

## Nicholas N. Ferenchak, Ph.D., P.E.

Assistant Professor  
Department of Civil, Construction and Environmental Engineering  
University of New Mexico  
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### Education

Ph.D. in Civil Engineering, University of Colorado Denver May 2018  
Secondary Concentration: 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

UTC Director: USDOT Center for Pedestrian and Bicyclist Safety February 2023-Present  
Assistant Professor August 2018-Present

#### University of Colorado Denver

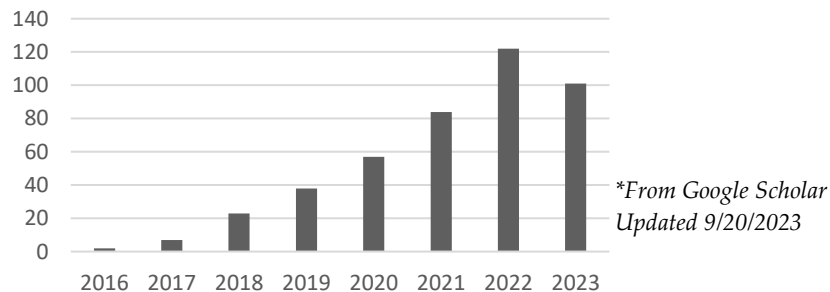
Research Assistant September 2014-August 2018  
Adjunct Professor January 2015-May 2015

#### West Chester University

Adjunct Professor January 2018-May 2018

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

	All	Since 2018
Citations	443	430
h-index	12	12
i10-index	13	13



- 2023 1. **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*. (Accepted).

2. 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*. (Accepted).
3. **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*. (In Press).
4. **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 5. **Nicholas N. Ferenchak**. (2022). U.S. Vision Zero Cities: Modal Fatality Trends and Strategy Effectiveness. *Transportation Letters: The International Journal of Transportation Research*, 1-12.
6. **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.
7. 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.
8. **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.
9. **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.
10. **Nicholas N. Ferenchak**. (2022). Residential Development Patterns and Child Pedestrian Injury Rates. *Journal of Transportation Safety & Security*, 14(1): 67-82.
- 2021 11. **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.
12. **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.
13. 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 14. **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.
15. 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.
16. **Nicholas N. Ferenchak** and W.E. Marshall. (2020). Quantifying Suppressed Child Pedestrian and Bicycle Trips. *Travel Behaviour and Society*, 20: 91-103.
17. **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 18. **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.
19. 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.
20. **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.
21. **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 22. **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 23. **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.
24. 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.
25. **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 26. **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 27. **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.

### Refereed Reports

- 2023 1. **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 2. **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 3. **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 4. **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.
5. **Nicholas N. Ferenchak**. (2020). *Enhancing Evaluation of Wildlife Detection Systems*. Transportation Consortium of South-Central States, University Transportation Centers Program, Louisiana State University, 19SAUNM03.
- 2019 6. **Nicholas N. Ferenchak**, 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.
7. **Nicholas N. Ferenchak**, 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. Ferenchak**. (2018). A Call for Proactive Road Design. *Vision Zero Cities: International Journal of Traffic Safety Innovation*, ed. 3.
2. Transportation Alternatives Data Exchange. (2014). *Transportation Alternatives and Transportation Enhancements 2013 Spending Report*. Washington, DC: Federal Highway Administration.

### Research Under Peer-Review (underline indicates that author is/was my student; \* indicates funded)

1. K. Nordback, S. Kothuri, B. Lan, G. Gibson, **Nicholas N. Ferenchak**, and W.E. Marshall. Bicyclist Safety Performance Functions for Road Segments in a U.S. City. *Journal of Transportation Safety & Security*. (Invited for Revision).

