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Education

Ph.D. in Civil Engineering, University of Colorado Denver May 2018
Secondary Concentration in Mathematical and Statistical Sciences

M.A. in Geography & Planning, West Chester University December 2013
Graduate Certificates in GIS and Urban and Regional Planning

B.A. in Engineering Studies, Lafayette College December 2009
Minor in Environmental Science

Academic Experience

University of New Mexico

Associate Professor June 2024-Present
Co-Director: New Mexico Transportation Center March 2024-Present
UTC Director: USDOT Center for Pedestrian and Bicyclist Safety February 2023-Present
Assistant Professor August 2018-June 2024

University of Colorado Denver

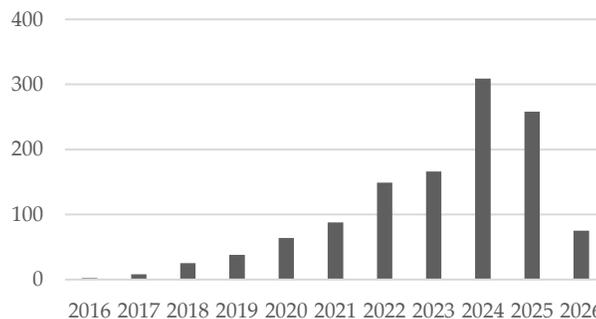
Research Assistant September 2014-August 2018
Adjunct Professor January 2015-May 2015

West Chester University

Adjunct Professor January 2018-May 2018

Refereed Journal Publications (underline indicates that author is/was my student; * indicates funded)

	All	Since 2021
Citations	1,207	1,043
h-index	21	20
i10-index	30	29



*From Google Scholar
Updated 3/19/2026*

- 2026 1. M.G. Abadi, **Nicholas N. Ferenchak**, and D. Maas. Pedestrian Response to Leading Pedestrian Intervals: The Role of Visual and Audible Cues in Start-Up Time and Walking Speed. *Journal of Transportation Engineering, Part A: Systems*.
2. **Nicholas N. Ferenchak** and W.E. Marshall. Beyond Low-Stress Bike Lanes: Assessing the Role of Bicycle Network Density in Ridership. *Transportation Research Record*.
3. **Nicholas N. Ferenchak**, O.S. Rodriguez*, L.L. Losada-Rojas, R.J. Schneider, and X. Gu. (2026). Longitudinal Socioeconomic and Built Environment Shifts in US Bicyclist Fatality Locations 2001-2020. *Journal of Cycling and Micromobility Research*.
4. **Nicholas N. Ferenchak** and O.S. Rodriguez*. (2026). Land Use, Roadway, and Socioeconomic Correlates of Non-Motorized Road User Safety: Differentiating Pedestrian and Bicyclist Risk. *Journal of Transport Geography*.
5. L.L. Losada-Rojas, Y.T. Chaves Lasso*, **Nicholas N. Ferenchak**, and Y. Lin. (2026). Statistical And Spatial Analysis of Pedestrian and Bicyclist Crashes on Arterials Roads. *Papers in Applied Geography*.
- 2025 6. **Nicholas N. Ferenchak** and L.L. Losada-Rojas. (2025). Longitudinal Emergency Detection/Response Times and Communication Advances for Fatal Rural/Urban Motor Vehicle Collisions. *International Journal of Emergency Services*.
7. Y.T. Chaves Lasso*, W. Simon, S. Sheets, **Nicholas N. Ferenchak**, and L.L. Losada-Rojas. (2025). Evaluating the Impact of Access Management Practices on Urban Arterial Crashes. *Transportation Research Interdisciplinary Perspectives*, 34: 101660.
8. **Nicholas N. Ferenchak** and W.E. Marshall. (2025). The Link Between Low-Stress Bicycle Facilities and Bicycle Commuting. *Nature Cities*.
- 2024 9. **Nicholas N. Ferenchak**, B.N. Janson, and W.E. Marshall. (2024). Estimating Lives Saved and Serious Injuries Reduced by Bicycle Helmet Use in Colorado, 2006-2014. *International Journal of Injury Control and Safety Promotion*, 32(1): 40-51.
10. **Nicholas N. Ferenchak** and B.A. Woods*. (2024). Changes in Crash Types and Contributing Factors After Bus Rapid Transit (BRT) Infrastructure Installation in Albuquerque, New Mexico. *Multimodal Transportation*, 4(1): 100192.
11. K. Habib, L.L. Losada-Rojas, and **Nicholas N. Ferenchak**. (2024). Review of the Impacts of Human Factors on Cycling: Workload, Behavior, and Perception. *Transportation Research Record: Journal of the Transportation Research Board*, 2678(11): 979-993.
12. A.R. Joshi*, **Nicholas N. Ferenchak**, and L.L. Losada-Rojas. (2024). Bus Rapid Transit as Arterial Corridor Traffic Calming: The Relationship Between Transit Infrastructure and Vehicle Operating Speeds. *Traffic Injury Prevention*, 25(8): 1098-1106.
13. **Nicholas N. Ferenchak**, R.B. Osofsky, W. Simon, J. White, T. Reed, R. Clark, J. Paul, S. West, and R. Miskimins. (2024). Database integration identifies the effects of signalized street crossings on pedestrian injury. *Journal of Surgical Research*, 296: 281-290.

14. **Nicholas N. Ferenchak** and W.E. Marshall. (2024). Traffic Safety for All Road Users: A Paired Comparison Study of Small & Mid-Sized U.S. Cities with High/Low Bicycling Rates. *Journal of Cycling and Micromobility Research*, 2: 100010.
15. **Nicholas N. Ferenchak** and A.J. Barney. (2024). Analyzing Access to Parks and Other Green Spaces on Walking, Biking, and Driving Networks Through a Socioeconomic Lens. *Local Environment*, 29(5): 663-679.
- 2023 16. **Nicholas N. Ferenchak**. (2023). U.S. Road Safety During COVID-19: Motorist, Pedestrian, and Bicyclist Fatality Trends. *International Journal of Disaster Resilience in the Built Environment*, 16(2): 193-208.
17. O. Sanchez Rodriguez* and **Nicholas N. Ferenchak**. (2023). Longitudinal Spatial Trends in U.S. Pedestrian Fatalities, 1999-2020. *Transportation Research Record: Journal of the Transportation Research Board*, 2678(5): 904-916.
18. **Nicholas N. Ferenchak**. (2023). Impacts of COVID-19 on motor vehicle crash frequency and severity by functional classification and land use context. *Transactions on Transport Sciences*, 14(3): 32-37.
19. **Nicholas N. Ferenchak**. (2023). Longitudinal Bicyclist, Driver, and Pedestrian Perceptions of Autonomous Vehicle Communication Strategies. *Journal of Traffic and Transportation Engineering*, 10(1): 31-44.
- 2022 20. **Nicholas N. Ferenchak**. (2022). U.S. Vision Zero Cities: Modal Fatality Trends and Strategy Effectiveness. *Transportation Letters: The International Journal of Transportation Research*, 15(8): 957-968.
21. **Nicholas N. Ferenchak**, R.E. Gutierrez*, and P.A. Singleton. (2022). Shedding Light on the Pedestrian Safety Crisis: An Analysis Across the Injury Severity Spectrum by Lighting Condition. *Traffic Injury Prevention*, 23(7): 434-439.
22. E. Bia* and **Nicholas N. Ferenchak**. (2022). The Impact of Bus Rapid Transit Construction and Infrastructure on Traffic Safety: A Case Study from Albuquerque, New Mexico. *Transportation Research Record: Journal of the Transportation Research Board*, 2676(9): 110-119.
23. **Nicholas N. Ferenchak** and R.B. Osofsky. (2022). Police-Reported Pedestrian Collision Crash Matching and Injury Severity Misclassification by Body Region in New Mexico, USA. *Accident Analysis and Prevention*, 167: 106573.
24. **Nicholas N. Ferenchak** and S. Shafique*. (2022). Pedestrians' Perceptions of Autonomous Vehicle External Human-Machine Interfaces. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*, 8(3): 034501.
25. **Nicholas N. Ferenchak**. (2022). Residential Development Patterns and Child Pedestrian Injury Rates. *Journal of Transportation Safety & Security*, 14(1): 67-82.
- 2021 26. **Nicholas N. Ferenchak** and W.E. Marshall. (2021). Bicycling Facility Inequalities and the Causality Dilemma with Socioeconomic/Sociodemographic Change. *Transportation Research Part D: Transport and Environment*, 97: 102920.

