

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: 3.78/4.00, 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

PUBLICATIONS

Sarkar, A.*, **DiChristofano, A.***, Das, S., Fowler, P., Jacobs, N., Vorobeychik, Y. 2023 Geospatial Active Search for Preventing Evictions. *Under Review*.

Mashiat, T., **DiChristofano, A.**, Fowler, P., Das, S. 2023. Tenant Eviction Prediction: Leveraging Local Spatiotemporal Public Records to Inform Action. *Under Review*.

DiChristofano, A., Shuster, H., Chandra S., Patwari, N. 2023. Performance Disparities Between Accents in Automatic Speech Recognition. *AAAI-23 Student Abstract and Poster Program*. [[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 2022, 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

Small Grant, Center for the Study of Race, Ethnicity, & Equity, Washington University in St. Louis 2023

Engaged Scholarship Summer Design Fellow, University of Pittsburgh 2021

Dean's Select Doctoral Fellowship, Washington University in St. Louis 2020-2021

Summer Research Opportunities Program, University of Wisconsin-Madison 2018

AWARDS

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

RESEARCH EXPERIENCE

Division of Computational & Data Sciences, Washington University in St. Louis 2019 – 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 historical data from governmental sources.
- 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

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

Business Analytics Intern

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

Social Media Team 2021 – Present

Mechanism Design for Social Good (MD4SG)

Member, Global Perspectives on Inequality Working Group 2021 – Present

Mechanism Design for Social Good (MD4SG)

Social Media Co-Chair 2022

EAAMO'22: ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization

Volunteer 2022

FaccT'22: ACM Conference on Fairness, Accountability, and Transparency

Social Media Co-Chair 2021

EAAMO'21: ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization