

Jinjin Zhao

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INTERESTS Systems for Machine Learning, Cloud/Distributed Systems, Databases

EDUCATION **University of Chicago** June 2024 (est.)
Computer Science, PhD, Advisor: Sanjay Krishnan

Princeton University, *Summa Cum Laude* June 2019
Computer Science, Bachelor of Science in Engineering
Statistics and Machine Learning, Minor

PROJECTS **Information Leakage in Data Science.** “Bugs” in data science can occur when information boundaries between data samples and data sources are not preserved. Proposing a system that adapts database provenance techniques to track lineage in data science projects, and detects/prevents information leakage “bugs”.

ChiVideo: A Spatially Partitioned Storage Manager for Video Analytics. Presenting a query and computation framework for video analytics. Implementing a partitioning algorithm that divides videos spatially and temporally over distributed nodes for efficient retrieval and analysis. [Paper] (In progress). [Github].

Human Behavior Detection with IoT Network Traffic and Video. Collaborating with NOISE Lab at UChicago to detect human interactions from IoT devices using network traffic packets and video, with machine learning and time-series anomaly detection. Investigating trade-off between computation and accuracy in a multi-stream scenario.

Analysis of the Plasma Pedestal in Tokamak Fusion Experiments. Prediction of the plasma pedestal is important for controlling plasma-wall interactions in nuclear fusion. Collected 2 years of experimental data from the DIII-D tokamak machine in San Diego, and applied a fully-connected neural network to the data. [Thesis] (Undergraduate). [Paper] (In-progress).

WORK **Research Intern** **Princeton Plasma Physics Lab**
EXPERIENCE June 2018 - July 2018 Princeton, NJ

Software Engineering Intern **Facebook**
June 2017 - August 2017 Seattle, WA

Facebook University Intern **Facebook**
June 2016 - August 2016 Menlo Park, CA

TEACHING
EXPERIENCE

CDAC Lab Coordinator

May 2020 - August 2020

Coordinated data science research summer program.

Led machine learning team (12 students).

University of Chicago

Chicago, IL

Teaching Assistant

University of Chicago

Honors Introduction to Programming, I.

Data Science For Computer Scientists

CMSC 16100, 21800

Autumn 2019

Teaching Assistant

Princeton University

Mobile Computing Design for Assistive Technology.

COS 397/497

Fall 2018

CONFERENCE
PRESENTATIONS

Zhao, J., Kolemen, E., Li, X., & Laggner, F. (2018, Nov). *Experimental Based Pedestal Prediction using Machine Learning*. Poster session presented at the 60th Annual Meeting of the American Physical Society Division of Plasma Physics, Portland, Oregon [pdf].

ACTIVITIES/
AWARDS

OSDI '20 Diversity Grant, USENIX Association

Curriculum/Social Minister, UChicago CS Graduate Student Ministry

Neubauer Graduate Scholarship, University of Chicago (\$45000)

ChatterWorks, 2016 YHacks 1&1 Prize Winner