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EDUCATION

- 2018 – 2021: Florida International University (FIU), Ph.D. in Civil Engineering
Dissertation: *Estimation of the Mobility Benefits of Ramp Metering*
Committee: Dr. Priyanka Alluri (Advisor), Dr. Albert Gan, Dr. Mohammed Hadi,
Dr. Xia Jin, Dr. Florence George, and Dr. Thobias Sando
- 2016 – 2018: University of North Florida (UNF), M.S. in Civil Engineering
Thesis: *Evaluation of Traffic Incident Timeline to Quantify the Performance of
Incident Management Strategies*
Committee: Dr. Thobias Sando (Advisor), Dr. Don Resio, and Dr. Ching-Hua Chuan
- 2011 – 2015: University of Dar es Salaam, B.S. in Civil and Transportation Engineering

PROFESSIONAL EXPERIENCE

- 2022 – Present: Research Assistant Professor, University of Arizona
- 2022 – Present: Center Manager, University of Arizona Center for Applied Transportation Sciences
- 2021 – 2022: Postdoctoral Fellow, Florida Atlantic University
- 2021 – 2022: Postdoctoral Associate (Courtesy), Florida International University
- 2018 – 2021: Graduate Research Assistant, Florida International University
- 2016 – 2018: Graduate Research Assistant, University of North Florida
- 2016 – 2017: Graduate Teaching Assistant, University of North Florida
- 2015 – 2016: Teaching Assistant, University of Dar es Salaam

RESEARCH PROJECTS

1. *A Safe Systems Approach to Motorcycle Safety*, States Department of Transportation Grant, Collaborative Sciences Center for Road Safety, PI: Dr. Dumbaugh, 2021 - 2022
2. *Guidelines for Activating Ramp Meters during Off-peak Hours and Weekends*, Florida Department of Transportation, PI: Dr. Alluri, 2021 - 2021
3. *Performance Evaluation of Connected Vehicle (CV) and Transportation Systems Management and Operations*, Florida Department of Transportation, PI: Dr. Alluri, 2020 - 2021
4. *Developing Florida-specific Mobility Enhancement Factors (MEFs) and Crash Modification Factors (CMFs) for TSM&O Strategies*, Florida Department of Transportation, PI: Dr. Alluri, 2018 – 2020
5. *Evaluation of Incident Response Improvements for Statewide Application: Learning from the New Regional Traffic Management Center in Jacksonville, FL*, Florida Department of Transportation, PI: Dr. Sando, 2017 – 2018

6. *Micro-Analysis of Collisions in Crash Clusters: Creating Crash Patterns and Conducting a Driver Simulation Study*, States Department of Transportation Grant, Center for Accessibility and Safety for an Aging Population, PI: Dr. Sando, 2016 – 2017

PUBLICATIONS

Journal Papers Under Review

1. **Haule, H.**, Alluri, P., Sando, T., and Gan, A. (2nd Review). Analyzing the Effectiveness of Ramp Metering in Alleviating Crash-related Congestion on Freeways. *Journal of Transportation Planning and Technology*.
2. **Haule, H.**, Alluri, P., and Sando, T. (1st Review). Evaluating Traffic Incident Clearance Time using Threshold Regression Model. *Transportmetrica A: Transport Science*.
3. Salum, J., Kitali, A., **Haule, H.**, and Alluri, P. (1st Review). Benefit-Cost Analysis of Rapid Incident Scene Clearance Program. *Transportation Research Record: Journal of the Transportation Research Board*.

Refereed Journal Papers

1. Kitali, A., **Haule, H.**, Alluri, P., and Sando, T. (2022). Examining the Influence of Work Zones on the Propensity of Secondary Crashes: Case Study of Florida Turnpike. *ASCE Journal of Transportation Engineering, Part A: Systems*.
2. **Haule, H.**, Alluri, P., Sando, T. (2022). Mobility Impacts of Ramp Metering Operations on Freeways. *ASCE Journal of Transportation Engineering, Part A: Systems*, 148 (2).
3. Lalika, L., Kitali, A., **Haule, H.**, Kidando, E., Sando, T., and Alluri, P. (2021). What are the Leading Causes of Older Pedestrian Fatalities? Evidence from Bayesian Network Model. *Journal of Safety Research*.
4. Monyo, D., **Haule, H.**, Kitali, A., and Sando, T. (2021). Are Older Drivers Safe on Interchanges? Analyzing Driving Errors Causing Crashes. *Transportation Research Record: Journal of the Transportation Research Board*, 2675 (12):635 – 649.
5. **Haule, H.**, Ali, M.S., Kitali, A., (2021). Factors Influencing the Severity of Crashes Near Exit Ramps in North Carolina. *ITE Journal*, 91 (9): 41 – 49.
6. Ali, M.S., **Haule, H.**, Alluri, P., Kaiser, E. (2021). Evaluating the Potential Mobility Benefits of Transit Signal Priority with Connected Vehicle Technology. *Advances in Transportation Studies*, 55 (2021): 53 – 68.
7. **Haule, H.**, Ali, M.S., Alluri, P., and Sando, T. (2021). Evaluating the Effect of Ramp Metering on Freeway Safety Using Real-Time Traffic Data. *Accident Analysis and Prevention*, 157 (July 2021): 106181.
8. Kadeha, C., **Haule, H.**, Ali, M.S., Alluri, P., and Ponnaluri, R. (2021). Modeling Wrong-Way Driving (WWD) Crash Severity on Arterials in Florida. *Accident Analysis and Prevention*, 151 (March 2021): 105963.
9. **Haule, H.**, Alluri, P., Sando, T., and Raihan, A. (2020). Investigating the Impact of Rain on Crash-Clearance Duration. *ASCE Journal of Transportation Engineering, Part A: Systems*, 146 (11).
10. **Haule, H.** (2019). South Florida Transit: A Perspective of a New Resident. *ITE Journal*, 89 (5): 14 -16.
11. **Haule, H.**, Sando, T., Lentz, R., Chuan, C., and Alluri, P. (2019). Evaluating the Impact and Clearance Duration of Freeway Incidents. *International Journal of Transportation Science and Technology*, 8 (1): 13 -24.