2. A.J. Barney and **Nicholas N. Ferenchak**. Analyzing Access to Parks and Other Green Spaces on Walking, Biking, and Driving Networks Through a Socioeconomic Lens. *Local Environment*. (Invited for Revision).
3. **Nicholas N. Ferenchak**, R.B. Osofsky, W. Simon, J. White, T. Reed, R. Clark, J. Paul, S. West, and R. Miskimins. Integration of Transportation and Trauma Databases to Identify Effects of Signalized vs Non-Signalized Street Crossings on Pedestrian Injury Severity. *Journal of Trauma and Acute Care*. (Invited for Revision).
4. **Nicholas N. Ferenchak** and W.E. Marshall. Why Cities with High Bicycling Rates are Safer for All Road Users: An Analysis of Mid-Size Cities. *Journal of Cycling and Micromobility Research*. (Invited for Revision).
5. **Nicholas N. Ferenchak**. Someone Call 911! The Impact of Communication Advances on Emergency Notification and Response Times for Fatal Rural/Urban Motor Vehicle Collisions. *Transportation Research Record: Journal of the Transportation Research Board*.
6. A.R. Joshi\*, **Nicholas N. Ferenchak**, and L.L. Losada-Rojas. Bus Rapid Transit as Arterial Corridor Traffic Calming: The Relationship Between Transit Infrastructure and Vehicle Operating Speeds. *Transportation Research Record: Journal of the Transportation Research Board*.
7. A.R. Joshi\* and **Nicholas N. Ferenchak**. Where Is Bus Rapid Transit (BRT) Most Effective at Improving Safety Outcomes? A Crash Analysis by Infrastructure Characteristics. *Transportation Research Record: Journal of the Transportation Research Board*.
8. O. Tafoya\* and **Nicholas N. Ferenchak**. Pedestrian Safety and Vehicle Design: Are SUVs and Pickup Trucks to Blame? *Transportation Research Record: Journal of the Transportation Research Board*.
9. K. Habib, L.L. Losada-Rojas, and **Nicholas N. Ferenchak**. A Review of the Impacts of Human Factors on Cycling: Workload, Behavior, and Perception. *Transportation Research Record: Journal of the Transportation Research Board*.
10. **Nicholas N. Ferenchak**, B.N. Janson, and W.E. Marshall. Estimating Lives Saved and Serious Injuries Reduced by Bicycle Helmet Use in Colorado, 2006-2014. *International Journal of Injury Control and Safety Promotion*.

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

- 2023
1. **Nicholas N. Ferenchak**. (January 2023). Automated Vehicle Noise Enforcement: Opportunities and Challenges. LECTERN. *New Mexico Paving & Transportation Conference*: Albuquerque, NM.
  2. 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.

3. 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.
- 2022 4. **Nicholas N. Ferenchak**. (October 2022). Next Steps for Making your Community More Walkable. LECTERN. *American Planning Association – New Mexico Chapter Annual Meeting*: Albuquerque, NM.
5. 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.
6. **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 7. **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.
8. **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.
9. **Nicholas N. Ferenchak** and S. Shafique\*. (August 2021). Pedestrians' Perceptions of Autonomous Vehicle External Human-Machine Interfaces. LECTERN. *Bridging Transportation Researchers Conference*: Remote.
10. **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.
11. **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.
12. **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.
13. 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.
14. **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.

15. **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.
16. M.C. Cruz\* and **Nicholas N. Ferenchak**. (January 2021). Public Art and Transportation. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
- 2020 17. **Nicholas N. Ferenchak**. (September 2020). Autonomous Vehicle Communication Strategies Modeled in Virtual Reality. Lectern. *Tran-SET Conference*: Albuquerque, NM.
18. **Nicholas N. Ferenchak** and D. Hadwiger. (September 2020). Enhancing Evaluation of Wildlife Detection Systems. Lectern. *Tran-SET Conference*: Albuquerque, NM.
19. **Nicholas N. Ferenchak** and G. Rowangould. (September 2020). ABQ Streets Project: Creating Alternative Residential Street Designs. Lectern. *Tran-SET Conference*: Albuquerque, NM.
20. **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.
21. 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.
22. **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.
23. T. Moe\* and **Nicholas N. Ferenchak**. (January 2020). Proactively Analyzing Nighttime Pedestrian Fatalities. Poster. *Transportation Research Board Annual Meeting*: Washington, DC
24. **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.
25. **Nicholas N. Ferenchak** and J. Hirsch. (January 2020). Enhancing Evaluation of Wildlife Detection Systems. Lectern. *New Mexico Paving & Transportation Conference*: Albuquerque, NM.
- 2019 26. **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.
27. **Nicholas N. Ferenchak**. (August 2019). Adopting Proactive Indicators of Pedestrian and Bicyclist Safety. Lectern. *Association of Pedestrian & Bike Professionals' Seminar*: Portland, OR.
28. **Nicholas N. Ferenchak** and W.E. Marshall. (June 2019). Implementing Vision Zero: Cities for Kids. Lectern. *Congress for the New Urbanism (Invited)*: Louisville, KY.

