

# Alex DiChristofano

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## EDUCATION

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**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

## PREPRINTS

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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*.

Farrell, D. C., Fowler, P. J., Parulkar, A., **DiChristofano, A.**, Goodrich, T., Mott, S., Silverman, R., Manglik, S. 2024. Addressing Risks and Reducing Homelessness of Vulnerable Parenting Youths: An Implementation and Impact Evaluation of HELP USA's New Beginnings Program. *Under Review*.

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

Sarkar, A.\*, **DiChristofano, A.\***, Das, S., Fowler, P. J., Jacobs, N., Vorobeychik, Y. 2024 Geospatial Active Search for Preventing Evictions. *Under Review*.

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

## CONFERENCE & JOURNAL PUBLICATIONS

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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

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**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)*
- *12<sup>th</sup> Annual Institute for Public Health Conference, Washington University in St. Louis. (2019)*

\* presented with collaborators

## **GRANTS AND FELLOWSHIPS**

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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, &amp; 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**

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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

## **RESEARCH EXPERIENCE**

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**Division of Computational & Data Sciences, Washington University in St. Louis** 2020 – Present  
*Research Assistant*

- Applied geospatial active search to simulations of eviction discovery in St. Louis.
- Predicted evictions at the parcel-level in St. Louis using municipal spatiotemporal records.
- Estimated the effect of 311 calls leading to property inspections on eviction in St. Louis.
- Audited commercial automated speech recognition APIs using a dataset of accents from speakers around the world.
- Collaborated with volunteers and community stakeholders to design and lead the implementation of an online platform which connects university students and local Black-owned businesses.
- Applied causal inference methods to analyze the implementation of a housing intervention in New York City.

**Department of Statistics, Biostatistics, and Medical Informatics, University of Wisconsin-Madison** Summer 2018  
*Research Assistant*

## **PROFESSIONAL EXPERIENCE**

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**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.

## **TEACHING**

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### **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

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### 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

- *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