

ABDIRASHID DAHIR

Department of Geography, The Ohio State University
1145 Derby Hall | dahir.39@buckeyemail.osu.edu
Last updated: February 21, 2025

EDUCATION

The Ohio State University, Columbus, OH 2021 - Present
Ph.D. Geography
Specializations: Transportation Planning & Sustainable Energy Systems

University of Seoul, Seoul, South Korea 2020
MSc Transportation Engineering

Debre Birhan University, Debre Birhan, Ethiopia 2016
BSc Civil Engineering

RESEARCH EXPERIENCE

Graduate Research Assistant SP 2024 – SU 2024
Department of Geography
The Ohio State University, Columbus, OH

Research Assistant SU 2020 – SU 2021
Marron Institute of Urban Management
New York University, New York (remote)

Graduate Research Assistant Fall 2018 – SP 2020
Department of Transportation Engineering
University of Seoul, Seoul, South Korea

TEACHING EXPERIENCE

Graduate Teaching Assistant Fall 2022 - Present
Department of Geography
The Ohio State University, Columbus, OH

PROFESSIONAL EXPERIENCE

Infrastructure Engineer Nov 2016 – Aug 2017
World Vision International
East Africa Region

Climate Journalist May 2015 – May 2016
FloodList News, Europe (remote)

PUBLICATIONS

2025 **Dahir, A**, Le, H.T.K. (2025) Impacts of bicycle facilities on residential property values in 11 US cities. *Journal of Transport Geography*. doi: 10.1016/j.jtrangeo.2025.104146

Dahir, A, Harrington, D., Abdollahpour, S.S., Hankey, S., Le, H.T.K. (2025) Impacts of bicycle network on bicycle traffic over time in 12 cities. *Completed and to be submitted*.

Dahir, A, Jacquet, J., Bielicki, J., Le, H.T.K. (2025) Just Transition to Electric Vehicles in Disadvantaged Communities: Integrating Transportation, Energy and Climate Justice. *Completed and to be submitted*.

Dahir, A, Le, H.T.K (2025) How industrial agglomeration and urban fabrics affect travel mode choice over time in Seoul. *Completed and to be submitted*.

MANUSCRIPTS UNDER PREPARATION

1. Modeling determinants of unidirectional and bidirectional battery electric vehicle adoption using Capability Approach. *With Andre Carrel, Jeffrey Bielicki and Huyen Le*
2. Consumer preferences for risk sharing: An application to battery electric vehicles. *With Christina Gore, Andre Carrel and Lee White*
3. Assessing the Link Between Affect and Mobility within Daily Life. *With Christina Henry, Joseph Bayer, Morgan Ross, Huyen Le, Jerry Mount, and YJ Chang. Journal of Environmental Psychology*

TECHNICAL REPORTS

2023 **A Dahir**, L Liu, B Martinez, A Mohammad (2023). *Popularizing Electric Vehicles (EVs): How can we make EVs the car of choice for consumers?* Honda of North America, Marysville, Ohio.

2023 **A Dahir** (2021). *Road Accident Severity Classification using US Accidents Dataset*. Machine Learning Project, Department of Computer Science and Engineering, The Ohio State University.

2020 J Choi, **A Dahir**, S Jeong, J Yoo, T Sung (2020). *Innovative Street Design Approaches in Urban Areas to End the Automobile Dependence*. Korea Research Foundation Grant No. 2019-03-97706.

CONFERENCE PRESENTATIONS AND PROCEEDINGS

2025 **A Dahir**, J Jacquet, J Bielicki, A Carrel, H Le. Integrating Transportation, Energy and Climate Justice for Just Transition to Electric Vehicles: A Mixed-Methods Study of Disadvantaged Communities. *Abstract accepted for presentation at the 2025 American Association of Geographers Annual Meeting*. Detroit, Michigan. March 2025.