12. **Haule, H.**, Sando, T., Kitali, A., and Richardson, R. (2019). Investigating Proximity of Crash Locations to Aging Pedestrian Residences. *Accident Analysis and Prevention*, 122 (January 2019): 215 – 225.
13. **Haule, H.**, Sando, T., and Alluri, P. (2018). Impact of Co-location of Response Agencies on the Traffic Incident Timeline. *Advances in Transportation Studies*, 46 (November 2018): 67 – 80.
14. Kitali, A., Alluri, P., Sando, T., **Haule, H.**, Kidando, E., and Lentz, R. (2018). Likelihood Estimation of Secondary Crashes using Bayesian Complementary Log-log Model. *Accident Analysis and Prevention*, 119 (October 2018): 58 -67.

Full-paper Refereed Proceedings

1. Ali, M.S., **Haule, H.**, Kodi, J., Alluri, P., and Sando, T. “Transferability of Calibrated Microscopic Simulation Model Parameters for Operational Analysis of Transit Signal Priority” Proceedings of the Transportation Research Board's 101st Annual Meeting, Washington DC, USA, January 2022.
2. Monyo, D., **Haule, H.**, Kitali, A., and Sando, T. “Are Older Drivers Safe on Interchanges? Analyzing Driving Errors Causing Crashes” Proceedings of the Transportation Research Board's 100th Annual Meeting, Virtual Event, January 2021.
3. **Haule, H.**, Alluri, P., and Sando, T. “Evaluating Traffic Incident Clearance Time using a Threshold Regression Model” Proceedings of the Transportation Research Board's 100th Annual Meeting, January 2021.
4. **Haule, H.**, Alluri, P., Sando, T., and Raihan, A. “Investigating the Impact of Rain on Crash Clearance Duration” Proceedings of the Transportation Research Board's 98th Annual Meeting, Washington, DC, January 2019
5. **Haule, H.**, Sando, T., Lentz, R., Chuan, C., and Alluri, P. “Evaluating the Impact and Clearance Duration of Freeway Incidents.” Proceedings of the Transportation Research Board's 97th Annual Meeting, Washington DC, USA, January 2018.
6. **Haule, H.**, Sando, T., Kitali, A., Angel, M., and Ozguven, E. “Influence of Intersection Characteristics on Elderly Driver Crash Involvement.” Proceedings of the Transportation Research Board's 97th Annual Meeting, Washington DC, USA, January 2018.

Final Research Reports

1. Alluri, P., Salum, J., Kitali, A., **Haule, H.**, and Angel, M. (2022). *Performance Evaluation of Connected Vehicle (CV) and Transportation Systems Management and Operations*, Final Research Report, Florida Department of Transportation, Tallahassee, FL.
2. Alluri, P., Sando, T., Kadeha, C., **Haule, H.**, Salum, J., Ali, M.S., Kodi, J., and Kitali, A. (2020). *Developing Florida-specific Mobility Enhancement Factors (MEFs) and Crash Modification Factors (CMFs) for TSM&O Strategies*, Final Research Report, Florida Department of Transportation, Tallahassee, FL.
3. Sando, T., Alluri, P., Chuan, C., **Haule, H.**, Kitali, A., Lentz, R., and Huq, A. (2018). *Evaluation of Incident Response Improvements for Statewide Application: Learning from the New Regional Traffic Management Center in Jacksonville*, Florida, Final Research Report, Florida Department of Transportation, Tallahassee, FL.

PRESENTATIONS

1. “Mobility and Safety Benefits of Ramp Metering” Justice, Equity, Diversity, and Inclusion (JEDI) Council Seminar Series, School of Engineering and Technology (SET) at the University of Washington, Tacoma, April 21, 2022 (Virtual Presentation).

