

Alex DiChristofano

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EDUCATION

Washington University in St. Louis, St. Louis, MO 2020 – Present

Ph.D. in Computational & Data Sciences; Social Work and Public Health Track

- GPA: 3.80/4.00, Advised by Patrick Fowler and Chien-Ju Ho

Washington University in St. Louis, St. Louis, MO 2016 – 2020

B.A. in Mathematics, Second Major in Computer Science

- GPA: 3.91/4.00, Graduated with Honors

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, HTML, CSS, JavaScript, MATLAB, LaTeX

Tools & Frameworks: Machine Learning, Optimization, Causal Inference, GIS, Tableau, Power BI, D3, Git, Docker

PROFESSIONAL EXPERIENCE

Department of Supervision and Regulation, Federal Reserve Bank of Chicago Summer 2023

Business Analytics Intern

- Split time between two teams, one in data and automation and the other in quality assurance.
- Developed automated data analysis and quality assurance processes within established workflows.
- Learned Tableau and Power BI to create the best solution for each team.
- Deployed and documented projects before the completion of the internship.

PREPRINTS

Thibodeau, H., **DiChristofano, A.**, Howerton, I., Das, S., Luke, D. A., Fowler, P. J. 2024. Eviction Markets: Owner-Attorney Networks Underlying Tenant Displacement. *Under Review*.

DiChristofano, A., Hamilton, M. L., Hao, Q., Linardi, S. 2024. Platform Design with Prosocial Participants: Lessons from 412Connect. *Under Review*. [[link](#)]

DiChristofano, A., Shuster, H., Chandra S., Patwari, N. 2023. Performance Disparities Between Accents in Automatic Speech Recognition. *arXiv*. [[link](#)]

CONFERENCE & JOURNAL PUBLICATIONS

Sarkar, A., **DiChristofano, A.**, Das, S., Fowler, P. J., Jacobs, N., Vorobeychik, Y. To appear. Active Geospatial Search for Preventing Evictions. *AAAI-AISI '25: AAAI Conference on Artificial Intelligence, Special Track on AI for Social Impact*.

Farrell, D. C., Fowler, P. J., Parulkar, A., **DiChristofano, A.**, Goodrich, T., Mott, S., Silverman, R., Manglik, S. To appear. Addressing Risks and Reducing Homelessness of Vulnerable Parenting Youths: An Implementation and Impact Evaluation of HELP USA's New Beginnings Program. *The International Journal on Homelessness*.

Mashiat, T., **DiChristofano, A.**, Fowler, P. J., Das, S. 2024. Beyond Eviction Prevention: Leveraging Local Spatiotemporal Public Records to Inform Action. *FACCT '24: ACM Conference on Fairness, Accountability, and Transparency*. [[link](#)]

Sarkar, A.*, **DiChristofano, A.***, Das, S., Fowler, P. J., Jacobs, N., Vorobeychik, Y. 2024. Geospatial Active Search for Preventing Evictions (Extended Abstract). *AAMAS '24: International Conference on Autonomous Agents and Multiagent Systems*. [[link](#), [pdf](#)]

DiChristofano, A., Shuster, H., Chandra S., Patwari, N. 2023. Performance Disparities Between Accents in Automatic Speech Recognition (Student Abstract). *AAAI '23: AAAI Conference on Artificial Intelligence*. [[link](#)]

- Student Abstract Finalist, Selected for Presentation

DiChristofano, A., Hamilton, M. L., Linardi, S., McCloud, M. F. 2021. Project 412Connect: Bridging Students and Communities. *EAAMO '21: ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization*. [[link](#)]

- 28% Acceptance Rate, **New Horizons Award for Bridging Research and Practice**

Chung, M. K., Lee, H., **DiChristofano, A.**, Ombao, H., Solo, V. 2019. Exact Topological Inference of the Resting-State Brain Networks in Twins. *Network Neuroscience*. [\[link\]](#)

* denotes equal contribution

CONFERENCE PRESENTATIONS & INVITED TALKS

Performance Disparities Between Accents in Automatic Speech Recognition

- AAAI-23 Student Abstract and Poster Program. (2023)

Project 412Connect: Bridging Students and Communities

- 2023 INFORMS Annual Meeting. (Invited Talk, 2023)
- 2022 INFORMS Annual Meeting. (Invited Talk, 2022)
- Year of Data and Society, University of Pittsburgh. (Invited Talk, 2021) *
- EAAMO '21: ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization. (2021)

Grief to Action: Collaborative Efforts Between Researchers and Communities

- Global Perspectives on Inequality Working Group, EAAMO Bridges (Formerly MD4SG). (Invited Talk, 2022) *

Confronting Homelessness Through Critical Time Interventions

- Conference, National Association of Social Workers - New York City Chapter. (Invited Talk, 2021) *
- Rising Stars Workshop, Harvard Center for Research on Computation and Society. (Invited Talk, 2020)
- 12th Annual Institute for Public Health Conference, Washington University in St. Louis. (2019)

* presented with collaborators

GRANTS AND FELLOWSHIPS

Seed Grant, <i>Transdisciplinary Institute in Applied Data Sciences, Washington University in St. Louis</i>	2024
Small Grant, <i>Center for the Study of Race, Ethnicity, & Equity, Washington University in St. Louis</i>	2023
Engaged Scholarship Summer Design Fellow, <i>University of Pittsburgh</i>	2021
Dean's Select Doctoral Fellowship, <i>Washington University in St. Louis</i>	2020 – 2021
Summer Research Opportunities Program, <i>University of Wisconsin-Madison</i>	2018

AWARDS

Honorable Mention, <i>NSF Graduate Research Fellowship Program (GRFP)</i>	2022
New Horizons Award for Bridging Research and Practice, <i>EAAMO '21</i>	2021
Dean's List, <i>Washington University in St. Louis</i>	2016 – 2018

TEACHING

Assistant to the Instructor

Department of Computer Science and Engineering, Washington University in St. Louis, St. Louis, MO

- Introduction to Graduate Research in Computational and Data Sciences (DCDS 499) Spring 2023
 - Created and led final project and gave lectures
- Signals, Data, and Equity (CSE 359A / ESE 359) Fall 2021
 - Assisted in course development and gave lectures
- Multi-Agent Systems (CSE 516A) Fall 2019
- Computational Geometry (CSE 546T) Fall 2019
- Data Structures and Algorithms (CSE 247) Spring 2019

PROFESSIONAL SERVICE AND ACTIVITIES

Equity and Access in Algorithms, Mechanisms, and Optimization ([EAAMO](#)) Leadership

- Non-Academic Dissemination Lead 2024 – Present
- Nonprofit Incorporation and Fiscal Sponsorship Team 2024
- Social Media Team 2021 – 2023

Working Group Member

- Urban Data Science, *EAAMO Bridges* 2021 – Present

- Global Perspectives on Inequality, *EAAMO Bridges*

2021 – Present

Social Media Co-Chair

- *EAAMO '23: ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization* 2023
- *EAAMO '22: ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization* 2022
- *EAAMO '21: ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization* 2021

Program Committee | Reviewer

- *FACCT '25: ACM Conference on Fairness, Accountability, and Transparency* 2025
- *EAAMO '24: ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization* 2024
- *AASG '24: International Workshop on Autonomous Agents for Social Good* 2024

Conference Volunteer

- *FACCT '22: ACM Conference on Fairness, Accountability, and Transparency* 2022