Pruthvi Manjunatha

309 Weil Hall, University of Florida, Gainesville, FL 32611, Phone: (352)-215-8941
Email: pruthvim@ufl.edu Website: https://pruthvimanjunatha.github.io/

Research Areas

Traffic Operations, Autonomous and Connected Vehicle Technologies, Traffic Microsimulation, Signal Control, Intelligent Transportation Systems, Autonomous Transit, Human Factors in Traffic Engineering, Driving Simulation.

Education

Doctor of Philosophy, Civil Engineering, University of Florida, Gainesville, Florida, August 2018. Dissertation: Identification, Measurement and Incorporation of Human Factors in Traffic Microsimulation Using Driving Simulator Observations

Master of Technology, Transportation Systems Engineering, Indian Institute of technology, Bombay, India June 2012. Thesis (At Karlsruhe Institute of Technology, Germany): A Methodology for Calibration of Traffic Micro Simulators in Mixed Traffic Condition

Bachelor of Engineering, Civil Engineering, Visvesvaraya Technological University, Mysore, India, May 2010. Thesis: Stabilization of Coal Ashes for Use in Various Geotechnical Engineering Applications

Notable Awards and Scholarships

La Salle Summer Academy Visiting Scholar – Wrote the winning proposal and taught summer course on Sustainable Transportation Systems at La Salle University, Colombia (2018)

Runner-up, ITE International Annual Traffic Bowl Competition, Seattle (2014)

German Academic Exchange (DAAD) Scholar – Research on advanced traffic simulation at Karlsruhe Institute of Technology, Germany (2011–2012)

All-India Ranking of 251 (out of over 100,000 students) in the National Graduate Exam for Civil Engineering (2011).

Karnataka State Council for Science and Technology Research Scholar (2009-2010)

Current Employment

Research Assistant Professor and
I-STREET Emerging Transportation Technologies Program Manager,
University of Florida Transportation Institute (UFTI) (Since July 2019):

- Coordination with the City of Gainesville and Florida Department of Transportation and its seven districts in the planning and implementation of emerging technologies on real world streets and highways.

- Coordination with legislatively appointed advisory board and policy makers (FL Senate Bill 64 and House Bill 425, 2023).

- Collaborating with industry partners and stakeholders (80+ connections, 10+ testing partners) to coordinate software, hardware and application efforts and ensure consistency and interoperability.

- Managing the [industry partnership program](#) and coordinating with the corporate board.

- Collaborating with communications team and media to disseminate cutting edge research and scientific information to the public in an effective manner.

- Research on emerging transportation technologies from three perspectives:

  - Vehicle- Development and testing of Connected and Autonomous Vehicle (CAV) technologies with [AVIAN research group](#). Research on the design of effective in-vehicle devices and Advanced Driver Assistance Systems (ADAS). Collaboration with FHWA's program for Cooperative Driving Automation [(CDA).](#)

  - Infrastructure –Signal optimization for traffic mix with conventional and connected vehicles, evaluating smart sensors, pedestrian and bicyclist safety applications, developing simulation frameworks for analyzing the impact of CAVs.

  - Road user – Collaboration with [human factors research group](#) at UFTI, using driving simulators to study and model driver behavior, research on the effect of smart devices on drivers, pedestrians, and bicyclists' safety, studying perception and use of autonomous shuttles and the impact of user interface designs on road users.

- Teaching the undergraduate course on introduction to transportation engineering and the graduate course on traffic simulation and control. Developing course materials on Connected and Autonomous Vehicles and their incorporation in transportation models and analyses for both university curriculum and professional development.