27. **Nicholas N. Ferenchak** and M.G. Abadi. (2021). Nighttime Pedestrian Fatalities: A Comprehensive Examination of Infrastructure, User, Vehicle, and Situational Factors. *Journal of Safety Research*, 79: 14-25.
28. **B. Long*** and **Nicholas N. Ferenchak**. (2021). Spatial Equity Analysis of Nighttime Pedestrian Safety: The Role of Land Use and Alcohol Establishments in Albuquerque, NM. *Transportation Research Record: Journal of the Transportation Research Board*, 2675(12): 622-634.
- 2020 29. **Nicholas N. Ferenchak** and W.E. Marshall. (2020). Is Bicycling Getting Safer? Bicycle Fatality Rates (1985-2017) Using Four Exposure Metrics. *Transportation Research Interdisciplinary Perspectives*, 8: 100219.
30. **M.C. Cruz*** and **Nicholas N. Ferenchak**. (2020). Emergency Response Times for Fatal Motor Vehicle Crashes, 1975-2017. *Transportation Research Record: Journal of the Transportation Research Board*, 2674(8): 504-510.
31. **Nicholas N. Ferenchak** and W.E. Marshall. (2020). Quantifying Suppressed Child Pedestrian and Bicycle Trips. *Travel Behaviour and Society*, 20: 91-103.
32. **Nicholas N. Ferenchak** and W.E. Marshall. (2020). Validation of Bicycle Level of Traffic Stress (LTS) and Perceived Safety for Children. *Transportation Research Record: Journal of the Transportation Research Board*, 2674(4): 397-406.
- 2019 33. **Nicholas N. Ferenchak** and W.E. Marshall. (2019). Suppressed Child Pedestrian and Bicycle Trips as an Indicator of Safety: Adopting a Proactive Safety Approach in Denver, Colorado. *Transportation Research Part A: Policy and Practice*, 124: 128-144.
34. W.E. Marshall and **Nicholas N. Ferenchak**. (2019). Why are Bike-Friendly Cities Safer for All Road Users? *Journal of Transport & Health*, 13: 285-301.
35. **Nicholas N. Ferenchak** and W.E. Marshall. (2019). An Equity Analysis of Proactively- Vs. Reactively-Identified Traffic Safety Issues. *Transportation Research Record: Journal of the Transportation Research Board*, 2673(7): 596-606.
36. **Nicholas N. Ferenchak** and W.E. Marshall. (2019). Advancing Healthy Cities Through Safer Cycling: An Examination of Shared Lane Markings. *International Journal of Transportation Science and Technology*, 8(2): 136-145.
- 2018 37. **Nicholas N. Ferenchak** and W.E. Marshall. (2018). Spontaneous Order of Pedestrian and Vehicle Intersection Conflicts in the Indian Context. *Transportation Research Part F: Traffic Psychology and Behaviour*, 55: 451-463.
- 2017 38. **Nicholas N. Ferenchak** and M. Katirai. (2017). Pedestrian Crossing Behavior in Relation to Grouping and Gender in a Developing Country Context. *Journal of Global Epidemiology and Environmental Health*, 1: 37-45.
39. W.E. Marshall and **Nicholas N. Ferenchak**. (2017). Assessing Equity and Urban/Rural Road Safety Disparities in the US. *Journal of Urbanism*, 10(4): 422-441.

40. **Nicholas N. Ferenchak** and W.E. Marshall. (2017). Redefining the Child Pedestrian Safety Paradigm: Identifying High Fatality Concentrations in Urban Areas. *Injury Prevention*, 23: 364-369.
- 2016 41. **Nicholas N. Ferenchak**. (2016). Pedestrian Age and Gender in Relation to Crossing Behavior at Midblock Crossings in India. *Journal of Traffic and Transportation Engineering*, 4(3): 345-351.
- 2015 42. **Nicholas N. Ferenchak** and M. Katirai. (2015). Commute Mode and Mental Health in Major Metropolitan Areas. *Transportation Letters: The International Journal of Transportation Research*, 7(2): 92-103.

Research Reports

- 2025 1. **Nicholas N. Ferenchak** and A.M. Lucaci*. (2025). *NMDOT Pedestrian Outreach Program*. Center for Pedestrian and Bicyclist Safety, University Transportation Centers Program, University of New Mexico, 24UNM02.
- 2024 2. S. Zhang, T.A. Eshelman, L.L. Sinclair, and **Nicholas N. Ferenchak**. (2024). *Enhancing Collaboration through Web-Based Visualization and Analysis of Traffic Crash Data*. Center for Pedestrian and Bicyclist Safety, University Transportation Centers Program, University of New Mexico, 23UNM03.
3. **Nicholas N. Ferenchak**. (2024). *Countermeasures to Improve Pedestrian Safety on Arterials*. New Mexico Department of Transportation. R922070.
4. **Nicholas N. Ferenchak**. (2024). *NMDOT Pedestrian Safety on Arterials*. Center for Pedestrian and Bicyclist Safety, University Transportation Centers Program, University of New Mexico, 23UNM01.
5. **Nicholas N. Ferenchak**. (2024). *Pedestrian vs. Bicyclist Fatality Patterns of Geographic/Demographic Shift*. Center for Pedestrian and Bicyclist Safety, University Transportation Centers Program, University of New Mexico, 23UNM02.
- 2023 6. **Nicholas N. Ferenchak**. (2023). *Countermeasures to Improve Pedestrian Safety on Arterials*. Transportation Consortium of South-Central States, University Transportation Centers Program, Louisiana State University, 22SAUNM18.
- 2022 7. **Nicholas N. Ferenchak**. (2022). *COVID-19 and Traffic Safety: Exploring Exposure, Crash Frequency and Severity, and Roadway and Network Design*. Transportation Consortium of South-Central States, University Transportation Centers Program, Louisiana State University, 21SAUNM02.
- 2021 8. **Nicholas N. Ferenchak**. (2021). *Autonomous Vehicle Communication Strategies Modeled in Virtual Reality*. Transportation Consortium of South-Central States, University Transportation Centers Program, Louisiana State University, 20ITSUNM03.
- 2020 9. **Nicholas N. Ferenchak** and G. Rowangould. (2020). *ABQ Streets Project: Creating Alternative Residential Street Designs*. Transportation Consortium of South-Central States, University Transportation Centers Program, Louisiana State University, 19PPUNM01.

10. **Nicholas N. Ferenczak**. (2020). *Enhancing Evaluation of Wildlife Detection Systems*. Transportation Consortium of South-Central States, University Transportation Centers Program, Louisiana State University, 19SAUNM03.
- 2019 11. **Nicholas N. Ferenczak**, W.E. Marshall, and B. Janson. (2019). *Redefining the Child Pedestrian Safety Paradigm*. Mountain Plains Consortium, University Transportation Centers Program, North Dakota State University, MPC-515.
12. **Nicholas N. Ferenczak**, W.E. Marshall, and B. Janson. (2019). *Reassessing Child Pedestrian Mode Choice & Safety via Perceived Parental Risk*. Mountain Plains Consortium, University Transportation Centers Program, North Dakota State University, MPC-557.

Publications

1. **Nicholas N. Ferenczak**. (2025). Book Review for Urban Bikeway Design Guide: Third Edition. *Journal of Planning Education and Research*.
2. **Nicholas N. Ferenczak**. (2018). A Call for Proactive Road Design. *Vision Zero Cities: International Journal of Traffic Safety Innovation*, ed. 3.
3. Transportation Alternatives Data Exchange. (2014). *Transportation Alternatives and Transportation Enhancements 2013 Spending Report*. Washington, DC: Federal Highway Administration.

Unpublished Research (underline indicates that author is/was my student; * indicates funded)

Invited for Revision

1. **Nicholas N. Ferenczak** and W.E. Marshall. What Drives Urban Transportation Safety? *Journal of Transport and Sustainability*.
2. **Nicholas N. Ferenczak**, O. Tafoya*, S. Parajuli, and C. Cherry. Longitudinal Pedestrian Safety Trends for Passenger Cars, Pickup Trucks, and SUVs: A 2016-2022 Study of Texas. *Journal of Safety Research*.
3. A.R. Joshi* and **Nicholas N. Ferenczak**. Development of User Personas for Transit Riders: Results from the Albuquerque Rapid Transit System. *Case Studies on Transport Policy*.
4. A. Sheykhfard* and **Nicholas N. Ferenczak**. Beyond Enforcement Policies for Reducing Speeding Among Young E-Scooter Riders. *Transport Policy*.
5. A. Aryal*, T. Han, J.J. Rawson*, K. Habib, **Nicholas N. Ferenczak**, and L.L. Losada-Rojas. Pulse of the Pedal: ECG-Based Assessment of Stress in Urban Bicycling. *Transportation Research Record*.
6. S. Parajuli, C. Cherry, and **Nicholas N. Ferenczak**. Quantifying the Threat of Bigger and Heavier Vehicles in US Pedestrian Crashes. *Accident Analysis & Prevention*.

