KEVIN CHRISTIAN WIBISONO

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EDUCATION

University of Michigan

Ann Arbor, MI

PhD in Statistics (advised by Dr Yixin Wang; GPA: 4.0/4.0)

2021 - 2026 (expected)

• Research focus: language models, in-context learning, causal inference with text data, regression discontinuity designs.

Columbia University New York, NY

MS in Data Science (GPA: 4.0/4.0) 2019 - 2020

National University of Singapore

Singapore

BS in Applied Mathematics and Statistics (GPA: 4.9/5.0; best graduate in Appl. Math)

2015 - 2019

Fully funded by the Singapore Ministry of Foreign Affairs' Undergraduate Scholarship.

COMPUTING SKILLS

Proficient in Python (including Tensorflow, PyTorch, PySpark, Pandas, Numpy), R (including tidyverse), and SQL.

PUBLICATIONS

Accepted

- Wibisono, K. C. and Wang, Y. (2024). In-Context Learning from Training on Unstructured Data: The Role of Co-Occurrence, Positional Information, and Training Data Structure. Neural Information Processing Systems.
- Ignaccolo, C., Wibisono, K. C., Plunz, R., and Sutto, M. (2024). Tweeting During the Pandemic in New York City: Unveiling the Evolving NYC's Sentiment Landscape Through a Spatiotemporal Analysis of Geolocated Tweets. Journal of Urban Technology.
- Wibisono, K. C. and Wang, Y. (2023). On the Role of Unstructured Training Data in Transformers' In-Context Learning Capabilities. NeurIPS Workshop on Mathematics of Modern Machine Learning.
- Wibisono, K. C. and Wang, Y. (2023). Bidirectional Attention as a Mixture of Continuous Word Experts. Uncertainty in Artificial Intelligence.

In Preparation

- Wibisono, K. C., Mukherjee, D., Banerjee, M., and Ritov, Y. Estimation and Inference for the Average Treatment Effect in a Score-Explained Heterogeneous Treatment Effect Model.
- Wibisono, K. C. and Wang, Y. Causal Inference with Textual Treatments or Outcomes via Maximizing Contrasts.
- Wibisono, K. C. and Wang, Y. Sequential Data Modeling via Exponential Family Embeddings with Attention.

WORK EXPERIENCE

PhD Software Engineer Intern (Rider Structural Pricing), Uber

Jun - Aug 2024

- Applied causal inference techniques to analyze the paycheck effect and its impact on demand and price elasticity.
- Enhanced Uber's demand model by adding paycheck features, improving predictive performance and business metrics.
- Implemented and refined large language model-based data augmentation methods, achieving notable improvements in test AUC and accuracy based on experiments conducted on Uber's demand data.

Junior Data Scientist (Fraud), Walmart

Feb - Jun 2021

Improved fraud detection system via model stacking and advanced feature engineering, reducing losses by around 30%.

Data Scientist Intern (Pricing), Walmart

Jun - Aug 2020

- Developed item-scoring algorithms to inform strategic price investment decisions for each Sam's Club.
- Adapted and implemented natural language processing algorithms to improve item elasticity predictions.

Data Scientist Intern, Portcast

May - Aug 2018

- Devised methods to improve existing cargo demand forecasting models of leading shipping companies.
- Enhanced forecasting accuracy via market signal experimentation, reducing mean absolute percentage errors by 5 to 15%.

TEACHING, MENTORSHIP AND LEADERSHIP EXPERIENCE

- Teaching Assistant for 8 courses, including Data Analysis for Policy Research Using R, Data Mining and Statistical Learning, Analysis of Algorithms, Introduction to Data Science, and Fundamental Concepts of Mathematics.
- Research Supervisor for three undergraduates in exploring large language models' geographical knowledge.
- Events Chair of UM Indonesian Society; Student Mentor of Columbia University's Data Science Institute.

• Reviewer for AISTATS (2023, 2024), NeurIPS (2024) and Cities (2024); Volunteer for NeurIPS and ICSA Symposium (2023).

SELECTED AWARDS

• Rackham International Student Fellowship for exceptional academic and professional promise

2023 2019

• Ho Family Prize as the best student in Applied Mathematics

Silver Medal in the Asian Pacific Mathematics Olympiad

2013 and 2014

Bronze Medal in the International Mathematical Olympiad

2013