Current projects:
- Research on Artificial-Intelligence for Data Integration with State Highways (RADISH)
- Support for the I-STREET (Implementing Solutions from Transportation Research Evaluation of Emerging Technologies) Living Lab
- Scan and Review of Autonomous Shuttle Operations and Other Personal Transportation Options Affecting Autonomous Transit Viability
- Evaluation of Gainesville Pedestrian-Bicyclists' Connected Vehicle Pilot Phase 2
- Evaluation of Interstate 4 (I-4) Florida's Regional Advanced Mobility Elements- Phase 2
- Evaluation of Advanced Vehicle and Communication Technologies using Microsimulation Phase 2

Completed projects:
- Evaluation of Cooperative Automation Research Mobility Applications (CARMA) for I-STREET Living Lab Implementation

- Transportation Mobility Assessment and Recommendations for Smart City Planning
- Develop, Refine, and Validate a Survey to assess Adult's Perspectives of Autonomous Ride-Sharing Services
- Extended Development and Testing of Optimized Signal Control with CAVs
- Data Analytics and Evaluation of the Gainesville Trapezium Connected Vehicle Signal Phase and Timing (SPaT) Deployment Project
- Evaluation of Advanced Vehicle and Communication Technologies using Microsimulation Phase 1
- Evaluation of Interstate 4 (I-4) Florida's Regional Advanced Mobility Elements Phase 1
- Evaluation of Gainesville Pedestrian-Bicyclists' Connected Vehicle Pilot Phase 1

Previous Employment

Post-Doctoral Associate, UFTI (October 2018 – July 2019)
- Evaluation of Public Acceptance of Autonomous Technology in Gainesville, FL
- Evaluation of Arterial Corridor Improvements and Traffic Management Plans in Florida
- TTE 6259 Urban Streets Simulation and Control (Instructor)

Graduate Assistant, University of Florida (August 2013-August 2018)
- Evaluation of Adaptive Signal Controlled Corridors in Florida (Lead Researcher)
- Development of Support Systems and Instructional Modules for Driving Simulator at UF
- TTE 4004c Transportation Engineering (Instructor)
- TTE 6267 Traffic Flow theory (Teaching Assistant)

Graduate Transport Planner, Atkins, India (July 2012 – July 2013)
- Traffic Impact Assessment, Microsimulation Modeling, Signal Optimization.
- Working experience with VISSIM, LINSIG, ARCADY and PICADY
- Preliminary knowledge of demand modeling with EMME and SATURN
- Working experience with English and Welsh Traffic codes and manuals

Teaching Assistant, Indian Institute of Technology (July 2010 – July 2011)
- CE 434: Traffic Analysis and Design (Lab Instructor)
- CE 740: Traffic Engineering (Teaching Assistant)

Research Grants

- Interstate 4 (I-4) Florida's Regional Advanced Mobility Elements Stakeholder Coordination for Phase II: Comprehensive Assessment of "Before" and "After" Conditions
  Grant number: BED31-977-018
  Source of Funding: Florida Department of Transportation
  Role: Co-PI
  Coordinating with four partner universities (UF, USF, UCF and Florida Poly) to provide the comprehensive evaluation of the connected vehicle infrastructure investments.
  Total Amount Awarded: $527,682
  Dates Conducted: June 2023 to June 2028

- Evaluation of Gainesville Pedestrian-Bicyclists Connected Vehicle Pilot
  Grant number: BED31-977-023
  Source of Funding: Florida Department of Transportation
  Role: Co-PI
  Leading the design and development of data collection, focus groups and survey to assess the effectiveness of the deployed system to improve the safety of vulnerable road users.
  Total Amount Awarded: $308,385
  Dates Conducted: June 2023 to June 2028

- Scan and Review of Autonomous Shuttle Operations and Other Personal Transportation Options Affecting Autonomous Transit Viability
  Grant number: BED31-977-022
  Source of Funding: Florida Department of Transportation
  Role: Co-PI
  Seeking out and interviewing the experts in the field of autonomous mobility to provide a comprehensive picture of state of the art to the Florida DOT for further planning and investments.
  Total Amount Awarded: $171,600
  Dates Conducted: June 2023 to May 2024

- Research on Artificial-Intelligence for Data Integration with State Highways (RADISH)
  Grant number: BED31-977-008
  Source of Funding: Florida Department of Transportation
  Role: Lead Researcher
  Developing a system to utilize state highway data to improve traffic conditions on ramp facilities.
  Total Amount Awarded: $321,020
  Dates Conducted: June 2022 to March 2024

- Support for the I-STREET Living Lab
  Grant number: BED31-977-006
  Source of Funding: Florida Department of Transportation
  Role: Co-PI
  Developing a strategic plan that addresses research, industry, education and public agencies' need in the emerging transportation technologies in the state of Florida.
  Total Amount Awarded: $232,593
  Dates Conducted: June 2022 to November 2023