29. **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.
30. **Nicholas N. Ferenchak.** (January 2019). An Equity Analysis of Proactively- vs. Reactively- Identified Traffic Safety Issues. Lectern. *Transportation Research Board Annual Meeting*: Washington, DC.
31. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2019). Adopting Proactive Indicators of Traffic Safety. Lectern. *New Mexico Paving & Transportation Conference*: Albuquerque, NM.
- 2018 32. **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.
33. **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.
34. **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.
35. **Nicholas N. Ferenchak** and W.E. Marshall. (July 2018). So Unsafe, It Seems Safe: Reassessing Safety via Perceived Risk. Webinar. *ITE Webinar Series*.
36. **Nicholas N. Ferenchak** and W.E. Marshall. (May 2018). Exploring Neglected Safety Equity Issues. Lectern. *Congress for the New Urbanism*: Savannah, GA.
37. **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.
38. **Nicholas N. Ferenchak.** (February 2018). Parental Perceptions and Mode Choice to Explore Child Pedestrian & Bicyclist Safety. Poster. *Active Living Research Conference*: Banff, Alberta, Canada.
39. **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.
40. **Nicholas N. Ferenchak** and W.E. Marshall. (January 2018). Age-Specific Bicycling Safety Trends, 1985-2015. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
41. 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.



42. **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.
43. **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 44. **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.
45. **Nicholas N. Ferenchak**. (September 2017). Redefining Safe Streets Through a New Child Pedestrian Demand/Exposure Model. Lectern. *Walk21 Conference*: Calgary, Alberta, Canada.
46. **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.
47. **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.
48. **Nicholas N. Ferenchak**. (August 2017). So Unsafe, It Seems Safe: Reassessing Safety via Perceived Risk. Poster. *ITE Annual Meeting (Invited)*: Toronto, Ontario, Canada.
49. **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.
50. 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 51. **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.
52. **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.
53. **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.
54. 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.

55. **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.
56. **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.
57. **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.
58. **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.
59. **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.
60. **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 61. **Nicholas N. Ferenchak**. (September 2015). Child Pedestrian Safety: Examining Opportunities for Improvements around Parks. Poster. *Association of Pedestrian & Bike Professionals' Seminar*: St. Louis, MO.
62. **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.
63. **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.
64. 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.
65. **Nicholas N. Ferenchak**. (April 2015). Locating and Addressing our Child Pedestrian Fatalities within Denver. Poster. *Spring Transportation Symposium*: Denver, CO.
66. **Nicholas N. Ferenchak**. (January 2015). Motorized Two-Wheelers in Indian Cities: Case Study of Pune. Poster. *Transportation Research Board Annual Meeting*: Washington, DC.
- 2014 67. 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 68. **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.

69. **Nicholas N. Ferenchak.** (July 2013). Transportation Alternatives Certificate of Excellence. Lectern. *Transportation Alternatives Professional Seminar*: Greenville, SC.