Under Peer Review

7. A. Sheykhfard*, S. Das, S. Saeidi, M.M. Oshanreh, B. Kutela, **Nicholas N. Ferenchak**, F. Nourilarimi, and T. Lei. Adapting Vision Zero for Improving Pedestrian Safety in Developing Countries: Strategies and Priorities for Urban Roads. *IATSS*.
8. A.R. Joshi*, **Nicholas N. Ferenchak**, and A. Sheykhfard*. Fare-Free Public Transit and Post-Pandemic Bus Ridership Resilience: A Case Study of Boston, MA, USA. *Urban, Planning and Transport Research*.
9. R.J. Schneider, X. Gu, K. Nelson, **Nicholas N. Ferenchak**, and X. Qin. Neighborhood-Level Shifts in Fatal and Severe Pedestrian Crashes: 2008-2012 vs. 2017-2021. *Journal of Transport and Sustainability*.
10. A. Sheykhfard* and **Nicholas N. Ferenchak**. Exploring the Role of Built Environment and Regional Context in Promoting Bicycle Commuting: A Neighborhood-Level Analysis in the United States. *Cities*.
11. **Nicholas N. Ferenchak** and A. Sheykhfard*. Safety Urban Design Features and Environmental Predictors of Traffic Noise Levels and Vehicle Speeds on Arterial Roads. *Transportation Research Interdisciplinary Perspectives*.
12. **Nicholas N. Ferenchak**, B.A. Woods*, D. Kittrell*, and A. Sheykhfard*. Evaluating Pedestrian Route Choice and Delay at Pedestrian Hybrid Beacons (PHBs) on an Arterial Corridor. *Travel Behaviour and Society*.
13. S. Montaña, **Nicholas N. Ferenchak**, and A. Sheykhfard*. Rest-in-Red Traffic Signal Operation and Speed Management. *Journal of Intelligent Transportation Systems*.
14. A. Sheykhfard*, M. Azmoodeh, **Nicholas N. Ferenchak**, S. Das, M. Jalayer, and J.P. Ehsani. Understanding Drivers', Cyclists', and Pedestrians' Acceptance Factors of External Human-Machine Interface (eHMI) Designs for Autonomous Vehicles: Evidence from the United States. *Travel Behaviour and Society*.
15. A. Sheykhfard*, D. Stavrinou, P. Delhomme, S.A. Useche, and **Nicholas N. Ferenchak**. Naturalistic Assessment of Experiential Driver Education Interventions for Young Drivers. *IATSS*.
16. **Nicholas N. Ferenchak**, A. Sheykhfard, F. Hedayatibaei, and D. Lord. Differential Effects of Poly-Drug Exposure on Severe Injury Risk Among Drivers, Motorcyclists, and Bicyclists. *Journal of Safety Research*.
17. J.J. Rawson*, K. Habib, A. Aryal*, T. Han, **Nicholas N. Ferenchak**, and L.L. Losada-Rojas. Eyes on the Road: Disentangling Cyclist Mental Workload at Intersections. *Journal of Safety Research*.
18. **Nicholas N. Ferenchak**, W.E. Marshall, M. Mitman, and R.J. Schneider. Rethinking Traffic Safety: The Case for Reducing Kinetic Energy Exposure, Not Just Speed. *Injury Prevention*.

Drafted and Under Internal Review

19. A.M. Lucaci* and **Nicholas N. Ferenchak**. Enhancing Public Engagement for Active Transportation Safety Planning.
20. A. Sheykhfard*, **Nicholas N. Ferenchak**, and C. Cherry. Crash Context and Device Type in Electric Micromobility Injuries in the United States: A National Study of Severity and Injury Patterns.
21. M. Salehian, **Nicholas N. Ferenchak**, A. Sheykhfard*, A.W. Agrawal, and H. Nixon. Understanding Public Attitudes Toward Transportation Tax Spending in the United States.

Conference Presentations (underline indicates that author is/was my student; * indicates funded)

- 2026 1. A. Sheykhfard* and **Nicholas N. Ferenchak**. (April 2026). Evaluating Pedestrian Route Choice and Delay at Pedestrian Hybrid Beacons (PHBs) on an Arterial Corridor. LECTERN. *AAA Safe Mobility Conference*: Seattle, WA.
2. A.M. Lucaci* and **Nicholas N. Ferenchak**. (January 2026). Enhancing Public Engagement for Active Transportation Safety Planning. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
3. R.J. Schneider, X. Gu, K. Nelson, **Nicholas N. Ferenchak**, and X. Qin. (January 2026). Neighborhood-Level Shifts in Fatal and Severe Pedestrian Crashes: 2008-2012 vs. 2017-2021. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
4. A. Aryal*, T. Han, J.J. Rawson*, K. Habib, **Nicholas N. Ferenchak**, and L.L. Losada-Rojas. (January 2026). Pulse of the Pedal: ECG-Based Assessment of Stress in Urban Bicycling. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
5. A. Sheykhfard*, D. Stavrinou, P. Delhomme, S.A. Useche, and **Nicholas N. Ferenchak**. (January 2026). Naturalistic Assessment of Experiential Driver Education Interventions for Young Drivers. LECTERN. *Transportation Research Board Annual Meeting*: Washington, DC.
6. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2026). Beyond Low-Stress Bike Lanes: Assessing the Role of Bicycle Network Density in Ridership. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
7. A.R. Joshi*, **Nicholas N. Ferenchak**, and A. Sheykhfard*. (January 2026). Fare-Free Public Transit and Post-Pandemic Bus Ridership Resilience: A Case Study of Boston. LECTERN. *Transportation Research Board Annual Meeting*: Washington, DC.
- 2025 8. A.M. Lucaci* and **Nicholas N. Ferenchak**. (September 2025). Best Practices in Pedestrian Outreach in Transportation Planning. Workshop. *New Mexico Transportation Safety Summit*: Albuquerque, NM.
9. **Nicholas N. Ferenchak**. (September 2025). Design Recommendations for Urban NMDOT Roadways. Workshop. *New Mexico Transportation Safety Summit*: Albuquerque, NM.

10. A.M. Lucaci* and **Nicholas N. Ferenchak**. (August 2025). Best Practices for Pedestrian Outreach in Transportation Planning. Lectern. *Colorado Traffic Safety Summit*: Breckenridge, CO.
11. **Nicholas N. Ferenchak**. (June 2025). The State of Pedestrian and Bicyclist Safety. Plenary. *ITE Mountain District Annual Meeting*: Santa Fe, NM.
12. L. Arnold, C. Cherry, **Nicholas N. Ferenchak**, D. Littlefield, K. Luecke, R. Schneider, and B. Tefft. (April 2025). Improving Pedestrian Safety on Urban Arterial Roads: Understanding the Problem and Identifying Solutions. Workshop. *AAA Safe Mobility Conference*: Madison, WI.
13. Y.T. Chaves Lasso*, W. Simon, S. Sheets, **Nicholas N. Ferenchak**, and L.L. Losada-Rojas. (January 2025). Impact of Access Management on Arterial Road Crashes: A Case Study of Albuquerque, New Mexico. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
14. **Nicholas N. Ferenchak** and O. Tafoya*. (January 2025). Pedestrian Safety and Vehicle Design: Longitudinally Examining Changes in SUV and Pickup Truck Front-End Height. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
15. M.G. Abadi, J. Nguyen, **Nicholas N. Ferenchak**, and D. Maas. (January 2025). Is a 3-Second Leading Pedestrian Interval Effective? Exploring the Influence of Signal Configurations and Audio Cues on Pedestrian Behavior. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
- 2024 16. J.J. Rawson*, L.L. Losada-Rojas, K. Habib, and **Nicholas N. Ferenchak**. (July 2024). Understanding Naturalistic Cyclist Stress & Mental Workload: A Human Factors Analysis. Poster. *TRB Conference on Advancing Transportation Equity*: Baltimore, MD.
17. A.R. Joshi* and **Nicholas N. Ferenchak**. (July 2024). Equitable Access to Transit: A Case Study of Fare-Free Bus Routes in Boston. Poster. *TRB Conference on Advancing Transportation Equity*: Baltimore, MD.
18. A.R. Joshi* and **Nicholas N. Ferenchak**. (July 2024). Unveiling Transit Decisions: Exploring the Influence of User Personas on Mode Choice and Equity in Public Transportation. Poster. *TRB Conference on Advancing Transportation Equity*: Baltimore, MD.
19. Y. Chaves, L.L. Losada-Rojas, and **Nicholas N. Ferenchak**. (June 2024). Exploring the Role of Arterial Road Characteristics on Pedestrian and Bicyclist Crashes. Poster. *ASCE International Conference on Transportation and Development*: Atlanta, GA.
20. O. Tafoya* and **Nicholas N. Ferenchak**. (January 2024). Pedestrian Safety and Vehicle Design: Are SUVs and Pickup Trucks to Blame? Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
21. K. Habib, L.L. Losada-Rojas, and **Nicholas N. Ferenchak**. (January 2024). A Review of the Impacts of Human Factors on Cycling: Workload, Behavior, and Perception. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.