- Before-After Study of Pedestrian-Bicyclists Gainesville Connected Vehicle Pilot
  Grant number: BDV31-977-120
  Source of Funding: Florida Department of Transportation
  Role: Co-PI
  Leading the design and development of data collection, focus groups and survey to assess the

effectiveness of the deployed system to improve the safety of vulnerable road users.
Total Amount Awarded: $412,989
Dates Conducted: June 2019 to October 2023

- Before Remote Sensing and Prediction of Environmental Noise to Facilitate Addressing the Social and Health Issues of Noise - Pilot Study: Schools and Hospitals
Grant number: NSF 2125427
Source of Funding: National Science Foundation
Role: Lead Researcher
Coordinating with Architecture faculty to aid research on traffic acoustics and their effect on populations near facilities such as hospitals.
Total Amount Awarded: $149,437
Dates Conducted: October 2021 to September 2023

- Evaluation of Advanced Vehicle and Communication Technologies through Traffic Microsimulation (Phase 2)
Grant number: STRIDE Project I5
Source of Funding: STRIDE UTC USDOT
Role: PI
Leading a consortium of universities to enhance and existing simulation framework and to develop CAV educational materials.
Total Amount Awarded: $500,292
Dates Conducted: August 2021 to December 2023
Report: https://rosap.ntl.bts.gov/view/dot/57280

- Evaluation of Interstate 4 (I-4) Florida's Regional Advanced Mobility Elements
Grant number: BDV31-977-139
Source of Funding: Florida Department of Transportation
Role: Co-PI
Coordinating with four partner universities (UF, USF, UCF and Florida Poly) to provide the comprehensive evaluation of the connected vehicle infrastructure investments.
Total Amount Awarded: $314,334
Dates Conducted: March 2021 to December 2022

- Evaluation of CARMA for I-STREET implementation
Grant number: BDV31-977-145
Source of Funding: Florida Department of Transportation
Role: PI
Lead a stakeholder alliance of UF, FHWA and FDOT to evaluate the CARMA CDA ecosystem and developing use cases for practical implementation.
Total Amount Awarded: $94,948
Dates Conducted: January 2022 to November 2022

- Public Acceptance of Autonomous Vehicle (AV) Technology
  Grant number:
  Source of Funding: University of Florida
  Role: Lead Researcher
  Lead data collection and survey efforts to assess the public perception of the autonomous shuttle deployment in Gainesville, FL.
  Total Amount Awarded: $49,918
  Dates Conducted: May 2017 to September 2022

- Transportation Mobility Assessment and Recommendations
  Grant number: BDV31-977-115
  Source of Funding: Florida Department of Transportation
  Role: Co-PI
  Lead focus groups and reached out to community leaders to conduct Community Based Participatory Research (CBRP). Assessed mobility needs in two diverse communities with contrasting socio-economic characteristics.
  Total Amount Awarded: $468,877
  Dates Conducted: June 2019 to November 2021
  Report: https://rosap.ntl.bts.gov/view/dot/63304

- Data Analytics and Evaluation of the Gainesville Trapezium Connected Vehicle Signal Phase and Timing (SPaT) Deployment Project
  Grant number: BDV31-977-117
  Source of Funding: Florida Department of Transportation
  Role: Lead Researcher
  Coordinated with PI from computer science background to develop a data pipe that ingests data from ATSPM systems and generates level of service information for network of intersections. Used this automated system to evaluated the impact of CV pilot deployment.
  Total Amount Awarded: $249,655
  Dates Conducted: June 2019 to November 2021
  Report: https://rosap.ntl.bts.gov/view/dot/62708

- Extended Development and Testing of Optimized Signal Control with CAVs
  Grant number: BDV31-977-109
  Source of Funding: Florida Department of Transportation
  Role: Co-PI
  Lead the effort to include pedestrian detection and enhance an existing two-level optimization system that provides ideal trajectories as well as signal plans for an intersection system.
  Total Amount Awarded: $434,010
  Dates Conducted: March 2019 to July 2021
  Report: https://rosap.ntl.bts.gov/view/dot/62604

