

Alex DiChristofano

alexdc.info • a.dichristofano@wustl.edu

EDUCATION

Washington University in St. Louis, St. Louis, MO

2020 – Present

Doctor of Philosophy

- Computational and Data Sciences
- Specialization in Public Health
- Primary Advisor: Patrick Fowler
- GPA: 3.83/4.00

Washington University in St. Louis, St. Louis, MO

2020

Bachelor of Arts

- Mathematics with Second Major in Computer Science
- Graduated with Honors
- GPA: 3.91/4.00

PUBLICATIONS

DiChristofano, A., Shuster, H., Chandra S., Patwari, N. 2022. Performance Disparities Between Accents in Automatic Speech Recognition. *arXiv*. <https://doi.org/10.48550/arXiv.2208.01157>

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*. <https://doi.org/10.1145/3465416.3483304>

- 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*. https://doi.org/10.1162/netn_a_00091

CONFERENCE PRESENTATIONS

DiChristofano, A., Hamilton, M. L., Linardi, S., McCloud, M. F. 2022. Project 412Connect: Bridging Students and Communities. *To be presented at the 2022 INFORMS Annual Meeting*.

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*.

INVITED TALKS AND POSTERS

DiChristofano, A., Rial, E., Stapleton, L. 2022. Grief to Action: Collaborative Efforts Between Researchers and Communities. *Global Perspectives on Inequality Working Group, MD4SG*. (Invited Talk)

Linardi, S., **DiChristofano, A.**, Chang, I., Griffin, C., Olin, T., Gerard, A. 2021. Project 412Connect: Bridging Students and Underrepresented Communities. *Year of Data and Society, University of Pittsburgh*. (Invited Talk)

Goodrich, T., Farrell, D., **DiChristofano, A.** 2021. Homebase and New Beginnings Homeless Prevention Programs. *Conference, National Association of Social Workers - New York City Chapter*. (Invited Talk)

DiChristofano, A., Fowler, P., Farrell, D. 2020. Confronting Homelessness Through Critical Time Interventions. *Rising Stars Workshop, Harvard Center for Research on Computation and Society*. (Invited Talk)

DiChristofano, A., Fowler, P., Farrell, D. 2019. Confronting Homelessness Through Critical Time Interventions. *12th Annual Institute for Public Health Conference, Institute for Public Health, Washington University in St. Louis*. (Poster)

TEACHING

Assistant to the Instructor

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

- 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

GRANTS AND FELLOWSHIPS

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

PROFESSIONAL SERVICE AND ACTIVITIES

Medium Blog Co-Manager 2021 – Present
Mechanism Design for Social Good (MD4SG)

Member, Global Perspectives on Inequality Working Group 2021 – Present
Mechanism Design for Social Good (MD4SG)

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

RESEARCH EXPERIENCE

Research Assistant 2019 – 2020
Brown School, Washington University in St. Louis, St. Louis, MO

- Advised by Patrick Fowler, Associate Professor at the Brown School
- Evaluated the effectiveness of critical time interventions for young adult heads of household
- Applied statistical methods to understand program success and failure
- Created presentation for the European Research Conference
- Presented at Washington University Institute for Public Health's Annual Conference

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

- Advised by Moo K. Chung, Associate Professor at the University of Wisconsin-Madison
- Investigated the function brain networks of twins using an fMRI dataset
- Extended power for statistical inference by showing the Betti-1 number is monotonic over graph filtration
- Applied a new methodology to distinguish between the resting-state brain networks of mono and dizygotic twins
- Coauthored a paper in *Network Neuroscience*, and was acknowledged on a conference paper in *IEEE ISBI*