22. **Nicholas N. Ferenchak.** (January 2024). Someone Call 911! The Impact of Communication Advances on Emergency Notification and Response Times for Fatal Rural/Urban Motor Vehicle Collisions. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
23. **Nicholas N. Ferenchak.** (January 2024). Traffic Safety in New Mexico. Lectern. *New Mexico Paving & Transportation Conference*: Albuquerque, NM.
- 2023 24. O. Sanchez Rodriguez* and **Nicholas N. Ferenchak.** (January 2023). Longitudinal Spatial Trends in U.S. Pedestrian Fatalities, 1999-2020. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
25. A.J. Barney and **Nicholas N. Ferenchak.** (January 2023). Analyzing Access to Parks and Other Green Spaces on Walking, Biking, and Driving Networks Through a Socioeconomic Lens. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
26. **Nicholas N. Ferenchak.** (January 2023). Automated Vehicle Noise Enforcement: Opportunities and Challenges. Lectern. *New Mexico Paving & Transportation Conference*: Albuquerque, NM.
- 2022 27. **Nicholas N. Ferenchak.** (October 2022). Next Steps for Making your Community More Walkable. Lectern. *American Planning Association – New Mexico Chapter Annual Meeting*: Albuquerque, NM.
28. E. Bia* and **Nicholas N. Ferenchak.** (January 2022). The Impact of Bus Rapid Transit on Traffic Safety: A Case Study from Albuquerque, New Mexico. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
29. **Nicholas N. Ferenchak,** B. Janson, and W.E. Marshall. (January 2022). Adapting a Bicycle-Specific Helmet Effectiveness Factor (HEF) from the Motorcyclist Literature. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
- 2021 30. **Nicholas N. Ferenchak** and W.E. Marshall. (November 2021). Why Cities with High Bicycling Rates are Safer for All Road Users: An Analysis of Mid-Size Cities. Lectern. *International Cycling Safety Conference*: Lund, Sweden.
31. **Nicholas N. Ferenchak** and W.E. Marshall. (November 2021). Is Bicycling Getting Safer? Bicycle Fatality Rates (1985-2017) Using Four Exposure Metrics. Lectern. *International Cycling Safety Conference*: Lund, Sweden.
32. **Nicholas N. Ferenchak** and S. Shafique*. (August 2021). Pedestrians' Perceptions of Autonomous Vehicle External Human-Machine Interfaces. Lectern. *Bridging Transportation Researchers Conference*: Remote.
33. **Nicholas N. Ferenchak** and W.E. Marshall. (August 2021). Why Cities with High Bicycling Rates are Safer for All Road Users: An Analysis of Mid-Size Cities. Lectern. *World Symposium on Transport and Land Use Research*: Portland, OR.
34. **Nicholas N. Ferenchak** and S. Shafique*. (June 2021). Autonomous Vehicle Communication Strategies Modeled in Virtual Reality: Perceptions and Behaviors of

- Pedestrians and Human Drivers in Relation to External Human-Machine Interfaces. Lectern. *Tran-SET Conference*: Jonesboro, AR.
35. **Nicholas N. Ferenchak** and **S. Shafique***. (January 2021). Pedestrians' Perceptions of Autonomous Vehicle External Human-Machine Interfaces. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
 36. **B. Long*** and **Nicholas N. Ferenchak**. (January 2021). Spatial Equity Analysis of Nighttime Pedestrian Safety: The Role of Land Use and Alcohol Establishments. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
 37. **Nicholas N. Ferenchak**, **R.E. Gutierrez***, and P.A. Singleton. (January 2021). The Role of Lighting Condition Across the Pedestrian Injury Severity Spectrum. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
 38. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2021). The (In)Equitable Distribution of Bicycling Facilities & the Causality Dilemma with Socioeconomic Change. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
 39. **M.C. Cruz*** and **Nicholas N. Ferenchak**. (January 2021). Public Art and Transportation. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
 - 2020 40. **Nicholas N. Ferenchak**. (September 2020). Autonomous Vehicle Communication Strategies Modeled in Virtual Reality. Lectern. *Tran-SET Conference*: Albuquerque, NM.
 41. **Nicholas N. Ferenchak** and D. Hadwiger. (September 2020). Enhancing Evaluation of Wildlife Detection Systems. Lectern. *Tran-SET Conference*: Albuquerque, NM.
 42. **Nicholas N. Ferenchak** and G. Rowangould. (September 2020). ABQ Streets Project: Creating Alternative Residential Street Designs. Lectern. *Tran-SET Conference*: Albuquerque, NM.
 43. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2020). Implementing Vision Zero: A Proactive Methodology for Building Communities for Kids. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
 44. **M.C. Cruz*** and **Nicholas N. Ferenchak**. (January 2020). Emergency Response Times for Fatal Motor Vehicle Crashes, 1975-2017. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
 45. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2020). Is Bicycling Getting Safer for Adults? Age-Specific Bicycle Fatality Rates from Four Exposure Metrics, 1985-2017. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
 46. **T. Moe*** and **Nicholas N. Ferenchak**. (January 2020). Proactively Analyzing Nighttime Pedestrian Fatalities. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
 47. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2020). Validation of Bicycle Level of Traffic Stress (LTS) and Perceived Safety: A Study of Children in Denver. Lectern. *Transportation Research Board Annual Meeting*: Washington, DC.

48. **Nicholas N. Ferenchak** and J. Hirsch. (January 2020). Enhancing Evaluation of Wildlife Detection Systems. Lectern. *New Mexico Paving & Transportation Conference*: Albuquerque, NM.
- 2019 49. **Nicholas N. Ferenchak** and S. Shafique*. (August 2019). Impact of Autonomous Vehicle-to-Pedestrian Communication on Safety Perceptions and Behavior. Poster. *Association of Pedestrian & Bike Professionals' Seminar*: Portland, OR.
50. **Nicholas N. Ferenchak**. (August 2019). Adopting Proactive Indicators of Pedestrian and Bicyclist Safety. Lectern. *Association of Pedestrian & Bike Professionals' Seminar*: Portland, OR.
51. **Nicholas N. Ferenchak** and W.E. Marshall. (June 2019). Implementing Vision Zero: Cities for Kids. Lectern. *Congress for the New Urbanism (Invited)*: Louisville, KY.
52. **Nicholas N. Ferenchak**. (April 2019). Impact of Autonomous Vehicle-to-Pedestrian Communication on Safety Perceptions and Behavior. Lectern. *Lifesavers National Conference on Highway Safety (Invited)*: Louisville, KY.
53. **Nicholas N. Ferenchak**. (January 2019). An Equity Analysis of Proactively- vs. Reactively-Identified Traffic Safety Issues. Lectern. *Transportation Research Board Annual Meeting*: Washington, DC.
54. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2019). Adopting Proactive Indicators of Traffic Safety. Lectern. *New Mexico Paving & Transportation Conference*: Albuquerque, NM.
- 2018 55. **Nicholas N. Ferenchak**. (October 2018). Suppressed Child Pedestrian Trips as an Indicator of Safety: Adopting a Proactive Safety Approach in Denver. Lectern. *Walk21 Conference (Invited)*: Bogotá, Colombia.
56. **Nicholas N. Ferenchak**. (October 2018). Suppressed Bicycling Trips: A Proactive Safety Analysis of Children Biking to School. Lectern. *International Cycling Safety Conference (Invited)*: Barcelona, Spain.
57. **Nicholas N. Ferenchak** and W.E. Marshall. (September 2018). So Unsafe, It Seems Safe: Proactively Assessing Bicycle and Pedestrian Safety via Perceived Risk. Poster. *Walk Bike Places*: New Orleans, LA.
58. **Nicholas N. Ferenchak** and W.E. Marshall. (May 2018). Exploring Neglected Safety Equity Issues. Lectern. *Congress for the New Urbanism*: Savannah, GA.
59. **Nicholas N. Ferenchak**. (April 2018). Does a Lack of Casualties Mean That You Are Safe? Using Parental Perceptions and Mode Choice to Explore Child Pedestrian and Bicyclist Safety to School. Lectern. *Lifesavers National Conference on Highway Safety (Invited)*: San Antonio, TX.
60. **Nicholas N. Ferenchak**. (February 2018). Parental Perceptions and Mode Choice to Explore Child Pedestrian & Bicyclist Safety. Poster. *Active Living Research Conference*: Banff, Alberta, Canada.

61. **Nicholas N. Ferenchak** and W.E. Marshall. (February 2018). The Relative (In)effectiveness of Bicycle Sharrows on Safety Outcomes. Poster. *Active Living Research Conference*: Banff, Alberta, Canada.
62. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2018). Age-Specific Bicycling Safety Trends, 1985-2015. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
63. K. Nordback, S. Kothuri, B. Lan, G. Gibson, **Nicholas N. Ferenchak**, and W.E. Marshall. (January 2018). Bicyclist Safety Performance Functions for Road Segments in a U.S. City. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
64. **Nicholas N. Ferenchak** and M. Katirai. (January 2018). Pedestrian Crossing Behavior in Relation to Grouping and Gender in a Developing Country Context. Lectern. *Transportation Research Board Annual Meeting*: Washington, DC.
65. **Nicholas N. Ferenchak**. (January 2018). Suppressed Child Pedestrian and Bicycle Trips as an Indicator of Safety: Adopting a Proactive Safety Approach in Denver. Lectern. *Transportation Research Board Annual Meeting*: Washington, DC.
- 2017 66. **Nicholas N. Ferenchak** and W.E. Marshall. (September 2017). The Relative (In)Effectiveness of Bicycle Sharrows on Safety Outcomes. Lectern. *International Cycling Safety Conference*: Davis, CA.
67. **Nicholas N. Ferenchak**. (September 2017). Redefining Safe Streets Through a New Child Pedestrian Demand/Exposure Model. Lectern. *Walk21 Conference*: Calgary, Alberta, Canada.
68. **Nicholas N. Ferenchak**. (September 2017). Are Our Cities Making Our Roads Unsafe? The Impact of Land Use Configurations on Child Pedestrian Injuries. Poster. *Walk21 Conference*: Calgary, Alberta, Canada.
69. **Nicholas N. Ferenchak**. (September 2017). So Unsafe, It Seems Safe: Improving Child Pedestrian Safety Analyses with Latent Demand. Poster. *National Walking Summit*: St. Paul, MN.
70. **Nicholas N. Ferenchak**. (August 2017). So Unsafe, It Seems Safe: Reassessing Safety via Perceived Risk. Poster. *ITE Annual Meeting (Invited)*: Toronto, Ontario, Canada.
71. **Nicholas N. Ferenchak**. (April 2017). Are Our Cities Making Our Roads Unsafe? The Impact of Land Use Configurations on Child Pedestrian Crashes. Poster. *Transportation Research Forum*: Chicago, IL.
72. G. Gibson, K. Nordback, S. Kothuri, **Nicholas N. Ferenchak**, and W.E. Marshall. (January 2017). Motorist-Cyclists Crash Data Needs in U.S. Communities. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
- 2016 73. **Nicholas N. Ferenchak** and W.E. Marshall. (December 2016). Redefining the Child Pedestrian Safety Paradigm: Identifying High-Fatality Concentrations Around Parks. Lectern. *University Transportation Center Spotlight Conference*: Washington, DC.

