

Celeste N. Chavis, Ph.D, P.E.

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EDUCATION & TRAINING

EDUCATION

- 2012 **PhD, Civil and Environmental Engineering (Transportation Concentration)**
University of California, Berkeley; Berkeley, CA
Minors: City Planning, Mathematics
Dissertation: Multimodal Transport Modeling for Nairobi, Kenya
Honors: NSF Graduate Research Fellowship, Ford Foundation Pre-doctoral Fellowship, UC Berkeley Chancellor Fellowship
- 2008 **MS, Civil and Environmental Engineering (Transportation Concentration)**
University of California, Berkeley; Berkeley, CA
- 2007 **B.S. in Civil Engineering, Magna cum laude with Distinction**
The Ohio State University; Columbus, OH
Honors Thesis: Development of Unsteady, Non-Uniform Three-Dimensional Open Channel Flow Solutions, Advisor: Dr. Oliver McGee

TRAINING AND LICENSES

- 2016-Present Professional Engineer, State of Maryland
- 2018 ESRI Introduction to GIS Using ArcGIS
- 2018 ArcGIS Pro: Essential Work Flows
- 2017 ABET Fundamentals of Program Assessment
- 2015 Teach Online Certificate, Morgan State University
- 2015 Designing Your Online Course Certificate, Quality Matters
- 2013 Bike-Ped Faculty Instruction Workshop, Initiative for Bicycle and Pedestrian Innovation, Portland State University
- 2007 Engineer in Training, State of Ohio

PROFESSIONAL EXPERIENCE

- 2018 – Present **Associate Professor, Morgan State University, Transportation & Urban Infrastructure Studies, School of Engineering, Baltimore, MD**
- 2013 – 2018 **Assistant Professor, Morgan State University, Transportation & Urban Infrastructure Studies, School of Engineering, Baltimore, MD**
- Summer 2015 **Visiting Researcher, IBM | Africa, Nairobi, Kenya**
Subject matter expert for Mobility Lab division
Responsible for compiling and interpreting real time data of public vehicle locations
Developed model to improve roundabout operations
Oversaw interns in the Mobility Lab

- Summer 2013 **Visiting Researcher, *University of Massachusetts, Amherst, MA***
 Developed methodology for transit signal priority research project and associated documentation
- 2011 – 2012 **Graduate Teaching Assistant, *University of California, Berkeley, Berkeley, CA***
 Developed course material for lecture and assessment for upper level, undergraduate transportation course
 Ran a weekly laboratory
 Maintained office hours
- 2007 – 2009 **Graduate Research Assistant, *University of California, Berkeley, Berkeley, CA***
 Formulated the macroscopic fundamental diagram (MFD) for Nairobi and compared the capacity of Nairobi's streets to the capacity of streets in other cities
 Identified policies such as to metering the rate that vehicles enter the city, spreading peak demand, improving intersection operations, dedicating lanes to buses, and strategically adding redundant links to the network to improve traffic conditions in Nairobi
- Spring 2006 **Transportation Planning Intern, *National Center for Smart Growth, University of Maryland, College Park, MD***
 Participant in the policy-focused John Glenn Washington Internship Program
 Responsible for collecting data pertaining to a walkability study at the University of Maryland, College Park
- 2005 – 2006 **Intern, *Ohio Department of Transportation, Columbus, OH***
 Conducted basic roadway geometric alignment design
 Responsible for the production and correction of roadway plans in MicroStation
- Summer 2005 **Water Resources Intern, *EMH&T, Gahanna, MD***
 Assisted in a project to update the water sewer system for the City of Columbus
 Worked on EPA studies for various cities and municipalities

HONORS AND AWARDS

- 2017, 2020 Transportation Research Board Certificate of Appreciation
 2010 – 2012 NSF Graduate Research Fellowship
 2008 – 2009 Ford Foundation Pre-doctoral Fellowship
 2007 University of California Berkeley Chancellor Fellowship