- Develop, Refine, and Validate a Survey to Assess Adult's Perspectives of Autonomous Ride-

Sharing Services for Human Factors and Traffic Operational Observations
Grant number: BDV31-977-128
Source of Funding: Florida Department of Transportation
Role: Co-PI
Lead development of a survey to assess the public perception of the autonomous technologies. Assessed public's on-road reaction to autonomous shuttle deployment in Lake Nona, FL
Total Amount Awarded: $203,948
Dates Conducted: November 2019 to June 2021
Report: https://rosap.ntl.bts.gov/view/dot/61849

- Evaluation of Advanced Vehicle and Communication Technologies through Traffic Microsimulation (Phase 1)
  Grant number: STRIDE Project D (2018-004)
  Source of Funding: STRIDE UTC USDOT
  Role: PI
  Lead a consortium of universities to develop a simulation framework that models CAVs and their effects including emissions.
  Dates Conducted: April 2018 to February 2021
  Report: https://rosap.ntl.bts.gov/view/dot/57280

- Development of Support Systems, Instructional Modules, and a Case Study for the Enhanced Driving Simulator at the Gator Tech Smart House
  Grant number: STRIDE Project H (2016-006)
  Source of Funding: Florida Department of Transportation
  Role: Lead Researcher
  Contributed to development of an instructional module to use driving simulators for traffic safety and engineering research.
  Total Amount Awarded: $49,992
  Dates Conducted: May 2017 to September 2020
  Report: https://rosap.ntl.bts.gov/view/dot/37166

- Evaluation of Arterial Corridor Improvements and Traffic Management Plans in Florida
  Grant number: BDV-32-977-44
  Source of Funding: Florida Department of Transportation
  Role: Lead Researcher
  Lead the data collection efforts and evaluated the arterial corridors in Jacksonville, FL for mobility and safety.
  Total Amount Awarded: $137,964
  Dates Conducted: June 2015 to September 2019
  Report: https://rosap.ntl.bts.gov/view/dot/50017

- Before and After-Implementation Studies of Advanced Signal Control Technologies in Florida
  Grant number: BDV-32-977-05
  Source of Funding: Florida Department of Transportation
  Role: Lead Researcher
  Designed and lead the data collection efforts and evaluation of "Adaptive Traffic Control" technologies in eight different corridors across the state of Florida. Coordinated with various TMCs and interviewed staff at public agencies to understand the lessons learnt from pilot deployments. Conducted a cost-benefit analysis and provided a set of recommendations for implementation of such technologies.
  Total Amount Awarded: $840,133
  Dates Conducted: May 2014 to September 2019
  Report: https://rosap.ntl.bts.gov/view/dot/65581

Publications

Karamouzis, O., Kibet, L., Manjunatha.P., & Elefteriadou, L. "State-of-the-Art Vehicle-to-Pedestrian(V2P) Systems Technology: Survey and Recommendations for Effective Deployments". IEEE Transactions on Intelligent Transportation Systems., September 2023 (Under review)

Jeghers, M., Classen, S., Manjunatha, P., & Elefteriadou, L. "An examination of two diverse communities: Residents' transportation behaviors, challenges, and opportunities". OTJR: Occupation, Participation, and Health., March 2023
https://doi.org/10.1177/15394492231167780

Carvalho, L., Guerra, A., Wang, X., Manjunatha, P., and Elefteriadou, L. "Simulation Platform for Testing and Evaluation of CAV Trajectory Optimization and Signal Control Algorithm Integrated with Commercial Traffic Simulator" Winter Simulation Conference, INFORMS, Singapore. December 2022.

Manjunatha, P., Roy, S., Elefteriadou, L., Guin, A., Hunter. M. "Evaluation of the Operational Effects of Autonomous and Connected Vehicles through Microsimulation" Journal of Transportation Research Record., February 2022.
https://doi.org/10.1177/03611981211068460

Manjunatha, P., Mason, J., Classen, S., Elefteriadou, L., Huang, E. "Public Perception and Lessons Learned from Autonomous Shuttle Demonstration Studies". Transportation Research Board Annual Meeting. Washington D.C., January 2022

Mohebbi. M., Patni. S., Elefteriadou. L., Srinivasan. S., Manjunatha. P. "Transportation Mobility Assessment and Recommendations for Smart City Planning". Transportation Research Board Annual Meeting. Washington D.C., January 2022

Manjunatha, P., Banerjee, T., Sengupta, R., Dong, S., Aghdashi, B. Elefteriadou, L and Ranka, S. "An automated system for operational evaluation of signalized intersections: A case study on the impact of COVID-19 pandemic on traffic patterns". PANAM Conference, Lima, Peru 2021.