74. **Nicholas N. Ferenchak** and W.E. Marshall. (December 2016). Relative (In)effectiveness of Bicycle Sharrows on Ridership and Safety Outcomes. Lectern. *University Transportation Center Spotlight Conference*: Washington, DC.
75. **Nicholas N. Ferenchak** and W.E. Marshall. (December 2016). Motorist–Cyclist Crash Data Needs in U.S. Communities. Lectern. *University Transportation Center Spotlight Conference*: Washington, DC.
76. B. Janson, W.E. Marshall, and **Nicholas N. Ferenchak**. (December 2016). Estimating Lives Saved and Injuries Reduced by Bicycle Helmet Use in Denver. Poster. *University Transportation Center Spotlight Conference*: Washington, DC.
77. **Nicholas N. Ferenchak** and W.E. Marshall. (September 2016). Redefining the Child Pedestrian Safety Paradigm: Identifying High Fatality Concentrations in Urban Areas. Lectern. *Pro Walk/Pro Bike/Pro Place*: Vancouver, British Columbia, Canada.
78. **Nicholas N. Ferenchak** and W.E. Marshall. (September 2016). The Relative (In)Effectiveness Of Bicycle Sharrows On Safety Outcomes. Lectern. *Pro Walk/Pro Bike/Pro Place*: Vancouver, British Columbia, Canada.
79. **Nicholas N. Ferenchak** and W.E. Marshall. (February 2016). Redefining the Child Pedestrian Safety Paradigm: Identifying High Fatality Concentrations Around Parks. Poster. *Active Living Research Conference*: Clearwater Beach, FL.
80. **Nicholas N. Ferenchak** and W.E. Marshall. (February 2016). The Relative (In)Effectiveness of Bicycle Sharrows on Ridership and Safety Outcomes. Poster. *Active Living Research Conference*: Clearwater Beach, FL.
81. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2016). Relative (In)Effectiveness of Bicycle Sharrows on Ridership and Safety Outcomes. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
82. **Nicholas N. Ferenchak** and M. Katirai. (January 2016). Understanding Pedestrians' Proclivity for Risk: Case Study of Bangalore, India. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
- 2015 83. **Nicholas N. Ferenchak**. (September 2015). Child Pedestrian Safety: Examining Opportunities for Improvements around Parks. Poster. *Association of Pedestrian & Bike Professionals' Seminar*: St. Louis, MO.
84. **Nicholas N. Ferenchak** and W.E. Marshall. (July 2015). Spontaneous Order of Pedestrian and Vehicle Interactions in Shared Spaces. Lectern. *ITE Western District Meeting*: Las Vegas, NV.
85. **Nicholas N. Ferenchak** and M. Katirai. (July 2015). Commute Mode and Mental Health in Major Metropolitan Areas. Lectern. *ITE Western District Meeting*: Las Vegas, NV.
86. W.E. Marshall and **Nicholas N. Ferenchak**. (May 2015). The American Story of Inequitable Road Safety Outcomes. Lectern. *Congress for the New Urbanism*: Dallas, TX.

87. **Nicholas N. Ferenchak.** (April 2015). Locating and Addressing our Child Pedestrian Fatalities within Denver. Poster. *Spring Transportation Symposium*: Denver, CO.
88. **Nicholas N. Ferenchak.** (January 2015). Motorized Two-Wheelers in Indian Cities: Case Study of Pune. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
- 2014 89. A. Mahendra, R. Chanchani, and **Nicholas N. Ferenchak.** (September 2014). Motorized Two-Wheelers in Indian Cities: A Boon, a Bane, or Both? Webinar. *World Resources Institute Webinar Series*: Bangalore, India.
- 2013 90. **Nicholas N. Ferenchak** and M. Katirai. (October 2013). Commute Mode and Mental Health in Major Metropolitan Areas. LECTERN. *Pennsylvania Geographical Society Annual Meeting*: Pittsburgh, PA.
91. **Nicholas N. Ferenchak.** (July 2013). Transportation Alternatives Certificate of Excellence. LECTERN. *Transportation Alternatives Professional Seminar*: Greenville, SC.

Academic Honors

Association of Pedestrian & Bicycle Professionals – Researcher of the Year Award	July 2025
UNM Grand Challenges – Level 1: Safer Streets	April 2025
UNM CCEE - Fall 2024 Best Paper Award	November 2024
UNM CCEE - Stamm Award for Outstanding Research	May 2024
UNM School of Engineering - Early Career Research Excellence Award	April 2024
Albuquerque 40 Under 40 Honoree	March 2024
UNM Ovation Award for Research & Scholarship	September 2023
UNM CCEE - Stamm Award for Outstanding Research	May 2023
USDOT Sec. Pete Buttigieg and US Sens. Heinrich and Lujan Roundtable	April 2023
ITE Mountain District Outstanding Transportation Educator Award	June 2021
UNM School of Engineering - Junior Faculty Teaching Excellence Award	April 2020
Lee Schipper Memorial Scholarship Honorable Mention	August 2018
German Academic Exchange Service Scholarship Selection	April 2018
Eisenhower Best Presentation Award at Transportation Research Board	January 2018
FHWA Eisenhower Graduate Transportation Fellow	December 2017
Eno Future Leaders Development Conference Fellow (<i>Tom Larson Fellow</i>)	June 2017
National Walking Summit Scholarship	April 2017
CO/WY ITE Leadership Scholarship	December 2015
FHWA Eisenhower Graduate Transportation Fellow	July 2015
Association of Pedestrian & Bicycle Professionals' Seminar Paper Award	July 2015
ITE Western District Student Paper Award	May 2015
Congress for the New Urbanism Scholarship	March 2015
CO/WY ITE Graduate Scholarship	December 2014

Funding Secured

(Total project funding = \$27,786,362; Share I manage = \$15,622,971; My research = \$5,505,971)

Safer Streets (co-PI; PI: Lisa L. Losada-Rojas, University of New Mexico)

UNM Grand Challenges – Level 1: \$8,000

August 2025-June 2026

ACCEL-RT: Autonomous Cargo Carriers for Enhanced Logistics in Rural & Tribal Areas
(SME; PI: Scott Moura, University of California Berkeley)
US DOT: \$10,000,000 (\$1,800,000 UNM share; \$24,176 my share) February 2025-February 2031

NMDOT Pedestrian Outreach Program – 24UNM02 (PI)
CPBS & NMDOT: \$173,908 June 2024-May 2025

Bicycle Level of Traffic Stress at Intersections – 24UNM01 (PI)
CPBS: \$292,938 June 2024-May 2025

Pedestrian vs. Bicyclist Fatality Patterns of Geographic/Demographic Shift – 23UNM02 (PI)
CPBS: \$129,888 June 2023-May 2024

NMDOT Pedestrian Safety on Arterials – 23UNM01 (PI)
CPBS & NMDOT: \$120,000 June 2023-May 2024

FHWA Eisenhower Transportation Fellowship – UNM Local Competition (PI)
US DOT: \$25,500 August 2024-July 2025

Center for Pedestrian and Bicyclist Safety (CPBS) (Center Director)
US DOT: \$10,000,000 + \$5,000,000 non-federal (\$4,950,000 UNM share) June 2023-May 2028

NCHRP 07-31: DOT & Tribal Active Transport Data: Practices, Sources, and Gaps (co-PI; PI:
Jennifer Dill, Portland State University)
NCHRP: \$800,000 (\$46,780 UNM share) April 2023-October 2025

NCHRP 17-115: Guide for Marked Crosswalk Design, Spacing, Placement, and Safety (SME;
PI: Sarah Worth O'Brien, University of North Carolina)
NCHRP: \$500,000 (\$13,573 UNM share) April 2023-April 2026

Countermeasures to Improve Pedestrian Safety on Arterials (PI)
Tran-SET UTC & NMDOT: \$115,000 April 2022-September 2023

Pedestrian Infrastructure & ADA Compliance: Leveraging Spatial Technology (co-PI; PI:
Wesley Marshall, University of Colorado Denver)
Mountain-Plains Consortium UTC: \$257,822 (\$20,000 UNM share) January 2022-June 2023

