

Wenhao PAN

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EDUCATION

University of Washington, Seattle Seattle, WA
Ph.D. in **Statistics** 09/23 - 06/27 (expected)

- Coursework: Big Data, Bandits, Stochastic Processes, Advanced Statistical Testing, High-Dimensional Statistics.

University of California, Berkeley Berkeley, CA
B.A. in **Statistics** and B.A. in **Computer Science** (*Summa cum laude*) 08/19 - 05/23

- Coursework: Deep Learning, Convex Optimization, Data/Machine Structures, Causal Inference, Time Series, Linear Models.

INDUSTRY EXPERIENCE

Amazon Science | Manager: Mengfei Cao New York, NY
Incoming Applied Scientist Intern in Supply Chain Optimization Technologies and Forecasting Science 06/25 - 09/25

- Expected to build highly customized transformers that produce probabilistic output to predict sales on different granularities.

RESEARCH EXPERIENCE

Paul G. Allen School of Computer Science | Advisor: Kevin Jamieson Seattle, WA
Research Assistant in Bandit Algorithms for Matrix Completion and Recommender Systems 11/24 - Present

- Developed confidence bounds for error under non-uniform sampling for matrix completion with contextual bandits.

UW Witten Group | Advisor: Daniela Witten Seattle, WA
Research Assistant in Statistical Methodology for Selective Inference ([code](#)) 08/23 - 02/24

- Boosted the statistical power of Data Thinning on Poisson count data in R by 85.4% by rank-transformed subsampling.

Berkeley Artificial Intelligence Research Lab | Advisor: Anil Aswani Berkeley, CA
Research Assistant in Optimization Algorithms for Image Demosaicing ([code](#)) 05/22 - 05/23

- Reduced demosaicing time for a 90x60 pixel image by 86.7%, from approximately 11,300 seconds to 1,500 seconds.

Lawrence Berkeley National Laboratory | Advisor: Haichen Wang Berkeley, CA
Research Intern in Deep Learning for Particle Physics ([poster](#)) 01/22 - 01/23

- Raised the accuracy of a Transformer trained on Cori cloud cluster for Higgs bosons on rare samples from 26% to 43%.

Oski Lab | Advisor: Cyrus Dioun Berkeley, CA
Research Assistant in Automated Cannabis Product Classification ([code](#)) 02/21 - 10/22

- Optimized Keras TextCNN and Pytorch BERT models to achieve 93.7% and 95.3% average F1-scores on the test set.

PUBLICATIONS

- **Pan, W.**, Aswani, A. and Chen, C. (2023), Accelerated Nonnegative Tensor Completion via Integer Programming. *Frontiers in Applied Mathematics and Statistics*, 9, p.1153184.

PERSONAL PROJECTS

Sequential Investment and Universal Portfolio Algorithms 03/24 - 06/24

- Developed and executed portfolio selection algorithms on FAANG stock data spanning 2019 to 2024 ([report](#)).

Classifying and Interpreting Moral Judgment with Reddit Data 03/24 - 06/24

- Applied BERT, LightGBM, and BERTopic to identify key factors shaping moral judgments in Reddit posts ([report](#)).

TEACHING EXPERIENCE

University of Washington, Seattle | Teaching Assistant Seattle, WA

- STAT 513, Statistical Inference. 01/25 - 03/25
- STAT 516, Stochastic Modeling of Scientific Data. 09/24 - 12/24
- STAT 390, Statistical Methods in Engineering and Science. 06/24 - 08/24
- CSE 416, Introduction to Machine Learning. 03/24 - 06/24
- STAT 180, Introduction to Data Science. 01/24 - 03/24