Wenhao PAN

wenhaop.github.io | linkedin.com/in/wenhao-pan-uw | wenhaopanwork@gmail.com | Seattle, WA

EDUCATION

University of Washington, Seattle — Seattle, WA
Ph.D. in **Statistics** — 09/23 - 06/28
• Coursework: Big Data, Bandits, Stochastic Processes, Advanced Statistical Testing, High-Dimensional Statistics, NLP.

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 | Manager: Mengfei Cao | Mentor: Malcolm Wolff — New York, NY
Applied Scientist Intern in Supply Chain Optimization Technologies – Forecasting — 06/25 - 12/25
• Enhanced time series forecasting foundation models for zero-shot tasks by incorporating statistical methods like ARIMA.

RESEARCH EXPERIENCE

Paul G. Allen School of Computer Science | Advisor: Kevin Jamieson — Seattle, WA
Research Assistant in Bandit Algorithms for Recommender Systems — 11/24 - Present
• Developing novel bandit algorithms for recommender systems by deriving error bounds for non-uniform matrix completion.

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 Poisson count analysis by 85.4% by employing a subsampling algorithm for Data Thinning.

Berkeley Artificial Intelligence Research Lab | Advisor: Anil Aswani — Berkeley, CA
Research Assistant in Optimization Algorithms for Image Demosaicing (code) — 05/22 - 05/23
• Accelerated a demosaicing algorithm by over 7.5x, slashing image processing time by 86.7% (from 3 hours to 25 minutes).

Lawrence Berkeley National Laboratory | Advisor: Haichen Wang — Berkeley, CA
Research Intern in Deep Learning for Particle Physics (poster) — 01/22 - 01/23
• Improved rare-sample prediction for Higgs boson events by 65% by boosting a Transformer's accuracy from 26% to 43%.

Oski Lab | Advisor: Cyrus Dioun — Berkeley, CA
Research Assistant in Automated Cannabis Product Classification (code) — 02/21 - 10/22
• Fine-tuned TextCNN (Keras) and BERT (PyTorch) text classifiers, achieving F1-scores of 93.7% and 95.3% respectively.

PAPERS

• Oreshkin, B. N., Jauhari, M., Selvam, R. K., Wolff, M., **Pan, W.**, Ramasubramanian, S., ... & Wilson, A. G. (2026). Zero-shot Forecasting by Simulation Alone. *arXiv preprint arXiv:2601.00970*.
• **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

Classifying and Interpreting Moral Judgment with Reddit Data (report) — 03/24 - 06/24
• Utilized BERT to pinpoint the core determinants of moral judgments within large-scale Reddit datasets.

Time Series Analysis on the Stock Price of Tesla Inc. (report) — 08/21 - 12/21
• Engineered ARIMA to forecast Tesla's daily closing price, validating its performance against two years of market data.

TEACHING EXPERIENCE

University of Washington, Seattle | Teaching Assistant — Seattle, WA
• STAT 516, Stochastic Modeling of Scientific Data. — 09/24 - 12/24
• CSE 416, Introduction to Machine Learning. — 03/24 - 06/24

SKILLS

• Languages: Python, R, SQL, Java, C++. | Libraries: NumPy, Pandas, SciKit, Matplotlib, PyTorch, PySpark, HuggingFace.