# **ALEX ZHAO**

 $(818) \cdot 334 \cdot 7096 \diamond axyzhao@berkeley.edu \diamond alzhao.com$ 

Computer science grad published in recommender systems, well-versed in Chinese.

#### **EDUCATION**

## Tsinghua University, Schwarzman College

Expected May 2022

Master of Global Affairs

An elite international scholarship designed to prepare global leaders. One of 154 scholars from over 3,600 applicants.

### University of California, Berkeley

August 2017-May 2021

B.S. Electrical Engineering & Computer Science/B.S. Business Administration || GPA: 3.82/4.00

Management, Entrepreneurship, & Technology Program (M.E.T.)

Honors: Regent's & Chancellors' Scholar, four-time Dean's List, Accel Scholars 2020-21, EECS Honors Program

## Berkeley Artificial Intelligence Research (BAIR)

August 2019 - present

Undergraduate researcher advised by Michael I. Jordan, focusing on recommender systems and computer vision.

- · Develop simulation framework for online, feedback-aware evaluation of recommender systems.
- · Evaluate recommender systems based on rating accuracy, fairness, and performance on sparse data in the context of dynamic user behavior.
- · Co-authored three papers on recommender systems in different workshops (see Publications).
- · First author of a paper on AugPrune, a novel pruning algorithm for finding compact, robust networks.

#### PROFESSIONAL EXPERIENCE

<u>Coral Genomics</u> June 2020 - August 2020

Machine Learning Intern

San Francisco, CA

YCombinator-funded startup applying artificial intelligence to personalize medicine

- · Collaborate with two other engineers to create computational pipeline for product launch.
- $\cdot$  Develop novel autoencoder model for genotype imputation on 1000 Genomes data and patient samples.
- $\cdot$  Devise unsupervised clustering methods for high-dimensional clinical genotype data with missing values.

Zalando June 2019 - August 2019

Machine Learning Intern

Berlin, Germany

Largest e-commerce company based in Europe, headquartered in Berlin

- · Applied the Transformer model in Pytorch to customize size & fit recommendations for customers, outperforming existing models across all accuracy metrics.
- · Co-authored paper on recommendation algorithms (accepted at Workshop on Recommender Systems in Fashion 2020).

# National Geographic

September 2018 - December 2018

Data Science Intern

Washington, D.C.

- · Analyzed 14 terabytes of session data on over a million National Geographic customers using Google BigQuery & Python to improve digital content.
- · Applied natural language processing models to web-scraped articles to identify trends in successful content & devise guidelines on tone & media integration for staff writers.

Pivotal Software

May 2018 - August 2018

San Francisco, CA

Software Engineering Intern

- · Updated & integrated command line interface written in Golang to support new Cloud Controller API.
- · Pair-programmed daily with small team for 12 weeks on Cloud Foundry, an open source multi-cloud platform.
- · Gained experience in distributed architecture, test-driven development, & continuous deployment to AWS & GCP.

#### **EXTRACURRICULARS**

POLITICO
Data Science Intern

Projects Editor

June 2021 - August 2021

Washington, D.C.

- · Published stories on federal politics featuring interactive graphics on a small team of data journalists.
- · Analyzed large datasets with Python and coded data visualizations for articles using React and D3.js.

### The Daily Californian

February 2020 - June 2021

Berkeley, CA

· Report on challenges in higher education through data-driven journalism and lead team of ten developers.

· Awarded Best Multimedia Package (1st) and Best Interactive Graphic (2nd place) by California College Media Association.

## REFEREED PUBLICATIONS & PRESENTATIONS

- **A. Zhao**, K. Kumaravel, E. Massaro, M. Gonzalez, "A Network-based Group Testing Strategy for Colleges." Paper accepted with revisions at Applied Network Science, September 2021.
- **A. Zhao**, Y. Yang, X. Yue, Z. Liu, E. Ye, Y. Zhou, V. Shirsat, M. Mahoney, J. Gonzalez, K. Ramchandran, K. Keutzer. "AugPrune: Robust Network Pruning via Augmented Data." Under review at ICLR, 2021.
- K. Hajjar, J. Laserre, A. Zhao, R. Shirvany, "<u>Attention Gets You the Right Size & Fit in Fashion</u>." Paper presented at Workshop on Recommender Systems in Fashion at Recsys, 2020.
- K. Krauth, **A.Zhao\***, S. Dean\*, W. Guo\*, M. Curmei\*, B. Recht, M. Jordan, "<u>Do Offline Metrics Predict Online Performance in Recommender Systems?</u>" Paper presented at NeurIPS Workshop on Consequential Decision Making in Dynamic Environments, 2020. Position paper at SimuRec Working Group, RecSys 2021.