Amanda R. Kube Jotte, MS, PhD

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Academic Appointments

University of Chicago

2022-Present

Preceptor in Data Science, Data Science Institute

Education

Washington University in St. Louis

2018 - 2022

Ph.D., Computational and Data Sciences

Dissertation: Data-Driven Decision-Making: Using Counterfactual Predictions to Allocate Scarce Homeless

Services Fairly and Efficiently

Advised by Sanmay Das and Patrick Fowler

Defended April 2022

Washington University in St. Louis

2017 - 2018

M.S., Data Analytics and Statistics

Thesis: Allocating Interventions Based on Counterfactual Predictions: A Case Study on Homelessness Services

Advised by Sanmay Das

Defended April 2018

Washington University in St. Louis

2013-2017

B.A., Double Major in Psychological and Brain Sciences and Mathematics (Statistics)

Minor in Children's Studies

Summa Cum Laude and Phi Beta Kappa

Thesis: Training Self-Control? A Meta-Analysis

Advised by Joshua Jackson

Honors and Awards

2021 - University of Chicago Rising Star in Data Science

2021 - Teaching Citation

2018 - Dean's Select Fellowship

2018 - Summa Cum Laude

2017 - Phi Beta Kappa

Teaching Experience

Instructor of Record:

Harry S. Truman College

Spring 2023 - CIS 299 Special Topics in Computer and Information Sciences: Introduction to Data Science

University of Chicago

Winter 2023, Autumn 2023 (2 Sections) - DATA 118 Introduction to Data Science I

Washington University in St. Louis

Spring 2021 - DCDS 510 Data Wrangling

Fall 2020 - DCDS 499 Introduction to Graduate Research in Computational and Data Sciences

Teaching Assistant:

Washington University in St. Louis
Spring 2019 - CSE 417T Introduction to Machine Learning
Spring 2016, Fall 2017 - CSE 131 Introduction to Computer Science

Journal Publications

- [1] Kaufmann, R., Harris, Bozer A., **Jotte, A. R. K.**, Aqua, K., (2023) The Effects of Long-Term Self-Dosing of Cannabidiol on Drowsiness, Testosterone Levels, and Liver Function. Medical Cannabis and Cannabinoids 6(1), 32-40.
- [2] **Kube, A. R.**, Das, S., Fowler, P. J. (2023). Community-and Data-Driven Homelessness Prevention and Service Delicery: Optimizing for Equity. Journal of the American Medical Informatics Association 30(6), 32-40.
- [3] **Kube, A.**, Das, S., Fowler, P. J. (2023). Fair and Efficient Allocation of Scarce Resources Based on Predicted Outcomes: Implications for Homeless Service Delivery. Journal of Artificial Intelligence Research 76, 1219-1244.
- [4] Cheung, F., **Kube**, **A.**, Tay, L. et al. (2020). The impact of the Syrian conflict on population well-being. Nature Communications, 11(1), 1-10.
- [5] Hill, P. L., Cheung, F., **Kube**, **A.**, Burrow, A. L. (2019). Life engagement is associated with higher GDP among societies. Journal of Research in Personality, 78, 210-214.

Refereed Conference Publications

- [6] Kube, A., Das, S., Fowler, P. J., Vorobeychik, Y. (2022). Just Resource Allocation? How Algorithmic Predictions and Human Notions of Justice Interact. In Proceedings of the 23rd ACM Conference on Economics and Computation, 1184-1242.
- [7] **Kube, A.**, Das, S., Fowler, P. J. (2019). Allocating Interventions Based on Predicted Outcomes: A Case Study on Homelessness Services. Proceedings of the AAAI Conference on Artificial Intelligence, 33(1), 622-629.

Presentations

- 2023 Perspectives on Inclusive Teaching in Introductory Data Science: Best Practices for University and Community College Students. Moderated Discussion as a part of the 2023 Academic Data Science Alliance Annual Meeting, San Antonio, TX
- 2023 The Human Element of Data Science: How to Teach Data Science Ethics. Moderated Discussion as a part of the 2023 Academic Data Science Alliance Annual Meeting, San Antonio, TX
- 2022 Just Resource Allocation? How Algorithmic Predictions and Human Notions of Justice Interact. Oral presentation as a part of the 2022 INFORMS Annual Meeting, Indianapolis, IN
- 2022 Just Resource Allocation? How Algorithmic Predictions and Human Notions of Justice Interact. Oral presentation as a part of the 23rd ACM Conference on Economics and Computation, Boulder, CO
- 2021 Integrating human priorities and data-driven improvements in allocation of scarce homeless services to households in need. Oral presentation as a part of the University of Chicago Center for Data and Computing Rising Stars in Data Science Workshop, Chicago, IL
- 2021 Homeless Service Allocation Under Differing Treatment Effect Heterogeneity. Oral presentation as a part of the Canadian Operations Research Society Annual Conference, Toronto, Canada
- 2019 Precision Public Health: Homelessness Prevention Systems. Poster presentation as part of the 12th Washington University in St. Louis Institute for Public Health Conference, St. Louis, MO.
- 2019 Allocating Interventions Based on Predicted Outcomes: A Case Study on Homelessness Services. Oral presentation as part of the 32nd AAAI Conference Artificial Intelligence, Honolulu, HI.
- 2018 Allocating Interventions Based on Counterfactual Predictions: A Case Study on Homelessness Services. Oral presentation as part of the Mechanism Design for Social Good Workshop at the 19th ACM Conference on Economics and Computation, Ithaca, NY.

Service to the Profession

Requested Reviewer:

American Journal of Preventative Medicine (AJPM): 2023

Program Committee Member:

AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES): 2023
ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO): 2022
AAMAS Workshop on Autonomous Agents for Social Good (AASG): 2021, 2023
AAAI Symposium on Educational Advances in Artificial Intelligence (EAAI): 2020, 2022, 2023

Updated: November 14, 2023