GRANTS AWARDS

SPONSORED RESEARCH

1. Aviv, A., Borisov, N., **Chavis, C.**, Bates, A., Caliskan, A. National Science Foundation. *SCC-PG: Privacy and Fairness in Planning when using Third-Party, Heterogeneous Data Sources*, \$149,241 (\$32,000 MSU), 1/15/2021-12/31/2021
2. Frias-Martinez, V., **Chavis, C.**, Vitak, J., Iyer, S., Erdogan, S. National Science Foundation, *Inclusive Public Transit Toolkit to Assess Quality of Service across Socioeconomic Status in Baltimore City*, \$2.35M (\$250,000 MSU), 06/2020-05/2024
3. **Chavis, C.**, Nyarko, K., Cirillo, C. U.S. Department of Transportation: Urban Mobility and Equity Center, *A Comparative Study of Pedestrian Crossing Behavior and Safety in Baltimore and Washington, DC Using Video Surveillance*, \$120,000 (\$80,000 MSU), 09/2020-08/2021
4. **Chavis, C.**, Jeihani, M. U.S. Department of Transportation: Urban Mobility and Equity Center, *The Effect of COVID-19 on Mobility and Equity: A Case Study on Transit Users in Baltimore, MD*, \$100,000, 05/2020-08/2021
5. **Chavis, C.**, City of Baltimore, Department of Planning, *Baltimore City Lyft Grocery Access Pilot External Evaluation*, \$8,000, 06/2020-11/2020
6. **Chavis, C.**, Frias-Martinez, V. U.S. Department of Transportation: Urban Mobility and Equity Center, *E-Bikes Effect on Mode and Route Choice: A Case Study of Richmond, VA Bikeshare*, \$133,407, 2019 - Present.
7. **Chavis, C.**, Cirillo, C., U.S. Department of Transportation: Urban Mobility and Equity Center, *Shared Bus/Bike Lane Safety Analysis: Assessing Multimodal Access and Conflicts*, \$140,000, 2018 - Present.
8. Cirillo, C., **Chavis, C.**, U.S. Department of Transportation: Urban Mobility and Equity Center, *E3: Evaluating Equity in Evacuation: A Practical Tool and Two Case Studies*, \$140,000, 2018 - 2020.
9. **Chavis, C.**, Jones, A., U.S. Department of Transportation: Urban Mobility and Equity Center, *Understanding Access to Grocery Stores in Food Deserts in Baltimore City*, \$56,969, 2017 - 2020.
10. **Chavis, C.**, Barnes, P., U.S. Department of Transportation: Mid-Atlantic Transportation Sustainability University Transportation Center, *Bicycle Justice or Just Bicycles: Analyzing Equitable Access to Baltimore's Bikesharing Program*, \$96,041 (\$44,176 MSU), 2017 - 2018.
11. **Chavis, C.**, Lee, Y., Dadvar, S., District Department of Transportation, *Analysis of Bicycle and Pedestrian Crash Causes and Interventions*, \$92,106, 2017 - 2018. http://d92016.eos-intl.net/eLibSQL14_D92016_Documents/DDOT_BikePed_FinalReport_20190621.pdf
12. **Chavis, C.**, Jeihani, M., Rakha, H., U.S. Department of Transportation: Mid-Atlantic Transportation Sustainability University Transportation Center, *Quantifying the Impact of On-Street Parking on Congestion Mitigation*, \$170,000 (\$100,000 MSU), 2016-2018.
13. Rahka H., Jeihani, M., **Chavis, C.**, U.S. Department of Transportation: Mid-Atlantic Transportation Sustainability University Transportation Center, *Eco-Speed Control for Hybrid Electric Vehicles and Buses in the Vicinity of Signalized Intersections*, \$200,000 (\$50,000 MSU), 2016-2018. http://www.matsutc.org/wp-content/uploads/2019/02/MATS-UTC-Final-Report_Bus-Eco-Driving.pdf

14. Aghdashi, B., **Chavis, C.**, Jeihani, M., U.S. Department of Transportation: National Transportation Center at University of Maryland, *Impact of Level of Service on Driver's Behavior on Arterials – Insights into Validity of Simulated Environments*, \$107,549 (\$27,640 MSU), 2016 – 2018.
15. Golub, A., Karner, A., **Chavis, C.**, Wrigley, A., U.S. Department of Transportation: National Transportation Center at University of Maryland, *Understanding Regional Disparities in Public Transit Performance using Real-time Transit Data*, \$63,705 (\$31,002 MSU), 2015 - 2016.
16. **Chavis, C.**, Gayah, V., Miller-Hooks, E., Schonfeld, P., U.S. Department of Transportation: Mid-Atlantic Transportation Sustainability University Transportation Center, *Integration of Multimodal Transportation Systems*, \$153,301, (\$36,766 MSU), 2014 – 2015.

OTHER GRANTS

1. **Chavis, C.**, 2020. U.S. Department of Transportation, *Eisenhower Transportation Fellowship Program*, \$25,500, 2020-2021.
2. **Chavis, C.**, 2019. U.S. Department of Transportation, *Eisenhower Transportation Fellowship Program*, \$29,500, 2019-2020.
3. **Chavis, C.**, 2018. U.S. Department of Transportation, *Eisenhower Transportation Fellowship Program*, \$23,000, 2018-2019.
4. Arhin, S., **Chavis, C.**, Hancock, K., Vengalla, M., Hamdar, S., Behera, P., *Transportation Research and Program Management University Consortium*, District Department of Transportation, Yearly: Approx. \$700,000 (TBD MSU), 2016 – Present.
5. **Chavis, C.**, 2016. Faculty Development Grant, AIMSUN Training for Transportation and Civil Engineering Faculty, \$6000.
6. **Chavis, C.**, 2015. U.S. Department of Transportation, *Eisenhower Transportation Fellowship Program*, \$17,500, 2015-2016.
7. **Chavis, C.**, 2016. U.S. Department of Transportation, *Eisenhower Transportation Fellowship Program*, \$17,500, 2016-2017.