A Dahir, J Jacquet, J Bielicki, H Le. Just Transition to Electric Vehicles in Disadvantaged Communities: Integrating Transportation, Energy and Climate Justice. *Oral presentation at Energy Geography Conference*. Virtual. January 2025.

A Dahir, J Jacquet, J Bielicki, H Le. Just Transition to Electric Vehicles in Disadvantaged Communities: Integrating Transportation, Energy and Climate Justice. *Doctoral Research in Transportation Modeling and Travel Behavior Analysis at Transportation Research Board Annual Conference*. Washington, DC. January 2025.

2024 **A Dahir**, J Jacquet, J Bielicki, H Le. Just Transition to Electric Vehicles in Disadvantaged Communities: Integrating Transportation, Energy and Climate Justice. *Oral presentation at the Association of Collegiate Schools of Planning Annual Conference*. Seattle, Washington. November 2024.

A Dahir, J Jacquet, J Bielicki, H Le. Just Transition to Electrified Mobility and Home Energy in Disadvantaged Communities: Evidence from Community-Engaged Work in Columbus, OH. *Flash talk at American College of Epidemiology Annual Conference*. Columbus, OH. September 2024.

A Dahir, D Harrington, S S Abdollahpour, S Hankey, H Le. Impacts of bicycle network on bicycle traffic over time in 12 cities. *Oral presentation at CaGIS-UCGIS 2024 Symposium*. Columbus, OH. June 2024.

A Dahir, D Harrington, S S Abdollahpour, S Hankey, H Le. Impacts of bicycle network on bicycle traffic over time in 12 cities. *Poster presentation at Transportation Research Board Annual Conference*. Washington, DC, January 2024.

2023 **A Dahir**, H Le. How industrial agglomeration and urban fabrics affect travel mode choice over time. *Oral presentation at Ohio Needs Transit Conference*. Columbus, OH, September 2023.

A Dahir, H Le. Impacts of bicycle facilities on residential property values in 11 US cities. *Oral presentation at Ohio Needs Transit Conference*. Columbus, OH, September 2023.

A Dahir, H Le. An Integrated Framework for Just Transition to Electric Mobility. *Poster presentation at Environmental Professionals Network's Earth Day Event*,. Columbus, OH, April 2023.

A Dahir, H Le. Impacts of bicycle facilities on residential property values in 11 US cities. *Oral presentation at Transportation Research Board Annual Conference*. Washington, DC, January 2024.

2019 **A Dahir**, J Choi, S Jeong, J Yoo, T Sung. Peak Car Use: Transforming urban roads and streets through Movement and Place Design. *Oral presentation by J Choi on my behalf at the Proceedings of the 2019 International Joint Conference among Calgary University, University of Seoul, Tongji University and Kumamoto University*. Calgary, Alberta, Canada, August 2019.

GUEST LECTURE AND INVITED TALKS

2024 **A Dahir**. Impacts of bicycle facilities on residential property values. *Invited talk at the Department of Environmental and Urban Change at York University in Toronto, Ontario, Canada*. November 2024.

A Dahir. Preparing a Planning Workforce for the Energy Transition. *Invited Roundtable Participant during the Association of Collegiate Schools of Planning Annual Conference in Seattle, Washington*. November 2024.

A Dahir. Advancing the Energy Transition with Innovation in Education and Inclusion of Social Science. *Panelist at University Energy Institute Leaders Collaborative Summit in Columbus, OH.* October 2024.

A Dahir. Sustainability and Design. *Invited talk at Aim Academy of Science and Technology for pre-high school geography students in Minneapolis.* April 2024.

2022 **A Dahir.** Urban and Intercity Transit Lessons from South Korea. *Invited talk at Skoll World Forum.* April 2022.

2021 **A Dahir.** HSR construction costs in South Korea. *Virtual presentation for Transit Costs Project Team at Marron Institute of Urban Management at New York University.* August 2021.

2021 **A Dahir.** Last Mile Mobility: Seoul's Scooter Problems. *Guest Lecture for Public Policy Class at Sogang University.* Seoul, South Korea, June 2021.