COVID-19 and Traffic Safety: Role of Infrastructure and Exposure (PI)
Tran-SET UTC: \$50,000 August 2021-December 2022

NCHRP 17-97: Strategies to Improve Pedestrian Safety at Night (SME; PI: Kristof Devastey,
Toole Design)
NCHRP: \$500,000 (\$6,142 UNM share) June 2021-June 2024

The (In)Equitable Distribution of Quality Bicycling Infrastructure (Co-PI; PI: Wesley Marshall,
University of Colorado Denver)
TriDurLE UTC: \$50,000 (\$20,000 UNM share) June 2021-May 2022

Enhancing National Rail Safety: Modeling Grade Crossing Treatments in Virtual Reality (PI)
Federal Railroad Administration: \$100,000 September 2020-May 2022

Autonomous Vehicle Communication Strategies Modeled in Virtual Reality (PI)
Tran-SET UTC: \$60,000 August 2020-February 2022

Autonomous Vehicle Communication Strategies Modeled in Virtual Reality (PI)
Research Allocations Committee: \$1,300 November 2019-April 2021

ABQ Streets Project: Creating Alternative Residential Street Designs (co-PI; PI: Greg Rowangould, University of New Mexico)
Tran-SET UTC: \$50,000 August 2019-February 2021

Enhancing Evaluation of Wildlife Detection Systems (PI)
Tran-SET UTC: \$40,000 August 2019-February 2021

Balloon Fiesta Transportation Analysis and Planning Assistance (Co-PI; PI: Claude Morelli, University of New Mexico)
Albuquerque International Balloon Fiesta: \$64,500 January 2019-August 2019

Dwight D. Eisenhower Transportation Fellowship (PI)
FHWA: \$11,500 December 2017-December 2018

Pedestrian Safety: Latent Demand & Exposure Modeling (Author & Researcher)
Mountain-Plains Consortium UTC (#557): \$75,000 December 2017-March 2019

Redefining the Child Pedestrian Safety Paradigm (Author & Researcher)
Mountain-Plains Consortium UTC (#515): \$67,740 August 2016-September 2018

Dwight D. Eisenhower Transportation Fellowship (PI)
FHWA: \$35,500 July 2015-July 2016

Leadership Positions

Safety Findings
Editorial Advisory Board March 2025-Present

TRB Bicycle Transportation Committee (ACH20)
Committee Member April 2021-June 2025

TRB Pedestrian Committee (ACH10)
Chair August 2025-Present
Committee Member March 2020-Present
Committee Research Coordinator March 2018-June 2025
Paper Review Coordinator August 2020-June 2025

Council of University Transportation Centers (CUTC)
UNM Representative June 2023-Present

Institute of Transportation Engineers
Student Chapter: Faculty Advisor May 2019-February 2026

NMDOT Pedestrian Safety Task Force
Member November 2022-February 2025

TRB Transportation-Related Noise and Vibration Committee (AEP80) <i>Committee Volunteer</i>	October 2022-October 2024
MRCOG Regional Transportation Safety Action Plan <i>Technical Team</i>	July 2023-August 2024
Albuquerque Bikeways and Trail Facilities Master Plan <i>Stakeholder Advisory Committee</i>	January 2023-January 2024
ABQ RIDE Forward Network Plan <i>Stakeholder Advisory Committee</i>	September 2022-December 2023
TRB Bicycle and Pedestrian Data Subcommittee (ACP70-3) <i>Communications Manager</i>	June 2017-June 2022
BikeABQ <i>Board Member at Large</i>	January 2022-April 2022
Congress for the New Urbanism <i>Research Paper Call Lead</i>	October 2017-November 2020
Young Professionals in Transportation <i>International Board: Director of Programs</i>	October 2016-October 2018
Institute of Transportation Engineers <i>Student Chapter: Vice President</i>	December 2014-March 2016
Women's Transportation Seminar <i>Student Chapter: Vice President</i>	January 2015-March 2016

Research Panel Service

TRB Commercializing Technology for Safe Transportation Workshop	Oct. 2024-Jan. 2025
BTSCR-09: Influence of Infrastructure Design on Distracted Driving	Sept. 2018-Apr. 2022

Courses Taught

1. Transportation Engineering (CE 382) Instructor's Overall Effectiveness: 4.68/5.00 Comfort Approaching Instructor: 4.86/5.00	Fall 2025
2. Surveying and Geomatics (CE 283) Instructor's Overall Effectiveness: 4.50/5.00 Comfort Approaching Instructor: 4.69/5.00	Spring 2025
3. Transportation Engineering (CE 382) Instructor's Overall Effectiveness: 4.73/5.00 Comfort Approaching Instructor: 4.73/5.00	Fall 2023

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| 4. Study Abroad: Transportation Systems in the Netherlands (CE 491/598) | Summer 2023 |
| Instructor's Overall Effectiveness: 4.93/5.00 | |
| Comfort Approaching Instructor: 5.00/5.00 | |
| 5. Urban Transportation Planning (CE 481/581) | Spring 2023 |
| Instructor's Overall Effectiveness: 4.70/5.00 | |
| Comfort Approaching Instructor: 4.90/5.00 | |
| 6. Surveying and Geomatics (CE 283) | Spring 2022 |
| Instructor's Overall Effectiveness: 4.75/5.00 | |
| Comfort Approaching Instructor: 4.63/5.00 | |
| 7. Transportation Engineering (CE 382) | Fall 2021 |
| Instructor's Overall Effectiveness: 4.94/5.00 | |
| Comfort Approaching Instructor: 4.94/5.00 | |
| 8. Urban Transportation Planning (CE 481/581) | Fall 2021 |
| Instructor's Overall Effectiveness: 5.00/5.00 | |
| Comfort Approaching Instructor: 4.91/5.00 | |
| 9. Surveying and Geomatics (CE 283) | Spring 2021 |
| Instructor's Overall Effectiveness: 4.82/5.00 | |
| Comfort Approaching Instructor: 5.00/5.00 | |
| 10. Transportation Engineering (CE 382) | Fall 2020 |
| Instructor's Overall Effectiveness: 4.76/5.00 | |
| Comfort Approaching Instructor: 4.88/5.00 | |
| 11. Transportation Safety (CE 491/598) | Spring 2020 |
| Instructor's Overall Effectiveness: 4.64/5.00 | |
| Comfort Approaching Instructor: 4.72/5.00 | |
| 12. Transportation Engineering (CE 382) | Fall 2019 |
| Instructor's Overall Effectiveness: 4.94/5.00 | |
| Comfort Approaching Instructor: 4.94/5.00 | |
| 13. Transportation Safety (CE 491/598) | Spring 2019 |
| Instructor's Overall Effectiveness: 5.00/5.00 | |
| Comfort Approaching Instructor: 5.00/5.00 | |
| 14. Highway & Traffic Engineering (CE 482/582) | Fall 2018 |
| Instructor's Overall Effectiveness: 3.67/5.00 | |
| Comfort Approaching Instructor: 4.33/5.00 | |

Academic Presentations

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| Guest Lecture: TRSP 889 (Transport & Urban Inf.): <i>Morgan State University</i> | March 27, 2026 |
| Guest Lecture: CRP 543 (Transport Planning): <i>University of New Mexico</i> | February 24, 2026 |
| Lightning Lounge: Safer Streets for VRUs: <i>University of New Mexico</i> | April 17, 2025 |
| Guest Lecture: CEE 6240 (Urban Transport Planning): <i>Utah State University</i> | April 11, 2024 |

Guest Lecture: ENGR 108 (CEE Seminar): <i>Utah State University</i>	April 11, 2024
Guest Lecture: CRP 543 (Transport Planning): <i>University of New Mexico</i>	April 13, 2023
Guest Lecture: CE 160 (Civil Eng. Design): <i>University of New Mexico</i>	March 23, 2023
Guest Lecture: CE 160 (Civil Eng. Design): <i>University of New Mexico</i>	November 1, 2022
Guest Lecture: CE 160 (Civil Eng. Design): <i>University of New Mexico</i>	March 24, 2022
Guest Lecture: CE 160 (Civil Eng. Design): <i>University of New Mexico</i>	September 28, 2021
Guest Lecture: CE 691 (Graduate Seminar): <i>University of New Mexico</i>	September 1, 2021
Guest Lecture: CRP 543 (Transport Planning): <i>University of New Mexico</i>	April 27, 2021
Guest Lecture: CE 691 (Graduate Seminar): <i>University of New Mexico</i>	February 10, 2021
Guest Lecture: CE 160 (Civil Eng. Design): <i>University of New Mexico</i>	February 2, 2021
Guest Lecture: CE 691 (Graduate Seminar): <i>University of New Mexico</i>	September 9, 2020
Guest Lecture: CRP 543 (Transport Planning): <i>University of New Mexico</i>	November 20, 2019
Guest Lecture: CE 691 (Graduate Seminar): <i>University of New Mexico</i>	November 20, 2019
Guest Lecture: CRP 543 (Transport Planning): <i>University of New Mexico</i>	November 20, 2018
Guest Lecture: CE 691 (Graduate Seminar): <i>University of New Mexico</i>	September 12, 2018
Guest Lecture: PLN 320 (Land Use Planning): <i>West Chester University</i>	October 4, 2017