PROFESSIONAL MEMBERSHIP & SERVICE

PROFESSIONAL ORGANIZATIONS

- **Member**, Innovative Public Transportation Services and Technologies Committee, Transportation Research Board, 2020-Present
- **Secretary and Paper Review Coordinator**, Paratransit Committee, Transportation Research Board, 2015- 2020
- **Member**, Paratransit Committee, Transportation Research Board, 2014- 2015
- **Member**, Conference of Minority Transportation Officials, 2013 – 2019
- **Scholarship Committee**, Conference of Minority Transportation Officials, 2014 – 2018
- **Member**, Institute of Transportation Engineers, 2014-Present
- **Member**, Transit Choices, 2014 – 2019

REVIEWER

- **Transportation Research Board Annual Meetings** (3-5 articles per year), 2012 - Present
- **KSCE Journal of Civil Engineering** (2-3 articles per year), 2014 - Present
- **Journal of Urban Planning and Development** (2-3 articles per year), 2016 – Present
- **Transport Policy** (2-3 articles per year), 2018 - Present

COMMITTEES, PANELS, AND BOARDS

- **Member**, Transit Research Analysis Committee (TRAC), Transportation Research Board, 2018 - Present
- **Member**, Federal Highway Administration (FHWA) Transportation Innovation Education Stakeholders (TIES), 2020 - Present
- **Board Member**, Central Maryland Transportation Alliance, 2018 – Present
- **Member**, Baltimore City Public School System Transportation Workgroup, 2018
- **Member**, Greater Washington Partnership Equitable Access Workgroup, 2018
- **Member**, Complete Streets Equity Workgroup, Baltimore City Department of Transportation, 2017-2019.
- **Board Member**, Public Advisory Committee (PAC) of the Baltimore Regional Transportation Board (BRTB), 2017-Present
- **Member**, Baltimore Bike-share Technical Advisory Board, Baltimore City Department of Transportation, 2016-2018
- **Member**, Waverly Main Street Committee, Baltimore, 2014-2017
- **Member**, Tanzania Transportation Taskforce Team, 2014-2016
- **Advisory Board Member**, Prince Georges Community College (PGCC) Transportation & Distribution Institute, 2014-2017
- **Steering Committee Member**, St. Paul/Calvert St. Two-Way Conversion, Baltimore City Department of Transportation, 2014-2016

PUBLICATIONS

JOURNAL ARTICLES

1. Grasso, Susan H.*, Barnes, P., **Chavis, C.** (2020). Bike Share Equity for Underrepresented Groups: Analyzing Barriers to System Usage in Baltimore, Maryland, *Sustainable Transportation and Infrastructure Systems* (in press)
2. *Bhuyan, I., **Chavis, C.**, *Nickkar, A., Barnes, P. (2019). GIS-Based Equity Gap Analysis: Case Study of Baltimore Bike Share Program, *Urban Science*, 3(2), <https://doi.org/10.3390/urbansci3020042>
3. *Nickkar, A., *Banergee, S., **Chavis, C.**, *Bhuyan I., Barnes, P. (2019). A spatial-temporal gender and land use analysis of bikeshare ridership: The case study of Baltimore City, *City, Culture and Society*, <https://doi.org/10.1016/j.ccs.2019.100291>
4. *Ahangari, S., **Chavis, C.**, Jeihani, M., *Moghaddam Z.R. (2018). Quantifying the Impact of On-Street Parking on Congestion Mitigation Using a Driving Simulator. *Journal of the Transportation Research Record*. <https://doi.org/10.1177/0361198118773893>

5. **Chavis, C.,** & Gayah, V. V. (2017). Development of a Mode Choice Model for General Purpose Flexible Route Transit Systems. *Journal of the Transportation Research Record*.
6. **Chavis, C.,** & Christofa, E. (2016). A real-time signal control strategy for mitigating the impact of bus stops at urban signalized intersections. *Journal of Intelligent Transportation Systems*, 1–15. <http://dx.doi.org/10.1080/15472450.2016.1194760>
7. **Chavis, C.,** & Daganzo, C. F. (2013). Analyzing the structure of informal transit: The evening commute problem. *Research in Transportation Economics*, 39(1), 277–284. <https://doi.org/10.1016/j.retrec.2012.06.025>

REFEREED CONFERENCE PROCEEDINGS

Lectern Presentations

1. *Ahangari, S., **Chavis, C.,** Jeihani, M., *Moghaddam Z.R. (2018). Quantifying the Impact of On-Street Parking on Congestion Mitigation Using a Driving Simulator. *TRB 97th Annual Meeting Compendium of Papers*. Washington, DC. January 7-11, 2018.
2. **Chavis, C.,** & Gayah, V. V. (2017). Development of a Mode Choice Model for General Purpose Flexible Route Transit Systems. *TRB 96th Annual Meeting Compendium of Papers*. Washington, DC. January 8-12, 2017. Retrieved from <http://docs.trb.org/prp/17-00339.pdf>
3. **Chavis, C.,** & Christofa, E. (2015). A Real-Time Signal Control Strategy for Mitigating the Impact of Bus Stops on Urban Arterials. In *Transportation Research Circular E-C197: Celebrating 50 Years of Research in Traffic Flow Theory*. Retrieved from http://tft.eng.usf.edu/tft50/tft50_papers/P36_Chavis.pdf Portland, Oregon, August 11-13, 2014.
4. **Chavis, C.,** & Daganzo, C. F. (2012). Public, Private, & Informal Transit: The Effect of Operational Structure on the Formation of Mass Transit. Presented at the Kuhmo Nectar Conference in Transportation Economics, Berlin, Germany. June 18-22, 2012.