Jeghers, M., Classen, S., Manjunatha, P., & Elefteriadou, L.. "An Examination of Two Diverse Communities: Residents' Transportation Behaviors, Challenges, and Opportunities". Manuscript in consideration at the Journal of Transport and Health September 2021.

Manjunatha, P., Duan, X., Ankomah, A., Elefteriadou, L., Srinivasan, S., Ponnaluri, R. "Evaluation of Adaptive Signal Control Technologies in Florida" In: Proceedings of the 98th Transportation Research Board Annual Meeting. Washington D.C., 2020

Manjunatha, P., Kummetha, V., Kondyli, A., Elefteriadou, L. "Validating the Task-Capability Extension to the Intelligent Driver Model (IDM) Using Driving Simulator Data" In: Proceedings of the 98th Transportation Research Board Annual Meeting. Washington D.C., 2019

Manjunatha, P., Elefteriadou, L. "A Framework For Incorporating Human Factors In Microsimulation Using Driving Simulator Observations" In: Proceedings of the 98th Transportation Research Board Annual Meeting. Washington D.C., 2019

Manjunatha, P., Elefteriadou, L. "Analysis of Wiedemann Car Following Thresholds Using Driving Simulator Observations", In: Proceedings of the 97th Transportation Research Board Annual Meeting. Washington D.C., 2018

Manjunatha, P., Kondyli, A, Elefteriadou, L. "How Has Driver Behavior Been Considered in Traffic Microsimulation and How Can We Use Cognitive Sciences and Psychology Studies to Enhance Them?", In: Proceedings of the 96th Transportation Research Board Annual Meeting. Washington D.C., 2017

Zheng, Y., Manjunatha, P., Elefteriadou, L, Ponnuluri, R. "Empirical Assessment of Adaptive Signal Control Technologies in Florida", In: Proceedings of the 96th Transportation Research Board Annual Meeting. Washington D.C., 2017

Manjunatha, P., Mathew, T.V., Vortisch, P. "Methodology for the Calibration of VISSIM in Mixed Traffic", In: Proceedings of the 92nd Transportation Research Board Annual Meeting. D.C., 2013

Research Reports

Manjunatha, P. Agarwal, N. et al. "Evaluation of CARMA for I-STREET Testbed Implementation" Project BDV32-977-115, FDOT, 2022.

Elefteriadou, L., Manjunatha, P. et al. "Transportation Mobility Assessment and Recommendations for Smart City Planning" Project BDV32-977-115, FDOT, 2021. https://rosap.ntl.bts.gov/view/dot/63304

Banerjee, T., Manjunatha, P. et al. "Data Analytics and Evaluation of the Gainesville Trapezium Connected Vehicle Signal Phasing and Timing (SPaT) Deployment Project" Project BDV31-977-117, FDOT, 2021. https://rosap.ntl.bts.gov/view/dot/62708

Classen, S., Mason, J., Manjunatha, P. et al. "Develop, Refine, and Validate A Survey to Assess Adult's Perspectives of Autonomous Ride-Sharing Services for Human Factors and Traffic Operational Observations" Project BDV31-977-128, FDOT, 2021.

https://rosap.ntl.bts.gov/view/dot/61849

Manjunatha, P., Elefteriadou, P., et al. "Evaluation of Advanced Vehicle and Communication Technologies through Traffic Microsimulation", STRIDE Project D, 2021. https://rosap.ntl.bts.gov/view/dot/57280

Elefteriadou, L., Manjunatha, P. et al. "Before and After-Implementation Studies of Advanced Signal Control Technologies in Florida", Project BDV32-977-05, FDOT, 2019. https://rosap.ntl.bts.gov/view/dot/65581

Elefteriadou, L., Manjunatha, P. et al. "Evaluation of Arterial Corridor Improvements and Traffic Management Plans in Florida", Project BDV31-977-44, FDOT, 2019. https://rosap.ntl.bts.gov/view/dot/50017

Elefteriadou, L., Manjunatha, P., Srinivasan, S., Agarwal, N., Semensky, S., "Public Acceptance of Autonomous Vehicle (AV) Technology", UFTI, 2019.

