Alyssa Chen

□ (973) 568-2886 | ■ alyssachen@college.harvard.edu | ★ www.alyssachen.me | ■ alyssa-t-chen

Education

Harvard University Cambridge, MA

A.B. CANDIDATE IN STATISTICS

May 2023

- **GPA** 3.95 (on a 4.0 scale)
- **Selected Coursework** Machine Learning (@MIT), Data Structures and Algorithms, Biological and Artificial Intelligence, Economics of Networks, Fairness and Validity in Algorithms (graduate), Group Theory, Probability, Statistical Inference, Theoretical Linear Algebra, Real Analysis, Public Speaking Practicum
- **Publications** C. Yeo and A. Chen. "Defining and Evaluating Fair Natural Language Generation." *Proceedings of the The Fourth Widening Natural Language Processing Workshop at ACL 2020.*

The Pingry SchoolBasking Ridge, NJ

Valedictorian May 2018

• ACT: 36/36. SAT: 1590/1600.

Experience_

Facebook | Instagram for Business

Menlo Park, CA / Remote

DATA SCIENCE INTERN

May 2021 - August 2021

- Presented 2 data-driven reports with user segmentation analyses and product recommendations to XFN team.
- Demonstrated content quality of Instagram API-published posts using Presto, Python, and Tableau.
- Created 20+ visualizations using Matplotlib and Tableau to illustrate API usage.

Datavant | COVID-19 Research Database

San Francisco, CA / Remote

RESEARCH SUPPORT INTERN

December 2020 - May 2021

- Supported 215 researchers from state governments (HI, MA) and universities using a pro-bono database of over 85 billion patient-level medical records held in Snowflake and Amazon WorkSpaces.
- Wrote over 2000 lines of SQL to assist >20 research projects and to present preliminary findings to the NIA and FDA.

Secure AI Labs (SAIL)

Cambridge, MA / Remote

DATA SCIENCE INTERN

May 2020 - August 2020

- Developed and tested an accuracy-preserving federated version of XGBoost for SAIL's secure computing platform.
- Researched methods for developing differentially private versions of common algorithms.

Harvard University | Cognitive Computational Neuroscience Lab

Cambridge, MA

RESEARCH ASSISTANT

June 2019 - September 2019

- Calculated correlation in performance of 4-layer RNNs and 8 major language areas of the brain using Representational Similarity Analysis.
- Parallelized computing tasks using MATLAB, bash scripting, and cluster computing.

Extracurricular ___

WHRB (Harvard Radio Broadcasting) 95.3FM

Cambridge, MA

CO-DIRECTOR (SINCE JAN 2020) AND MEMBER OF JAZZ DEPARTMENT

September 2018 - January 2020

 $\bullet \ \ Coordinated \ social \ events \ and \ managed \ 40-hour \ weekly \ jazz \ air \ across \ more \ than \ 30 \ active \ members \ of the \ department.$

Harvard School of Engineering and Applied Sciences

Cambridge, MA

TEACHING FELLOW

January 2020 - May 2020

• Taught sections, held office hours, and graded student work for Michael Mitzenmacher's Data Structures and Algorithms.

Skills and Interests _

Programming Python (including Pandas, NumPy, and Scikit-learn), SQL, MATLAB, R

Technical Data structures and algorithms, Machine learning, Statistical inference, Data visualization (Tableau)

Activities Harvard IOP STEAM Program, Smart Woman Securities

Interests Dramatic writing, flute, voice, calligraphy and hand lettering