Poster Presentations

5. *Ahangari, S., Moghaddam, Z.R., Jeihani, M., **Chavis, C.,** Chen, H., Rakha, H., Kang, K. (2019). Investigating the Effectiveness of an Eco-Speed Control System in the Vicinity of Signalized Intersections Using a Driving Simulator. *TRB 98th Annual Meeting Compendium of Papers*. Washington, DC. January 13-17, 2019.
6. *Bhuyan, I., **Chavis, C.,** Barnes, P., *Nickkar, A. (2019). An Equity Gap Planning Analysis of the Baltimore Bike Share System. *TRB 98th Annual Meeting Compendium of Papers*. Washington, DC. January 13-17, 2019.
7. *Karmakar, N., Aghdashi, B., *Babich, J., **Chavis, C.,** Jeihani, M. (2019). The Impact of Arterial Level of Service on Driver Behavior Using High Resolution Trajectory Data. *TRB 98th Annual Meeting Compendium of Papers*. Washington, DC. January 13-17, 2019.
8. *Nickkar, A., **Chavis, C.,** *Phyall, H., Barnes, P. (2018). A Spatial-Temporal Analysis of Baltimore Bikeshare Ridership. *TRB 97th Annual Meeting Compendium of Papers*. Washington, DC. January 7-11, 2018.
9. *Brown, D.D., Jeihani, M., *Moghaddam, Z.R., **Chavis, C.,** *Karmakar, N., Aghdashi, B. (2018). Impact of Level of Service (LOS) on the Driver's Behavior on Arterials. *TRB 97th Annual Meeting Compendium of Papers*. Washington, DC. January 7-11, 2018.

10. **Chavis, C.**, *Davis, T., *Norris, T., Jones, A. (2018). An Analysis of Food Accessibility Using the USDA Food Acquisition and Purchase Survey. *TRB 97th Annual Meeting Compendium of Papers*. Washington, DC. January 7-11, 2018.
11. *Bush, K., & **Chavis, C.** (2017). Safety Analysis of On-Street Parking on an Urban Principal Arterial. In *TRB 96th Annual Meeting Compendium of Paper*. Washington, DC. January 8-12, 2017. Retrieved from <http://docs.trb.org/prp/17-06829.pdf>
12. Karner, A., Golub, A., & **Chavis, C.** (2017). Assessing Regional Disparities in Public Transportation Performance with Archived GTFS-Realtime Data. In *Transportation Research Board 96th Annual Meeting*. Washington, DC. January 8-12, 2017.
13. *Ntonifor, C. M., & **Chavis, C.** (2017). Valuation of the Impacts of Road Diet Implementation Wilson Boulevard Road Diet, Arlington County Virginia. In *TRB 96th Annual Meeting Compendium of Paper*. Washington, DC. January 8-12, 2017.
14. Jeahani, M., *Jarju, A., *Scruggs, J., & **Chavis, C.** (2016). Drivers' Behavior Analysis Under Reduced Visibility Conditions Using a Driving Simulator. In *Transportation Research Board 95th Annual Meeting*. Washington, DC. January 10-14, 2016.
15. *Joseph, D., **Chavis, C.**, & *Ardeshiri, A. (2015). Estimating the Loss of Consumption Due to Driving Cessation Among the Elderly Population. In *Transportation Research Board 94th Annual Meeting*. Washington, DC. January 11-15, 2015.
16. Gonzales, E., **Chavis, C.**, Li, Y., & Daganzo, C. F. (2011). Multimodal transport in Nairobi, Kenya: Insights and recommendations with a macroscopic evidence-based model. In *Transportation Research Board 90th Annual Meeting*. Washington, DC. January 23-27, 2011.

TECHNICAL REPORTS

1. **Chavis, C.**, Jones, A. (2020). Understanding Access to Grocery Stores in Food Deserts in Baltimore City, Urban Mobility & Operations University Transportation Center. https://www.morgan.edu/school_of_engineering/research_centers/urban_mobility_and_equity_center/research/completed_research/food_deserts.html
2. Cirillo, C., *Nejad, M., *Erdogan, S., **Chavis, C.** (2020). E3: Evaluating Equity in Evacuation: A Practical Tool and Case Study, Urban Mobility and Equity Center. <https://www.morgan.edu/Documents/ACADEMICS/CENTERS/NTC/Final%20report%20for%20E3.pdf>
3. Chen, H., Rakha, H., El-Shawarby, I., Jeahani, M., **Chavis, C.**, *Kang, K., *Ahangari, S., *Moghaddamn, Z.R. (2019). Eco-Speed Control for Hybrid Electric Buses in the Vicinity of Signalized Intersections, Mid-Atlantic Transportation Sustainability Universities Transportation Center. http://www.matsutc.org/wp-content/uploads/2019/02/MATS-UTC-Final-Report_Bus-Eco-Driving.pdf
4. **Chavis, C.**, Barnes, P., *Grasso, I., *Bhuyan, I.A., *Nickkar, A. (2018). Bicycle Justice or Just Bicycles? Analyzing Equity in Baltimore's Bike Share Program. Mid-Atlantic Universities Transportation Center. <https://pdfs.semanticscholar.org/f2de/9fef982aae8e126b7021ceed61a5223dbb9.pdf>
5. Aghdashi, B., **Chavis, C.**, *Karmakar, N., Jeahani, M., *Babich, J. Impact of Level of Service (LOS) on the Driver's Behavior on Arterials (2018). University of Maryland National