Srinivasan, S., Rogers, J., Manjunatha, P., Maldonado, P., & Yarney, A. "Development of Support Systems, Instructional Modules, and a Case Study for the Enhanced Driving Simulator at the Gator Tech Smart House", STRIDE, 2017. https://rosap.ntl.bts.gov/view/dot/37166

Invited Talks and Presentations

- Presenter/Panelist, "Automated Vehicle Testbeds and Weather Applications", Lectern Session 3023, Transportation Research Board (TRB) Annual Meeting, January 2024.

- Presenter, Emerging Technologies in Transportation: Challenges and Lessons Learnt from the I-STREET living lab/testbed in Florida, Indian Institute of Sciences (IISc), December 2023.

- Guest Lecturer, "CGN6905-Fundamentals of Transportation Profession", University of Florida, November 2023.

- Presenter, "Workshop on Development of CAV Education Materials for Graduate and Undergraduate Civil Engineering Students", Auburn, AL, September 2023.

- Co-host, "Florida Plugfest" – A comprehensive CV2X technology testing event at Suntrax test facilities, Auburndale, FL, May 2023.

- Presenter, "Lessons Learnt from Emerging Transportation Technology deployments at I-STREET Living Lab", First Coast ITE District, North Florida Transportation Planning Organization (NFTPO), Jacksonville, FL, February 2023.

- Guest Lecturer, "CGN4905- Careers in Transportation", University of Florida, October 2022.

- Presenter, "I-STREET Living Lab and Autonomous Shuttles", TRB ARTS Conference, Anaheim, CA, July 2022.

- Panelist, Florida ITE student leadership summit, Tallahassee, FL, February 2022

- Presiding Committee Member for ACH 50, Lectern Session 1393- Field and In-the loop studies

of Driver Behaviors, TRB Annual Conference, Washington D.C., January 2022

- Presenter, "I-STREET: Implementing Solutions from Transportation Research and Evaluation of Emerging Technologies", webinar at NCCAV Center, North Carolina. November 2021

- Panelist, Research to Practice Transit Symposium, Florida. October 2021.

- Presenter, "Findings from Autonomous Shuttle Demonstrations and Challenges Ahead", webinar at STRIDE Center, US Department of Transportation. October 2021.

- Organizer/Host at the CoMotion Miami Mobility Challenge, powered by I-STREET. (The main event for this conference was headlined by USDOT Secretary Pete Buttigieg) June 2021.

- Presenter, "Evaluation of the Operational Effects of Autonomous and Connected Vehicles through Microsimulation", Transportation Research Board CAV Workshop November 2020.

- Presenter, "Autonomous and Connected Vehicle Operational Performance Evaluation Using PTV-VISSIM" PTV User Group Meeting November 2020.

- Presenter, "I-STREET: Implementing Solutions from Transportation Research and Evaluation of Emerging Technologies", webinar at STRIDE Center, US Department of Transportation. September 2020

- Presenter, "Evaluation of the Operational Effects of Connected and Autonomous Vehicles (CAVs) through Microsimulation", webinar at STRIDE Center, US Department of Transportation. September 2020

- Panelist, "STRIDE Stakeholder Engagement Webinar", webinar at STRIDE Center, US Department of Transportation. August 2020

- Panelist, "Advancing Safety and Mobility Using Emerging Technologies", Florida Automated Vehicles (FAV) Summit, Miami. (The main event for this conference was headlined by FL state senator Jeff Brandes) November 2019.

