M. Chetty. Designing and Testing a Mobile Application for Collecting WhatsApp Chat Data. *Under Review at SOUPS 2022*.

TALKS

CSCW 2022

October, Taipei, Taiwan (Up-Coming, Virtual)

Understanding Account Deletion and Relevant Dark Patterns On Social Media.

AWARDS AND HONORS

University Unrestricted Fellowship for excellence in research	<i>Spring 2022</i>
Crerar Fellowship - University of Chicago Computer Science Department	<i>2020-2021</i>
NSF Funded Researcher at the University of Maryland	<i>Summer 2019</i>

REGULATORY COMMENTS

European Data Protection Board (EDPB)

Request for Comments on their “Guidelines 3/2022 on Dark patterns in social media platform interfaces: How to recognise and avoid them”

Comment Submitted May 2022.

Feedback Reference: 03/2022-0023

Federal Trade Commission (FTC)

Request for Comments Regarding Topics to be Discussed at Dark Patterns Workshop

Comment Submitted May 2021.

Comment ID: FTC-2021-0019-0111

PROJECTS

Press this Button to Make Amazon Richer

2021

In a collaboration with the School of the Art Institute of Chicago, we created an artistic demonstration of how Amazon uses home security system such as Ring Doorbells to build a network of surveillance and wealth.

Observing Information Dissemination

2020-2021

Amidst the ascent of COVID-19, government messaging and mandates varied widely across US states. We studied how the responses differed among internet communities corresponding to the governed populations.

REU in Combinatorics and Algorithms for Real Problems

2019

Try `pip install qspd`.

Under Andrew Childs, we developed a python packate that implements Jeongwan Haah’s algorithm for quantum signal processing decomposition. It includes a step by step algorithm that decomposes periodic functions (often from quantum signal processing) into a product of primitive matrices, represented as a list of rotation angles. Available on the Python Package index.

TEACHING

University of St. Thomas - Minnesota

Mathematics Tutor (2018 - 2020)

- MATH 005-104 Basic Math Skills, Math Sampler, College Algebra, Trigonometry
- MATH 105-114, Precalculus, Calc I, Calc II, Calc for Business and Social Science
- MATH 128 Introduction to Discrete Mathematics
- MATH 200 Multi-Variable Calculus

RESEARCH MENTORING

Masters Students:

Antonia Stefanescu, *University of Chicago, Master of Arts Program in the Humanities* (2021).

Undergraduate Students:

Neha Lingareddy, *University of Chicago, Major: Computer Science* (2021).
Jiatong Lee, *University of Chicago, Major: Physics* (2022).
Olivia Campili, *University of Chicago, Major: Computer Science* (2022).

OTHER

Paper Reviewer for CSCW 2022