Transportation Center. Project ID: NTC2016-MU-R-02. Retrieved from <https://pdfs.semanticscholar.org/ff6e/1b12a6581c5d15cf77f2ce1180d6f9dddf3e.pdf>

6. **Chavis, C.**, Jeihani, M., Rakha, H., *Ahangari, S., Du, J., El-Shawarby, I., (2018). Quantifying the Impact of On-Street Parking Information on Congestion Mitigation. Mid-Atlantic Transportation Sustainability Universities Transportation Center. <http://www.matsutc.org/wp-content/uploads/2018/03/Quantifying-the-Impact-of-On-Street-Parking-Information-on-Congestion-Mitigation.pdf>
7. **Chavis, C.**, Lee, Y. J., & Dadvar, S. (2018). Analysis of Bicycle and Pedestrian Crash Causes and Interventions. *District Department of Transportation*, Washington, DC. http://d92016.eos-intl.net/eLibSQL14_D92016_Documents/DDOT_BikePed_FinalReport_20181015.pdf
8. Stein, M., Grigg, J., Cronister, C., **Chavis, C.** and Connolly, F., (2017). Getting to High School in Baltimore: Student Commuting and Public Transportation. *Baltimore Education and Resource Consortium*, Baltimore, MD.
9. **Chavis, C.**, Gayah, V. V., Kim, M., Chen, L., Miller-Hooks, E., & Schonfeld, P. (2016). Integration of Multimodal Transportation Services. Mid-Atlantic Universities Transportation Center. Retrieved from <http://www.mautc.psu.edu/docs/MAUTC-2013-03.pdf>
10. **Chavis, C.** (2016). A Closer Look at Access to Schools”. *Central Maryland Transportation Alliance Report*, Baltimore, MD.
11. Karner, A., Golub, A., & **Chavis, C.** (2016). Understanding Regional Disparities in Public Transportation Performance Using Realtime Transit Data. University of Maryland National Transportation Center, Research Report NTC2015-MU-R-1.
12. **Chavis, C.** (2012). Dynamic Ride-sharing, Feeders, and the Last Mile Problem. Policy brief for Sustainable Mobility & Cities: Marrying Technology and Policy. *The University of California Transportation Center*, Berkeley, CA. <http://escholarship.org/uc/item/4q36r9c8>
13. Gonzales, E., **Chavis, C.**, Li, Y., and Daganzo, C. (2009). Multimodal Transport in Nairobi, Kenya: Insights and Recommendations with a Macroscopic Evidence-Based Model. *UC Berkeley Volvo Working Paper*, UCBITS-VWP-2009-5, Institute of Transportation Studies, Berkeley, CA. <http://escholarship.org/uc/item/6dv195p7>
14. **Chavis, C.**, Kanairo, K., Samartino, A.L., Sathaye, N., Sidhu, I., Kaminsky, P., and Tenderich, B. (2009). Strategies for Electric Vehicle Deployment in the San Francisco Bay Area. *UC Berkeley Center for Entrepreneurship & Technology Technical Brief*, 2009.7.v.1., Berkeley, CA.

PRESENTATIONS & NON-REFERRED PAPERS PRESENTED

LECTERN PRESENTATIONS

1. **Chavis, C.**, Bhuyan, I. Understanding Grocery Store Accessibility in Baltimore City, Maryland, 13th World Congress of RSAI, Morocco (2020). June 2-5, 2020 (Cancelled due to Covid).
2. **Chavis, C.**, Saka, A., Leveraging GIS to Determine the Nexus Between Student Absenteeism and Public Transportation Using a Bayesian Network, Maryland, 13th World Congress of RSAI, Morocco (2020). June 2-5, 2020 (Cancelled due to Covid).