Professional and Educational Activities

- Member, NCHRP Panel, Human Factors Research in Transportation (2023-24)

- Member, FHWA Cooperative Driving Automation (CDA) Road User Technical Working Group (Since 2023)

- Member/Reviewer, ACH 50 (Previously AND30)- Simulation and Measurement of Vehicle and Operator Performance, Transportation Research Board (Since 2019)

- Review Editor, Journal- "Frontiers in Future Transportation" (Since 2022)

- Advisor, IEEE-ITSS Student chapter at UF (Since 2022)

- Reviewer, ACH30-Standing Committee on Human Factors of Vehicles (Since 2022)

- Mentor, University of Florida Cricket Team (Since 2019)

- Mentor, College Reach-Out Program (CROP), Florida Department of Education (Since 2021)

- Mentor, Summer Undergraduate Research at Florida (SURF) Program (2019-2022)

- Member/Reviewer, Simulation Subcommittee, Transportation Research Board (Since 2016)

- Member, World Conference on Transportation Research Society (WCTRS) (Since 2019)

- Reviewer, ADD30 - Transportation and Land Development, Transportation Research Board

- Reviewer, National Institute for Transportation & Communities (NITC) (Since 2020)

- Reviewer, The Pacific Northwest Transportation Consortium, UTC for Region 10 (Since 2020)

- Institute of Transportation Engineers' UF Student Chapter. Treasurer (2014), Secretary (2015)

Media Coverage

- The American Association of State Highway and Transportation Officials (AASHTO) Journal Website - Florida DOT Sponsoring Pedestrian Research Project (November 2022), available at https://aashtojournal.org/2022/09/02/florida-dot_sponsoring-pedestrian-safety-research-project/

- Traffic Technology Today (tti News) - Florida DOT Collaborating with University on Next-Gen Pedestrian Detection (September 2022), available at https://www.traffictechnologytoday.com/news/vulnerable-road-users/florida-dot_collaborating-with-university-on-next-gen-pedestrian-detection.html

- WCJB-TV News - UF Researchers Install Sensors to Study Pedestrian Safety Tech (August 2022), available at https://www.wcjb.com/2022/08/31/uf-researchers-install_sensors-study-pedestrian-safety-tech/

- CBS4 you - Pedestrian Deaths Could Be Prevented with new Technology Being Tested at UF (August 2022), available at https://mycbs4.com/news/local/pedestrian-deaths_could-be-prevented-with-new-technology-being-tested-at-uf

- NPR-WUFT News - Gainesville's Autonomous Shuttle Incorporates New Technology (April 2022), available at https://www.wuft.org/news/2022/04/14/gainesvilles_autonomous-shuttle-incorporates-new-technology/

- The Gainesville Sun - Lessons Learned from Gainesville's Experiment with Driverless Buses (March 2022).

- CBS4 you News in You Tube - UF Traffic Project Uses Technology to Improve Safety, Gainesville's Traffic Tuesday's Segment on the Gainesville Trapezium Project. (May 2021) https://www.youtube.com/watch?v=cox5j3x4Zdk

- Civil Conversations Podcast - Episode 1: Transportation with Dr. Pruthvi Manjunatha (August 2018) https://www.listennotes.com/podcasts/civil-conversations/episode-1-transportation-zGQ3Jm0qocM/

Students Mentored

- Mohammedreza Mirzaei [PhD, 2027]
- Mohaddese Salehian Khaled Abady [PhD, 2027]
- Orestis Karamouzis [PhD, 2026]
- Victoria Zorbas [PhD, 2026]
- Bryce Grame [PhD, 2025]
- Renan Favero [PhD, 2025]
- Myra Monreal [PhD, 2025]
- Aditi Dubey [BS, 2024]
- Luan Carvalho [PhD, 2023]
- Agustin Guerra [PhD, 2023]
- Rahul Sengupta [PhD, 2023]
- Leonida Kibet [MS, 2023]
- Mary Jeghers [PhD, 2022]
- Erik Huang [BS, 2022]
- John Lin [BS, 2022]
- Alexander Foote [BS, 2022]
- Sophia Semensky [BS, 2021]
- Savanna Stockton [BS, 2021]
- Xi Duan [MS, 2020]
- Mohammed Saifuddin [MS, 2020]
- Zachary Jerome [BS, 2020]
- Hope Sotolongo-Miranda [BS, 2020]
- Matthew Knight [BS, 2019]
- Matthew Dean [BS, 2019]
- Tyler Hartley [BS, 2019]