Webinar/Podcast Presentations

Stop Requested Podcast: <i>ETA Transit</i>	February 5, 2026
Innovation for Quieter, Safer NM Communities: <i>Living Under NM Skies</i>	February 4, 2026
Spatial/Temporal Shifts in Pedestrian Serious Injuries & Fatalities: <i>CPBS</i>	September 17, 2025
Innovative Approaches in Teaching Transportation Engineering: <i>ITE</i>	March 18, 2025
Vehicle Design and Pedestrian Safety: <i>CPBS</i>	February 5, 2025
University Transportation Centers 101: <i>APBP</i>	December 18, 2024
Pedestrian and Bicycle Level of Traffic Stress: <i>CPBS</i>	November 13, 2024
It's (Probably) Not Rocket Science' Podcast: <i>UNM</i>	November 5, 2024
AV Communication Strategies Modeled in VR: <i>TranSET</i>	September 16, 2021
So Unsafe, It Seems Safe: Reassessing Safety via Perceived Risk: <i>ITE</i>	July 10, 2018

Students Advised – Faculty Advisor

	Graduated	In Progress	Dropped Out
PhD	1	2	2
MS	7	1	1
BS	5	1	0

PhD Students

1. Ben Garland: PhD Civil Engineering. Anticipated Graduation May 2029.
2. Ana Lucaci: PhD Civil Engineering. Anticipated Graduation May 2028.
3. Ashish Joshi: PhD Civil Engineering. *Identifying Barriers to Bus Utilization Through a Multi-Layered Approach: Exploring Accessibility, Comfort, Safety, Security, and Fare Policy*. Graduated May 2025. Currently a faculty member at Clemson University.

4. Sheheryar Shafique: PhD Civil Engineering. *Usability of External Human-Machine Interfaces in Autonomous Vehicle-Human Road User Interactions*. Dropped Out in December 2021 [had passed comprehensive exam, was PhD candidate, and had published 1 paper. Had family health issues associated with COVID and was unable to continue with his PhD].
5. Fausto A.R. Bravo: PhD Civil Engineering. *Can Planning Improve Transportation in Ecuador? Comparison to Transportation Planning in The United States*. Dropped Out in December 2021 [had passed comprehensive exam and was a PhD candidate. Support was discontinued by government of Ecuador during COVID].

MS Students

6. Benson Long: MS Civil Engineering. Anticipated Graduation May 2026.
7. James Rawson: MS Civil Engineering. Graduated May 2025.
8. Olivia Tafoya: MS Civil Engineering. *Longitudinal Pedestrian Safety Trends by Vehicle Type and Model: A 2015-2022 Study of Texas*. Graduated December 2024.
9. Ossiris Sanchez Rodriguez: MS Civil Engineering. *Longitudinal Spatial Trends in U.S. Pedestrian and Bicyclist Fatalities*. Graduated with Distinction in May 2024.
10. Martina Mercure: MS Civil Engineering. *The Relationship Between Bus Rapid Transit and Traffic Safety*. Graduated May 2023.
11. Maria C. Cruz: MS Civil Engineering. *The Impact of Murals on Traffic Safety: A Behavior and Crash Analysis*. Graduated December 2022.
12. Max H. Dowis: MS Civil Engineering. Dropped Out in December 2021.
13. Amir Tarighi: MS Civil Engineering. *Nighttime Pedestrian Fatalities Across the United States and Their Relationship with Built Environment and Socioeconomic Factors: GIS-Based Analysis and Assessment*. Graduated May 2021.
14. Risa E. Gutierrez: MS Civil Engineering. *Evaluating Public Transit Accessibility in Albuquerque, New Mexico: A Fixed-Route Bus Service Analysis*. Graduated December 2020.

BS Students (each has published a peer-reviewed research paper)

15. Brady A. Woods: BS Civil Engineering. *Crash Types and Contributing Factors on Bus Rapid Transit (BRT) Infrastructure in Albuquerque, New Mexico*. Anticipated Graduation May 2026.
16. Olivia Tafoya: BS Civil Engineering, TRB Minority Student Fellowship. *Pedestrian Safety and Vehicle Design: Are SUVs and Pickup Trucks to Blame?* Graduated December 2023.
17. Ossiris Sanchez Rodriguez: BS Civil Engineering, TRB Minority Student Fellowship. *Longitudinal Spatial Trends in U.S. Pedestrian Fatalities, 1999-2020*. Graduated May 2023.
18. Esther Bia: BS Civil Engineering, TRB Minority Student Fellowship. *The Impact of Bus Rapid Transit Construction and Infrastructure on Traffic Safety: A Case Study from Albuquerque, New Mexico*. Graduated December 2022.

19. Benson Long: BS Civil Engineering, TRB Minority Student Fellowship. *Spatial Equity Analysis of Nighttime Pedestrian Safety: The Role of Land Use and Alcohol Establishments in Albuquerque, NM*. Graduated December 2021.
20. Maria C. Cruz: BS Civil Engineering, TRB Minority Student Fellowship. *Emergency Response Times for Fatal Motor Vehicle Crashes, 1975-2017*. Graduated May 2021.

Students Advised – Dissertation/Thesis Committee

1. Callie Thomason French: PhD Civil Engineering. Anticipated Spring 2027. Principal Advisor: Dr. Susan Bogus Halter, CCEE, University of New Mexico.
2. Grant Rudnick: MS Civil Engineering. *How Location Relates to Bicyclist Stress: A Built Environment and Health Outcomes Analysis*. Anticipated Fall 2026. Principal Advisor: Dr. Lisa Losada-Rojas, CCEE, University of New Mexico.
3. Rachel MacCleery: PhD in Public Health. Anticipated Graduation Spring 2026. Principal Advisor: Dr. Yuka Asada, School of Public Health, University of Illinois Chicago.
4. Jennifer Lopez: Masters of Community and Regional Planning (MCRP). Anticipated Graduation May 2026. Principal Advisor: Dr. Moises Gonzales, School of Architecture + Planning, University of New Mexico.
5. Ankit Aryal: MS Civil Engineering. Anticipated Graduation May 2025. Principal Advisor: Dr. Lisa L. Losada-Rojas, CCEE, University of New Mexico.
6. Adrianna Fragozo: MS Civil Engineering. Anticipated Graduation May 2025. Principal Advisor: Dr. Lisa L. Losada-Rojas, CCEE, University of New Mexico.
7. Kristal Metro: PhD Civil Engineering. *Workforce Resiliency for Construction Careers in State Departments of Transportation*. Graduated May 2026. Principal Advisor: Dr. Susan Bogus Halter, CCEE, University of New Mexico.
8. Yully Chaves Lasso: MS Civil Engineering. *Understanding the Relationship Between Arterial Road Features and Vulnerable Road Users, A Case Study of Albuquerque, New Mexico*. Graduated July 2024. Principal Advisor: Dr. Lisa L. Losada-Rojas, CCEE, University of New Mexico.
9. Gena Robertson: MS Civil Engineering. *Field Evaluation of E-ticketing Technologies for Efficient Asphalt Delivery Ticket Collection and Quantity Calculation*. Graduated August 2023. Principal Advisor: Dr. Susan Bogus Halter, CCEE, University of New Mexico.
10. Abiral Dulal: MS Civil Engineering. *Exploring the Relationship Between Traffic Operations and Vehicles Emissions at An Isolated Signalized Intersection*. Graduated May 2021. Principal Advisor: Dr. Haobing Liu, CCEE, University of New Mexico.
11. Alexis Corning-Padilla: MS Civil Engineering. *Evaluating Sustainable & Equitable Financing for Pedestrian Infrastructure Maintenance and How the Quality of Pedestrian Infrastructure Affects the Choice to Walk*. Graduated August 2019. Principal Advisor: Dr. Greg Rowangould, CCEE, University of New Mexico.

12. Razieh Nadafianshahamabadi: PhD Civil Engineering. *Long-Range Transportation Plan Efficacy in the Creation of Sustainable Regional Transportation Systems*. Graduated May 2019. Principal Advisor: Dr. Greg Rowangould, CCEE, University of New Mexico.
13. Julia L. Seymour: MS Civil Engineering. *Evaluating Transportation Project Forecasts and Travel Demand Model Inaccuracies*. Graduated May 2019. Principal Advisor: Dr. Greg Rowangould, CCEE, University of New Mexico.