3. **Chavis, C.**, Bhuyan, I. Assessing Multimodal Access and Conflicts in Shared Bus-Bike Lanes Using Computer Vision Tools, 2020 ITE Mid-Colonial District Annual Meeting, April 19-21, 2020 (Cancelled due to Covid).
4. **Chavis, C.**, Huang, A. Access to Grocery Stores in Baltimore City, Johns Hopkins Civic Impact Policy Forum Webinar, December 6, 2019
5. **Chavis, C.** Transportation Equity: Accessing Opportunity, Anne Arundel Women Giving, October 2, 2019.
6. **Chavis, C.** Baltimore Bike Share Infrastructure Planning through the Lens of Equity. *2018 International Conference on Transportation Innovation*, Edmonton, Canada. September 6-7, 2018.
7. **Chavis, C.** Getting to High School in Baltimore. *The Carlos Daganzo Transportation Symposium*. Berkeley, CA. June 20-22, 2018.
8. Workforce Transportation: Challenges and Opportunities. *Baltimore Data Day Opening Session Panelist*. Baltimore, MD. July 12, 2018.
9. Dorsey, R., Cornish, L., **Chavis, C.**, Gwitira, T., Henderson, L. & Jeffers, K. Changing our City by Completing the Street: Legislating from the Sidewalk Up. *Reverberations: The Roots and Relevance of Community Design Conference*. Baltimore, MD. June 8-9, 2018.
10. Dorsey, R., Cornish, L., **Chavis, C.**, Gwitira, T., Henderson, L. & Jeffers, K. Changing our City by Completing the Street: Legislating from the Sidewalk Up. *Intersections: Creating Culturally Complete Streets*. Nashville, TN. April 3-4, 2018.
11. **Chavis, C.** Getting to High School in Baltimore. *University of Massachusetts Amherst PhD Seminar*. Berkeley, CA. October 18, 2017.
12. **Chavis, C.**, & Christofa, E. A real-time signal control strategy for mitigating the impact of bus stops at urban signalized intersections. In *Transportation Research Board Multimodal Signal Systems Committee*. Toronto, Canada. July 31, 2017.
13. **Chavis, C.**, Ahangari, S., & Jihani, M. Quantifying the Impact of On-Street Parking Information on Congestion Mitigation Using a Driving Simulator. In *Institute of Transportation Engineers Annual Meeting*. Toronto, Canada. July 30 – August 2, 2017.
14. **Chavis, C.**, Baltimore Bikeshare: Who's Using and Why?, Baltimore Data Day. *Baltimore Neighborhood Indicators Alliance*. Baltimore, MD. July 14, 2017.
15. **Chavis, C.**, Research Overview of Student Transportation on MTA. *Mergenthaler Vocational Technical High School*. Baltimore, MD. January, 31, 2017.
16. **Chavis, C.**, Emerging Research Areas and Opportunities. *Mid-Atlantic Transportation Center University Transportation Center Annual Meeting*. Charlottesville, VA. August 4, 2016.
17. **Chavis, C.**, Transportation in Baltimore: Past, Present & Future. *Gray Days Better Tomorrows Taskforce*, Morgan State University. Baltimore, MD. April 14, 2016
18. Karner, A., Golub, A., & **Chavis, C.** Assessing Regional Disparities in Public Transportation Using Realtime Data. In *2016 Savannah State University Urban Planning Conference*. Savannah, GA. April 1-2, 2016
19. **Chavis, C.**, Disciplinary Intersections in Transportation. *Geography Awareness Week*, Morgan State University. Baltimore, MD. November 19, 2015.

20. **Chavis, C.**, Multimodal transport in Nairobi, Kenya: Insights and recommendations with a macroscopic evidence-based model. *IBM|Africa*. Nairobi, Kenya. July 2015
21. **Chavis, C.**, Women's History Month Webinar, *Association of Pedestrian and Bicycle Professionals*. Online Webinar. March 26, 2014.
22. **Chavis, C.**, An International Perspective: Multimodal Needs Assessment for Tanzania. *University of Massachusetts Amherst*. Amherst, MA. April 17, 2014.
23. **Chavis, C.**, An International Perspective: Multimodal Needs Assessment for Tanzania Towson University 2014.
24. **Chavis, C.**, & Daganzo, C. F. (2012). Public, Private, & Informal Transit: The Effect of Operational Structure on the Formation of Mass Transit. Presented at the Kuhmo Nectar Conference in Transportation Economics, Berlin, Germany. June 18-22, 2012.

POSTER PRESENTATIONS

25. **Chavis, C.**, Jeihani, M., Ahangari, S. Quantifying the Impact of Parking on Congestion. *Mid-Atlantic Transportation Center University Transportation Center Annual Meeting*. Charlottesville, VA. August 4, 2016.

INVITED PANELIST

26. Homecoming (Black in GIS Affinity Group), ESRI Conference, July 16, 2020
27. Every Voice Counts. Baltimore Metropolitan Council. Baltimore, MD. May 6, 2018.
28. Getting to School in Baltimore, Transportation 101. Baltimore, MD. May 3, 2018
29. A Seat at the Table, Women's Transportation Seminar. Hanover, MD. March 30, 2017.
30. What's on Tap: Complete Streets. Baltimore Metropolitan Council. Baltimore, MD. March 21, 2017.
31. Women in Business and Transportation. Maryland Department of Transportation. Hanover, MD. March 21, 2016.
32. Expanding the Research Discussion on Women's Issues in Transportation. Transportation Research Board 95th Annual Meeting. Washington, DC. January 10-14, 2016.
33. Revisiting the Value of Cross Cultural Awareness for African American Students. *Morgan State University*. Baltimore, MD. November 17, 2015

WORKSHOPS, LECTURES AND PANELS ORGANIZED

- **2018 Youth Symposium** at the Conference of Minority Transportation Officials Annual Meeting, July 2018
- **Transportation Camp Baltimore**, Baltimore, MD, May 2018
- **Every Voice Counts**, Baltimore Metropolitan Council, May 2018
- **Transportation Forum: Policy**, Morgan State University, April 2018
- **White House Taskforce on African American Economic Development** hosted by Senator Tim Scott, June 2017
- **Transportation of Youth Workshop**, Transportation 101, May 3, 2017