2020 **A Dahir.** Demystifying Seoul Subways. *Virtual presentation for Transit Costs Project Team at Marron Institute of Urban Management at New York University.* November 2020.

MEDIA COVERAGE

2023 *Documentary: From Poverty in Somalia to Ph.D. Candidate in the United States.* Abdi Aar Podcast. <https://www.youtube.com/watch?v=zNHnvLAjuJU&t=147s>

2020 *Who Should Bear the Risk in Infrastructure Projects?* Pedestrian Observations, 2020. <https://pedestrianobservations.com/2020/11/30/who-should-bear-the-risk-in-infrastructure-projects/>

2018 *Walkability Can Alleviate Capital's Traffic Worries.* Addis Fortune, 2018. <https://addisfortune.news/walkability-can-alleviate-capitals-traffic-worries/>

2015 - 2016 *Climate Journalism in East Africa for FloodList News.* FloodList News, 2015 - 2016. <https://floodlist.com/author/abdirashid-m-dahir>

HONORS AND AWARDS

PRISM Next-Gen Scholar, Climate School at Columbia University	2024
Excellence Award, Somali Students' Association at The Ohio State University	2024
EmPOWERment Travel Grant, Sustainability Institute, The Ohio State University	2023
Lakshmanan Chatterjee Fellowship, Department of Geography, The Ohio State University	2022
NSF Research Traineeship, The Ohio State University	2021
Graduate Fellowship, The Ohio State University	2021
Global Korea Scholarship (GKS), National Institute for International Education, South Korea	2017
Ethiopian Government Scholarship, Ministry of Education, Ethiopia	2011
Certificate of Merit for being the best in Secondary School Mathematics Symposium	2011

TEACHING EXPERIENCE

Courses at The OSU, as teaching assistant:

GEOG 3300: Transportation Security (82 students), SP 25

GEOG 4103: Introductory Spatial Data Analysis (51 students), AU 24

GEOG 5300: Geography of Transportation (79-86 students), SP & AU 22-23

GEOG 5210: Fundamentals of Geographic Information Systems (97 students), SP 23

SERVICE

Departmental and university service

Graduate Geography Organization (GGO) member, Department of Geography (2021 –)

Member, Engaged Scholars Graduate Student Community of Practice (Spring and Summer 2024)

Scientific Thinkers member (Autumn 2022)

Outreach

Mentor, Future Leaders Mentorship Program for Underserved Youth in Columbus, OH (Fall 2024 -)

Event Volunteer, Pelotonia Community to End Cancer (Summer 2024 -)

Volunteer, Star House, On-Campus Initiatives, Columbus, OH (Summer and Autumn 2024)

Mentor, Graduate School Application for Somali Immigrants and Refugees in Columbus, OH (2022 -)

Educator, Ethiopian Building Code Standards, Civil Engineering Students in Ethiopia (2016 -)

Organizer, Garowe Book Fair, Puntland, Somalia (Summer 2017)

Founder, Humans of Puntland (2016 -)

Service to the profession

Peer Review:

Urban Studies

Transportation Research Board (TRB) Conference 2024

PROFESSIONAL AFFILIATIONS

Association of Collegiate Schools of Planning (ACSP)

Transportation Research Board (TRB)

American Association of Geographers (AAG)

TECHNICAL SKILLS

Analysis & Modeling: MATSim, NetLogo, Vensim, R, Python, ArcGIS, R Spatial, GitHub, PostGIS, HPC

Visualization & Layout: ArcGIS, AutoCAD, LaTeX

Methods: Data collection methods (Surveys, community engagements);
Longitudinal, spatio-temporal, and other geospatial analysis;
Discrete/hybrid choice modeling, psychometrics, multilevel modeling,
machine learning, Bayesian statistics;
Other advanced statistical and econometric methods;
Network analysis, system dynamics, & agent-based modeling