Student Awards

Ana Lucaci: UTC Outstanding Student of the Year	January 2026
Elijah Borowsky: Roy Sekreta Scholarship	August 2025
Ana Lucaci: Roy Sekreta Scholarship	August 2025
Benson Long: Martha J. and William Benton Scholarship	August 2025
Dimitri Kittrell: ASCE Doc Harrington Junior Award	August 2025
Grant Rudnick: ASCE NM Outstanding Senior Award	August 2025
Brady Woods: Udall Undergraduate Scholarship – Runner Up	May 2025
Benson Long: Eisenhower Transportation Fellowship	November 2024
Dimitri Kittrell: Dr. Jerry Hall Memorial Scholarship	September 2024
Ashish Joshi: American Public Transportation Foundation Scholarship	August 2024
Brea Jarrell: Dr. Jerry Hall Memorial Scholarship	December 2023
Ossiris Sanchez Rodriguez: Eisenhower Transportation Fellowship	November 2023
Brea Jarell: Eisenhower Transportation Fellowship	November 2023
Olivia Tafoya: TRB Minority Student Fellowship	May 2023
Ossiris Sanchez Rodriguez: Eisenhower Transportation Fellowship	November 2022
Jennifer Restrepo: Eisenhower Transportation Fellowship	November 2022
Martina Mercure: Eisenhower Transportation Fellowship	November 2022
Ossiris Sanchez Rodriguez: TRB Minority Student Fellowship	May 2022
Maria C. Cruz: Eisenhower Transportation Fellowship	November 2021
Sheida Carugati: Eisenhower Transportation Fellowship	November 2021
Esther Bia: TRB Minority Student Fellowship	May 2021
Travis Moe: Dr. Jerry Hall Memorial Scholarship	December 2020
Maria C. Cruz: Eisenhower Transportation Fellowship	November 2020
Benson Long: TRB Minority Student Fellowship	May 2020
Travis Moe: Eisenhower Transportation Fellowship	November 2019
Risa Gutierrez: Eisenhower Transportation Fellowship	November 2019
Maria C. Cruz: TRB Minority Student Fellowship	May 2019

Workshop Participation

Active Transportation Research Workshop: <i>UC Davis</i>	October 24, 2025
Tribal Pedestrian Safety America Walks Workshop: <i>Pueblo of Jemez, NM</i>	April 29, 2025
National Science Foundation Day-New Mexico: <i>University of New Mexico</i>	August 29, 2018
Integrating Bike-Ped Topics into University Courses: <i>Portland State Uni.</i>	June 19-20, 2018

Books Citing Research

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2. B. Appleyard and D. Appleyard. (2020). *Livable Streets 2.0, 1st Edition*. Elsevier, Amsterdam, Netherlands.
3. J. Speck. (2018). *Walkable City Rules: 101 Steps to Making Better Places*. Island Press, Washington, DC.

Selected News & Press

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2. KOB. (February 2026). "Albuquerque wants zero traffic deaths by 2040— can it happen?" by Melissa Wright. <https://www.kob.com/new-mexico/albuquerque-metro/albuquerque-wants-zero-traffic-deaths-by-2040-can-it-happen/>
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Outreach Activities

Strong Towns ABQ: Pedestrian and Bicyclist Safety: Speaker	September 2025
ITE Student Leadership Summit: Faculty Advisor	June 2025
Center for Pedestrian and Bicyclist Safety - Webinar Series: Leader	May 2024-Present
Center for Pedestrian and Bicyclist Safety - Newsletter: Leader	May 2023-Present
New Mexico Summer Transportation Institute: Organizer	2019-Present
New Mexico Paving & Transportation Conference: Organizer	2019-Present
New Mexico Transportation Safety Summit: Organizer	May-August 2024
Urban Land Institute: Safe Streets for All – Pedestrian & Bike Safety: Speaker	October 2024
Story Riders Community Bike Group: Participant & Supporter	July 2024
NM LTAP Workshop on Pedestrian and Bicycle Safety: Leader	June 2024
Albuquerque Public Schools Vision Zero Seminar: Speaker	May 2024
New Mexico Crash Data Mapping Portal: Organizer	April 2024
MRCOG/NM LTAP Planning/Designing for Pedestrian Safety Workshop: Speaker	May 2023
Bridging Transportation Researchers Conference: Moderator	August 2021
Tran-SET UTC Conference: Organizer	August 2019-September 2020
Future City Competition (Middle School City Design Competition): Judge	January 2019

University Service

UNM CCEE Safety Committee: Member	2025-Present
UNM CCEE Scholarship Committee: Member	2025-Present
UNM School of Engineering Open House: Participant	2019-Present
Eisenhower Transportation Fellowship @ UNM: Leader & Faculty Advisor	2018-Present
TRB Minority Student Fellows Program: Organizer & Faculty Advisor	2018-2025
UNM CCEE Graduate Committee: Member	2018-2025
UNM Engineers Without Borders DOE Solar Decathlon: Advisor	October 2022-May 2023
Search Committee Member: Transportation Engineering	September 2021-May 2022
UNM Civil Engineering Open House: Organizer	October 2020
Search Committee Member: Transportation Engineering	September 2019-March 2020
Search Committee Member: Environmental Engineering	September 2019-March 2020
Search Committee Member: Structural Engineering	September 2019-March 2020
Search Committee Member: Construction Engineering	September 2019-March 2020

Journal Reviews

Accident Analysis & Prevention
Applied Geography
BMC Public Health
Findings
International Journal of Child Care and Education Policy
International Journal of Injury Control and Safety Promotion
International Journal of Sustainable Transportation

Journal of Cycling and Micromobility
Journal of Safety Research
Journal of the American Planning Association
Journal of Traffic and Transportation Engineering
Journal of Transport and Health
Journal of Transport and Land Use
Journal of Transport Geography
Journal of Transportation Safety & Security
Journal of Urban Mobility
Journal of Urban Planning and Development
Technological Forecasting & Social Change
Traffic Injury Prevention
Transport Policy
Transport Reviews
Transportation
Transportation Research Interdisciplinary Perspectives
Transportation Research Letters
Transportation Research Part A: Policy and Practice
Transportation Research Part F: Traffic Psychology and Behaviour
Transportation Research Record
Travel Behaviour and Society
Urban Design International
Urban, Planning and Transport Research

Patents

Nicholas N. Ferenchak. Patent #17328327: Self-Contained Autonomous Vehicle Noise Pollution Detection and Recording Device. (Granted January 2024).

Professional

Professional Certification

Professional Engineer (PE #25737)
State of New Mexico

August 2019

Engineer Intern (EI #5142)
State of Delaware

September 2016

Professional Experience

- Not-A-Loud LLC: *Albuquerque, NM* December 2019-Present
Founder of company developing and implementing automated vehicle noise enforcement systems.
- McMahon Associates: *Exton, PA* June 2016-June 2017
Produced innovative multimodal transportation solutions out of the Traffic Department as both a transportation engineer and transportation planner.
- World Resources Institute: *Bangalore, India* June 2014-September 2014
Defined key performance indicators for EMBARQ India to ensure that all populations have safe access to transportation facilities. Created a report on motorized two-wheelers in India.
- National Transportation Alternatives Clearinghouse: *Washington, DC* May 2013-July 2014
Provided bicycle and pedestrian guidance for the Transportation Alternatives Program.
- Jeppesen: *Englewood, CO* February 2014-June 2014
Created digital navigation tools in a GIS SDE environment.
- Chester County Planning Comm.: *West Chester, PA* April 2013-December 2013
Aided with a grant program, transit plan, and bicycle and pedestrian circulation plan.
- The Rails-to-Trails Conservancy: *Washington, DC* May 2013-August 2013
Created an objective measurement tool through GIS, dependent on measures of connectivity, which accounts for the benefits of trail systems.
- Valley Forge Transportation Management Assoc.: *Wayne, PA* October 2012-May 2013
Investigated a park and ride system for the Pennsylvania Department of Transportation.
- Lafarge: *Whitehall, PA* June 2010-August 2012
Analyzed chemical and physical properties of cements, raw materials, and fuels.

Professional Projects

East-West Trail: Plan & Conceptual Designs
East Whiteland Township Official Map: Functional Classification Recommendations
East Whiteland Township Transportation Impact Fee Study: Transportation Impact Analysis
Exeter Traffic Calming: Study & Alignment Recommendations
Malvern Multimodal Study: Inventory & Public Input
Paoli Pike Trail Master Plan: Public Input, Inventory, & Conceptual Designs
Twelve Multimodal Transportation Fund Grant Applications

Professional Honors

Marshall Planning Award - Chester County Association of Township Officials	March 2013
Planning Award Recognition - PA State Senator Andrew Dinniman	March 2013
Planning Award Recognition - PA State Representative Duane Milne	March 2013

Professional Grants Secured

(Successful grants I wrote with McMahon Associates for planning/design/construction of transportation projects)

Abington Complete Streets Plan	November 2017
<i>PA DCED Multimodal Transportation Fund</i>	\$1,000,000
New Garden Township Intersection Realignment	November 2017
<i>PA DCED Multimodal Transportation Fund</i>	\$600,000
Northampton Township Richboro Sidewalk Connections	November 2017
<i>PA DCED Multimodal Transportation Fund</i>	\$500,000
Towamencin Township SR 0063 Improvement Project	November 2017
<i>PA DCED Multimodal Transportation Fund</i>	\$825,000
Easttown Adaptive Traffic Signal System	June 2017
<i>PennDOT Automated Red Light Enforcement Grant</i>	\$553,329
Philmont Avenue SEPTA Parking Garage	February 2017
<i>PennDOT Multimodal Transportation Fund</i>	\$2,000,000

Professional Memberships

Institute of Transportation Engineers	August 2018-Present
<i>Mountain District: New Mexico Chapter</i>	