OLIVER ALLEN

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EDUCATION

Indiana University, Bloomington IN
Bachelor of Science in Computer Science with Specialization in Data Science   **May 2022**
Bachelor of Science in Math   **Cumulative GPA: 3.985/4.000**
Minor: Art History

Northeastern University, Boston MA
Doctor of Philosophy in Network Science   **September 2022 - Ongoing**

AWARDS

Provost Scholarship	Fall 2019 – Spring 2022
Executive Dean's List	Fall 2018 – Spring 2021
Founders Scholar	Fall 2018 – Fall 2020
Advanced Summer Research Scholarship	Summer 2020
Mathematics Departmental Award for Academic Excellence	Spring 2022

RESEARCH EXPERIENCE

Lazer Lab, Boston MA
Graduate Research Assistant   **September 2022-Present**
- Investigate the "Cottagecore to Tradwife" pipeline to extremism on Tumblr through network modeling of ~180,000 Tumblr posts
- Assist on various projects including brand engagement and political affiliation on Twitter and adding images to the Twitter data infrastructure
- Attend weekly lab meetings where members present and critique current projects and discuss relevant literature

IU Observatory on Social Media, Bloomington IN
Undergraduate Researcher   **February 2020-July 2022**
- Produced and presented a poster showing how advertisers used Ukraine as a political tool in Facebook sponsored content at International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2022).
- Detected suspicious users in retweet networks by applying methods for trust propagation through P2P and web networks to data gathered from Twitter, and produced an academic paper detailing results and implications.
- Attended weekly lab meetings where members present and critique current projects in the field of social media, network science, and bot detection.

Information Sciences Institute, Los Angeles CA
Research Experience for Undergraduates Intern   **June 2021-August 2021**
- Identified and classified 1.3 million images posted during the Stop Asian Hate movement on Twitter and analyzed how image design and composition was tied to user credibility, political leaning, and network structure using R, Python, and high-performance computing via Slurm
- Produced a poster and written report which were accepted to an REU workshop and presented findings in weekly meetings with REU students and faculty

IU Food Institute Critical Food Studies Lab, Bloomington IN
Lab Manager/Undergraduate Researcher   **March 2019-September 2022**
- Manage day to day tasks including answering emails, updating the lab website, and assisting on various projects in the lab as needed
- Processed and visualized data for the Bloomington Food Access Project
- Built a dataset using R from NHANES survey responses to reconstruct and analyze the calculation in the Thrifty Food Plan program.

IU Societal Computing Lab, Bloomington IN
UX Designer & Illustrator   **January 2021-June 2021**
- Developed prototypes based on both Zoom and Facebook group interview data to facilitate the study of technology as a means to alleviate HIV-related stigma.
- Drew storyboards for data collection packets to address transportation barriers of underserved rural communities.

IU Cognitive Development Lab, Bloomington IN
Undergraduate Researcher   **June 2019-March 2020**

- Performed Data collection and analysis for eye-tracking study of multi-digit number acquisition in young children, used Pupil-Labs software and hardware and constructed full data pipeline from raw eye-tracker data to time series plots, wrote programs in python and R to check calibration.
- Built a web app designed to assist with data visualization using the Shiny module and GGplot2 where one can input tidy data and generate plots while filtering or wrapping by selected columns.

WORK EXPERIENCE

Trust & Safety Laboratory Inc., Palo Alto, CA   **May 2023– August 2023**
Trust & Safety Data Analytics Intern
- Developed Tableau Dashboards and analytical tools for four projects related to regulatory compliance for online content safety, as well as analytics of harmful content on social media platforms
- Interacted closely with senior leaders and other members of the team to analyze, compile, and present new and updated tools to be used both internally and externally by government agencies and large social media companies

BroadStreet Health LLC, Milwaukee, WI   **October 2020 – February 2021**
Design Intern & December Cohort Coordinator
- Created an eight image LinkedIn Campaign and various other illustrations to promote BroadStreet's values and increase traffic to the COVID-19 Data Project.
- Managed a cohort of ~90 interns in a remote work environment and met with leadership weekly to discuss project directions.

Luddy School of Informatics, Computing and Engineering, Bloomington, IN   **August 2019 – January 2021**
Undergraduate Instructor
- Taught Courses with ~70 students including introductory Python and Java
- Led Weekly lab sessions with ~30 students and held weekly office hours to provide individual help to students
- Reviewed with other undergraduate instructors and professor to discuss teaching strategies, grading, and course policies

CONFERENCES/PUBLICATIONS

Participant at **Visualizing Complexity Science Workshop 2023**, Vienna, Austria   **2023**

"From Flowers to Fascism: The Cottagecore to Tradwife Pipeline"
Oliver Allen
Presented as a poster at Stanford Trust and Safety Research Conference 2023   **2023**

"Ukraine as a Political Tool in Facebook Sponsored Content"
Oliver Allen, Filippo Menczer
Presented as a poster at ASONAM 2022   **2022**

"News Sharing Networks Expose Information Polluters on Social Media"
Bao Truong, **Oliver Allen**, Filippo Menczer
Presented as a poster at IC2S2-22   **2022**

"Pictures as a Form of Protest: A Survey and Analysis of Images Posted During the Stop Asian Hate Movement on Twitter"
Oliver Allen, Emily Chen, Emilio Ferrara
Seventh National Workshop for REU Research in Networking and Systems (REUNS)   **2021**

"Bloomington Food Access Report"
Angela Babb, Kamila Czebotar, **Oliver Allen**
Submitted to Bloomington City Council   **2021**

"Trustie: Applications of Trust Propagation Algorithms to Retweet Networks"
Oliver Allen, Filippo Menczer
IUUR Summer 2020 Poster Symposium   **2020**

"Farm Justice and Parity Pricing"
Laxmi Prasanna Palde, Kassandra Leuthart, Nicholas Monroe, **Oliver Allen**, Kamila Czebotar, Kathleen Lich, Angela Babb, Daniel Knudsen
Journal of Rural Studies (in revision)   **2020**