Kevin Christian Wibisono

323 West Hall, 1085 South University Avenue, Ann Arbor, MI 48109

Research Interests __

- · Transformers and in-context learning
- · Causal inference with text data
- · Regression discontinuity designs

Education ___

University of Michigan

Ann Arbor, MI, USA

2021 - 2026 (expected)

Ph.D. IN STATISTICS (GPA: 4.00/4.00)

Supervised by Yixin Wang, Ph.D.
Received the Rackham International Student Fellowship for demonstrating exceptional academic and professional promise.

Columbia University

New York, NY, USA

M.S. IN DATA SCIENCE (GPA: 4.00/4.00)

2019 - 2020

• Capstone project: Improving Automatic Event Understanding Through Sequential and Non-sequential Deep Learning Architec-Tures (supervised by Yuval Marton, Ph.D. and Asad Basheer Sayeed, Ph.D.).

National University of Singapore

Singapore

B.Sc. (First Class Honors) in Applied Mathematics and Statistics (GPA: 4.90/5.00)

2015 - 2019

- Honors thesis: Approximate Solutions to the Multivariate Behrens-Fisher Problem (supervised by Zhang Jin-Ting, Ph.D.).
- Completed the *Special Programme in Mathematics*, a program specially designed for students with a strong passion and aptitude for mathematics.
- Received the *Ho Family Prize* as the best student in Applied Mathematics.

Publications

ACCEPTED

<u>Wibisono, K. C.</u> 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 Artifical Intelligence (acceptance rate: 31%).

UNDER REVIEW

Ignaccolo, C., Wibisono, K. C., Plunz, R., and Sutto, M. Tweeting During the Pandemic in New York City: Unveiling the Evolving NYC's Sentiment Landscape Through a Spatiotemporal Analysis of Geolocated Tweets.

IN PREPARATION

<u>Wibisono, K. C., Mukherjee, D., Banerjee, M., and Ritov, Y. Estimation of Non-randomized Heterogeneous Treatment Effects in the Presence of Unobserved Confounding Variables.</u>

Teaching Experience _____

RESEARCH MENTOR, University of Michigan

1. Peihao Li and Terry Shi

Winter 2024

• Undergraduate Research Program in Statistics (URPS) investigating language models' abilities to encode geographical information.

GRADUATE STUDENT INSTRUCTOR, University of Michigan

1. STATS 306: Introduction to Statistical Computing (upper undergraduate level)

Fall 2023

- Designed and taught weekly lab sections (~40 students), held office hours, prepared and graded homework, and graded exams.
- 2. STATS 206: Introduction to Data Science (lower undergraduate level)

Fall 2022 and Winter 2023

- Taught weekly lab sections (~40 students), held office hours, and graded homework and exams.
- 3. STATS 415: Data Mining and Statistical Learning (upper undergraduate level)

Winter 2022

- Designed and taught weekly lab sections (~40 students), held office hours, and graded homework and exams.
- 4. STATS 250: Introduction to Statistics and Data Analysis (lower undergraduate level)

Fall 2022

• Taught weekly lab sections (~40 students), held office hours, and graded homework and exams.

TEACHING ASSISTANT, Columbia University

1. INAF U6614: Data Analysis for Policy Research Using R (graduate level)

Fall 2020

- Designed and taught weekly lab sections (~20 students), developed course website, held office hours, and graded homework and projects.
- 2. CSOR W4231: Analysis of Algorithms (upper undergraduate/graduate level)

Spring 2020

• Held office hours, and graded homework and exams.

TEACHING ASSISTANT, National University of Singapore

1. MA1512: Differential Equations for Engineering (lower undergraduate level)

AY 2018/19 Semester 2

- Designed and taught weekly tutorial classes (~60 students), and held office hours.
- 2. MA1100: Fundamental Concepts of Mathematics (lower undergraduate level)

AY 2018/19 Semester 1

• Designed and taught weekly tutorial classes (~60 students), held office hours, and graded exams.

Work Experience _____

WalmartBentonville, AR, USA

DATA ANALYST 2 (JUNIOR DATA SCIENTIST)

Feb - Jun 2021

• Enhanced Sam's Club fraud detection system via model stacking and improved feature engineering, resulting in a reduction of approximately 30% in financial losses.

Data Scientist Intern

Jun - Aug 2020

• Adapted natural language processing techniques to develop item-scoring algorithms aimed at guiding each club's price investment decisions, and implemented them using PySpark.

Portcast Singapore

DATA SCIENTIST INTERN

May - Aug 2018

• Developed methods for improving cargo demand forecasting models for several prominent global shipping companies, and implemented them using Python.

Centre for Social Development Asia, National University of Singapore

Singapore

RESEARCH INTERN

May - Aug 2017

• Collaborated with a multidisciplinary team of undergraduate students to analyze the state of charity governance in Singapore, resulting in the publication *An Overview of Charity Governance in Singapore*.

TravelokaData Analyst Intern

May - Jul 2016

KEVIN CHRISTIAN WIBISONO · CURRICULUM VITAE

• Developed SQL dashboards to summarize the effectiveness of organic searches in generating hotel sales.

Awards	
2023	Rackham International Student Fellowship, University of Michigan
2020	Top 1.5% , Baidu and Xi'an Jiaotong University International Big Data Competition
2019	Second Runner-Up, Columbia University Data Science Hackathon Ho Family Prize (Best Applied Mathematics Graduate), National University of Singapore
2017	Top 250, William Lowell Putnam Mathematical Competition First Runner-Up, ALMA College Mathematics Challenge Eighth Place, Virginia Tech Regional Mathematics Contest
2015	Undergraduate Scholarship (Full Funding), Singapore Ministry of Foreign Affairs
2014	Silver Medal, Asian Pacific Mathematics Olympiad
2013	Bronze Medal, International Mathematical Olympiad Silver Medal, Asian Pacific Mathematics Olympiad
2009	Satyalancana Wira Karya (Medal for Providing an Example of Meritorious Personality), Government of the Republic of Indonesia
Presentations and Posters	
Presentations	
2023	Joint Statistical Meetings, Toronto, ON, Canada
Posters	
2023	NeurIPS Workshop on Mathematics of Modern Machine Learning, New Orleans, LA, USA
2023	Michael Woodroofe Memorial Conference, Ann Arbor, MI, USA
2023 2023	Uncertainty in Artificial Intelligence (UAI), Pittsburgh, PA, USA ICSA Applied Statistics Symposium, Ann Arbor, MI, USA
2023	Midwest Machine Learning Symposium, Chicago, IL, USA
Outreach	and Professional Development
Service and Outreach	
2023	Neural Information Processing Systems, Volunteer
2023	ICSA Applied Statistics Symposium, Volunteer
2021 - 2022	University of Michigan Indonesian Society, Events Director
2020 2019 - 2020	Columbia University Data Science Institute, Student Ambassador and Mentor Columbia Indonesian Society, Assistant Vice President of Training and Development
2015 - 2017	NUS-British Petroleum Mentoring, Treasurer and Mentor
Conferences Refereed	
2023 - 2024	Artificial Intelligence and Statistics (AISTATS)
Computing Skills	

• Proficient in Python, R, and SQL.

3