- **Transportation Forum: Bike Equity** at Morgan State University, April 2017
- **Expanding the Research Discussion on Women's Issues in Transportation Panel**, Transportation Research Board 95th Annual Meeting. Washington, DC. January 10-14, 2016
- **Annual WDCSITE/Morgan State Joint ITE/ITS Meeting**, Morgan State University, 2015-2017
- **AIMSUM Training Workshop**, Morgan State University, June 27-30, 2016
- **Paratransit Committee Meetings**, TRB Annual Meetings, 2015-Present

MEDIA COVERAGE

Morgan State addresses food insecurity with award-winning new program (article), Baltimore Fishbowl, September 29, 2020. <https://baltimorefishbowl.com/stories/morgan-state-addresses-food-insecurity-with-award-winning-new-program/>

UMD researchers receive \$2.35M award to improve public transit planning in Baltimore (article), Baltimore Sun, September 29, 2020. <https://www.wbaltv.com/article/university-of-maryland-researchers-study-to-improve-public-transit-planning-baltimore/34210996>

Baltimore's Transit Could See More Cuts (radio interview), WYPR 88.1, September 28, 2020. http://player.audiostaq.com/ontherecord/baltimores_tran

Public transportation cuts bad for Maryland's economy (op-ed), Baltimore Sun, September 10, 2020. <https://www.baltimoresun.com/opinion/op-ed/bs-ed-op-0910-baltimore-mta-cuts-20200910-jgsgdysq6vdt3mdzndgzhpexzm-story.html>

Complete Streets Hearing, Expert Panelist, Baltimore City Council, April 25, 2018.

Education & Youth Legislative Hearing (hearing). Baltimore City Council Hearing. January 5, 2017.

Researchers Testing Eco-Speed Control System (newsletter). The NTC Today, Fall 2016. [http://www.morgan.edu/Documents/ACADEMICS/CENTERS/NTC/2016 Fall NTC New sletter-current-TIER%201.pdf](http://www.morgan.edu/Documents/ACADEMICS/CENTERS/NTC/2016%20Fall%20NTC%20New%20letter-current-TIER%201.pdf)

Biking in Baltimore (radio interview). WEAA 88.9 FM, The Marc Steiner Show. October 27, 2016. <http://www.steinershow.org/podcasts/biking-in-baltimore-2/>

BaltimoreLink: Will We Be Better Off (press conference). Central Maryland Transportation Alliance, September 22, 2016.

Faculty Spotlight: Celeste Chavis (newsletter). Mid-Atlantic Transportation Sustainability University Transportation Center. September 27, 2016. <http://www.matsutc.org/2016/09/faculty-spotlight-celeste-chavis-ph-d-morgan-state-university/>

Public Infrastructure and the Amtrak Derailment (radio interview). WEAA 88.9 FM, The Marc Steiner Show. May 14, 2015. <http://www.steinershow.org/podcasts/public-infrastructure-and-the-amtrak-derailment/>

Martin Luther King's Legacy Through the Prism of a Street (radio interview). WYPR.org, Maryland Morning Show. January 19, 2015. <http://wypr.org/post/martin-luther-kings-legacy-through-prism-street>

Morgan State Delegation Visits COSTECH. Tanzania Commission for Science and Technology. February 2014. http://www.costech.or.tz/?page_id=3808

TEACHING EXPERIENCE

UNDERGRADUATE COURSES

2013 – Present	TRSS 301: Introduction to Transportation Systems
2013 – 2014	TRSS 402: Transportation Economics
2013 – Present	TRSS 414: Traffic Engineering
2013 – Present	TRSS 415: Highway Engineering
2013 – Present	TRSS 416: Micro-computing Applications in Transportation
2014 – Present	TRSS 420: Transportation Systems Evaluation
2011 – 2012	CE 155: Traffic Engineering Lab (Univ. of California Berkeley)

GRADUATE COURSES

2013 – 2014	TRSP 602: Transportation Economics
2013 – Present	TRSP 616: Micro-computing Applications in Transportation
2013 – Present	TRSP 620: Transportation Systems Evaluation
2014 – Present	CEGR 514: Environmental Impact and Risk Assessment (1 session per semester)
2019 – Present	TRSP 615: Traffic and Highway Engineering

UNIVERSITY SERVICE

2020	President's Taskforce on Remote Instruction for COVID-19
2020	School of Engineering Dean Position Search Committee
2019 – Present	Canvas Ambassador
2018 – Present	MSU Environmental Studies Workgroup
2018 – 2020	University Council, 2019-2020 Student & Academic Affairs Committee Chair
2017 – Present	ABET Accreditation Department Coordinator
2017 – 2018	MTA BaltimoreLink Bus Layover Committee
2017 – 2018	Civil Engineering Faculty Search Committee
2017 – 2018	Civil Engineering Chair Search Committee
2017 – Present	School of Engineering Web Design Committee
2015 – Present	HBCU Eisenhower Scholarship Campus Manager
2015 – Present	Women's Traffic and Transportation Club Scholarship Manager
2015 – Present	Department Webmaster and Media Coordinator
2014 – Present	Instructional Technology Committee
2014 – 2018	Faculty Development Committee
2013 – 2018	Faculty Advisor, Institute of Transportation Engineers