2. “Are Older Drivers Safe on Interchanges? Analyzing Driving Errors Causing Crashes” 100th Annual Meeting of the Transportation Research Board-A Virtual Event, January 27, 2021 (Poster Session).
3. “Evaluating the Safety Impacts of Ramp Metering on Freeways” Doctoral Student Research in Transportation Safety at the 100th Annual Meeting of the Transportation Research Board-A Virtual Event, January 26, 2021.
4. “Evaluating Traffic Incident Clearance Time using a Threshold Regression Model” 100th Annual Meeting of the Transportation Research Board-A Virtual Event, January 26, 2021 (Poster Session).
5. “Improving Freeway Mobility by Managing and Operating Ramp Metering Systems” FLPRITE ITE Virtual Annual Meeting-Shark Tank Competition, November 18, 2020.
6. “Investigating the Impact of Rain on Crash-Clearance Duration” Graduate Seminar, Florida International University, Miami, FL, November 6, 2020.
7. “Evaluating the Mobility and Safety Benefits of Ramp Metering” Graduate Seminar, Florida International University, Miami, FL, January 24, 2020.
8. “Analysis of Wrong-Way Driving (WWD) Crash Severity on Arterials” 99th Annual Meeting of the Transportation Research Board, Washington, DC, January 13, 2020 (Poster Session).
9. “TSM&O Solutions to Mitigate Wrong-Way Driving (WWD) Crashes on Arterials” 2019 FLPRITE Summer Meeting, Orlando, FL, June 23, 2019 (Poster Session).
10. “The Future of Transportation in the World of Real-time Traffic Data and Emerging Technologies.” 2019 Transportation Camp Florida, Miami, FL, May 10, 2019.
11. “South Florida Transit: The Perspective of a New Resident,” 2018 GGCITE Book Scholarship Award Ceremony, Miami, FL, January 25, 2019.
12. “Influence of Adverse Weather Conditions on Crash Clearance Time” 2019 Lifesavers National Conference on Highway Safety Priorities, Louisville, KY, March 1, 2019 (Poster Session).
13. “A Framework to Identify Secondary Crashes on Freeways” Managing Roadways and Transit Together to Move People into a New Age of Technology: Joint Mid-Year Conference (Poster Session), Bellevue, WA, September 26, 2018.
14. “Investigating Proximity of Crash Locations to Aging Pedestrian Residences” 5th Annual Transportation Day, Tallahassee, FL, November 30, 2018.
15. “Close or Far from Home? An Investigation on Location of Older Pedestrian Crashes” 5th Annual UTC Conference for the Southeastern Region (Poster Session), Gainesville, FL, November 16, 2017.

TEACHING EXPERIENCE

Guest Lecturer for:

- Highway Safety Analysis, FIU, Fall 2021
- Highway Geometric Design, FIU, Spring 2022

Teaching Assistant for:

- Fundamentals of Engineering (FE) Review, FIU, Summer 2020
- Environmental Engineering Seminar, FIU, Summer 2020
- Highway Geometric Design, UNF, Spring 2018
- Civil Engineering Materials, UNF, Fall 2017

PROFESSIONAL SERVICE

- Peer Reviewer for:
 - Journal of Transportation Engineering, Part A: Systems (2020 – Present)
 - Transportation Research Record: Journal of the Transportation Research Board (2020 – Present)
 - Accident Analysis and Prevention (2019 – Present)
- Treasurer, ITE-FIU Student Chapter (2019-2020)
- Membership Chair, ITE-FIU Student Chapter (2018-2019)
- Assistant Finance Chair, 2020 Florida-Puerto Rico ITE Student Leadership Summit

PROFESSIONAL MEMBERSHIPS

- Phi Kappa Phi Honor Society (2017 - Present)
- Institute of Transportation Engineers (ITE) International (2018 – Present)
- ITE-FIU Chapter (2018 – 2021)
- Women’s Transportation Seminar (WTS) FIU Chapter (2018 – 2021)
- American Society of Civil Engineers (ASCE) (2018-present)
- ASCE - UNF Chapter (2016-2018)
- American Society of Highway Engineers (ASHE) - UNF Chapter (2016-2018)

PROFESSIONAL CERTIFICATION

- Passed F.E. – Civil in Florida (Verifiable link: <https://account.ncees.org/rn/2162997-1367341-f7ab66e>)

HONORS, AWARDS & SCHOLARSHIPS

- Winner, 2021 Excellence in Highway Safety Data Award
- Winner, 2021 Florida-Puerto Rico ITE Best Student Paper Award
- *Runner-up*, 2020 Florida-Puerto Rico ITE Virtual Shark Tank Competition
- *Recipient*, 2020 FIU Graduate and Professional Student Committee Scholarship
- *Recipient*, Fall 2020 FIU Dissertation Year Fellowship
- *Finalists*, 2019 NOCoE Transportation Technology Tournament
- *Recipient*, 2019 LifeSavers Traffic Safety Scholarship
- *Recipient*, 2019 FIU Graduate and Professional Student Committee Scholarship
- *Winner*, 2018 Gold-Coast-Chapter ITE Annual Book Scholarship
- *Winner*, Best Student Paper Award, 2018 Managing Roadways and Transit Together to Move People into a New Age of Technology: Joint Mid-Year Conference
- *Recipient*, 2018 FIU Graduate and Professional Student Committee Scholarship
- *Recipient*, 2017 UNF Graduate Research Grant