STUDENT ADVISING

IN-PROGRESS

Committee Chair – Doctoral

1. **Ijeoma Walters**, D.Eng., Civil Engineering, Exp. Graduation: Spring 2021
2. **Istiak Bhuyan**, Ph.D., Transportation, Exp. Graduation: Fall 2021
3. **Martin Ndegwa**, D.Eng., Transportation, Exp. Graduation: Fall 2021

Committee Member – Doctoral

4. **Nashid Khadem**, D.Eng., Transportation, Exp. Graduation: Spring 2022
5. **Samira Ahangari**, Ph.D., Transportation, Exp. Graduation: Fall 2020
6. **Paul Gyamfi**, D.Eng., Transportation, Exp. Graduation: Spring 2021
7. **Amirezza Nickkar**, Ph.D., Transportation, Exp. Graduation: Spring 2021

Committee Member – Masters

1. **Muhib Kabir**, M.S., Transportation, Spring 2021
2. **Latisha Johnson**, M.CRP, City and Regional Planning, Exp. Graduation: Spring 2021

COMPLETED

Committee Chair – Doctoral

1. **Fathy Elgendi**, D.Eng., Civil Engineering, *Access to Schools Using Public Transit in Baltimore: Optimal Allocation of Supplemental Service to Schools*, Spring 2020

Committee Chair - Masters

3. **Chungom Ntonifor**, M.S., Transportation, TRB Minority Fellow, *Valuation of the Impacts of Road Diet Implementation: Wilson Boulevard Road Diet, Arlington, VA*, Spring 2017
4. **Fathy Elgendi**, M.S., Transportation, *Identification of Hotspot Locations along the I-95 JFK Memorial Highway*, Spring 2015
5. **Folashade Shelton**, M.S., Transportation, *Completing the Street: Revitalizing an Urban Corridor using a Multimodal Framework*, Spring 2015
6. **David Joseph**, M.Eng., TRB Minority Fellow, *Estimating the Loss of Consumption due to Driving Cessation among the Elderly Population*, Spring 2015

Committee Member – Doctoral

7. **Chungom Ntonifor**, D.Eng., Civil Engineering, Exp. Graduation: Fall 2020
8. **Hayford Tuffour**, D.Eng., Civil Engineering, *An Assessment of MS4 Phase I Street Infrastructure Maintenance Programs and Targeted Urban Intervention Practices*, Spring 2020
9. **Ahmed Almurshidi**, M.S., Transportation, *Developing an Intelligent Decision Support System Framework for School Transport Management*, Spring 2019
10. **Maryam Sheykhmolouki**, M.S., Transportation, *The Effect of Cellphone Usage on Driving Performance Using an Eye Tracking System and Driving Simulator*, Spring 2019
11. **Snehanshu Banerjee**, Ph.D., Transportation, Exp. Graduation: Spring 2019
12. **Safieh Laaly**, D.Eng, *Sustainable Transit Oriented Development (TOD) Definition as an Alternative Paradigm for Planners and Decision-makers*, Spring 2014

Committee Member – Masters

13. **Kristen Misage**, M.CRP., *Who's Better Served? A Quantitative Analysis of Variation in Service Time to Clear Open-Air Trash in Baltimore City*, Spring 2020
14. **Hamed Emami**, M.S., *Driver Reactions to Forward Collision Warnings*, Fall 2019
15. **Randy Radford**, M.CRP., *Evaluating Road Pricing Acceptability in Washington Metropolitan Area*, Spring 2019
16. **Danny Brown**, M.S., *Impact of Level of Service (LOS) on Driver's Behavior on Arterials – A Driving Simulator-Based Study*, Spring 2019
17. **Duwan Morris**, M.S., *Impact of Work Zone Signage on Driver Speeding Behavior: A Driving Simulator Study*, Spring 2019
18. **Zohreh Rashidi Moghaddam**, M.S., *Travelers' Route Choice Behavior in Response to Travel Time Reliability Information Provision*, Spring 2018
19. **Ibrahim Aka**, M.S., *Driver Speed Behavior in the Vicinity of Variable Message Sign (VMS) Using a Driving Simulator*, Fall 2017
20. **Tiffani Davis**, M.CRP., *The Business of Building Highways: How to Effectively Manage Stakeholders in Transportation Planning and the NEPA Process – A Case Study of the Purple Line and US 301* Spring 2017
21. **Alasan Jarju**, M.S., TRB Minority Fellow, *Drivers' Behavior Analysis under Reduced Visibility Condition using a Driving Simulator*, Spring 2017
22. **Arash Adeli**, M.S., *Work Zone Speed Analysis Using Driving Simulator Data*, Fall 2014
23. **Shiva Narooienezhad**, M.S., *Integration of Driving Simulator and Traffic Simulator Case Study: Exploring Drivers' Behavior in Response to Variable Messaging Signs*, Fall 2014
24. **Matthew Crooks**, *Bus Route Evaluation and Route Change Guidelines for the Fairfax Connector Bus System*, Spring 2013