### Academic Honors

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 SOE 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 Funding = \$17,778,362; My Share = \$5,727,035)

Center for Pedestrian and Bicyclist Safety (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**

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

TRB Bicycle Transportation Committee (ACH20)  
*Committee Member* April 2021-Present

MRCOG Regional Transportation Safety Action Plan  
*Technical Team* July 2023-Present

Albuquerque Bikeways and Facilities Master Plan  
*Stakeholder Advisory Committee* January 2023-Present

NMDOT Pedestrian Safety Task Force <i>Member</i>	November 2022-Present
TRB Transportation-Related Noise and Vibration Committee (AEP80) <i>Committee Volunteer</i>	October 2022-Present
TRB Bicycle and Pedestrian Data Subcommittee (ACP70-3) <i>Communications Manager</i>	June 2017-June 2022
Institute of Transportation Engineers <i>Student Chapter: Faculty Advisor</i>	May 2019-Present
ABQ RIDE Forward Network Plan <i>Stakeholder Advisory Committee</i>	September 2022-Present
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

BTSCR-09: Influence of Infrastructure Design on Distracted Driving	Sept. 2018-Apr. 2022
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### Courses Taught

1. Study Abroad: Transportation Systems in the Netherlands (CE 491/598) Instructor's Overall Effectiveness: 4.93/5.00 Comfort Approaching Instructor: 5.00/5.00	Summer 2023
2. Urban Transportation Planning (CE 481/581) Instructor's Overall Effectiveness: 4.70/5.00 Comfort Approaching Instructor: 4.90/5.00	Spring 2023
3. Surveying and Geomatics (CE 283) Instructor's Overall Effectiveness: 4.75/5.00 Comfort Approaching Instructor: 4.63/5.00	Spring 2022

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|--|-------------|
| 4. Transportation Engineering (CE 382)         | Fall 2021   |
| Instructor's Overall Effectiveness: 4.94/5.00  |             |
| Comfort Approaching Instructor: 4.94/5.00      |             |
| 5. Urban Transportation Planning (CE 481/581)  | Fall 2021   |
| Instructor's Overall Effectiveness: 5.00/5.00  |             |
| Comfort Approaching Instructor: 4.91/5.00      |             |
| 6. Surveying and Geomatics (CE 283)            | Spring 2021 |
| Instructor's Overall Effectiveness: 4.82/5.00  |             |
| Comfort Approaching Instructor: 5.00/5.00      |             |
| 7. Transportation Engineering (CE 382)         | Fall 2020   |
| Instructor's Overall Effectiveness: 4.76/5.00  |             |
| Comfort Approaching Instructor: 4.88/5.00      |             |
| 8. Transportation Safety (CE 491/598)          | Spring 2020 |
| Instructor's Overall Effectiveness: 4.64/5.00  |             |
| Comfort Approaching Instructor: 4.72/5.00      |             |
| 9. Transportation Engineering (CE 382)         | Fall 2019   |
| Instructor's Overall Effectiveness: 4.94/5.00  |             |
| Comfort Approaching Instructor: 4.94/5.00      |             |
| 10. Transportation Safety (CE 491/598)         | Spring 2019 |
| Instructor's Overall Effectiveness: 5.00/5.00  |             |
| Comfort Approaching Instructor: 5.00/5.00      |             |
| 11. 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: 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 |

**Students Advised – Faculty Advisor**

	Graduated	In Progress	Dropped Out
PhD	0	1	2
MS	4	3	1
BS	4	1	0

PhD Students

1. Ashish Joshi: PhD Civil Engineering. *Identifying and Addressing Barriers to Bus Rapid Transit (BRT) Utilization: A Case Study of Albuquerque Rapid Transit*. Anticipated Graduation May 2025 [has passed comprehensive exam and has authored 2 papers under peer review].
2. 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.].
3. 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 cut by government of Ecuador during COVID].

MS Students

4. Olivia Tafoya: MS Civil Engineering. Anticipated Graduation December 2024.
5. James Rawson: MS Civil Engineering. Anticipated Graduation December 2024.
6. Ossiris Sanchez Rodriguez: MS Civil Engineering. Anticipated Graduation May 2024.
7. Martina Mercure: MS Civil Engineering. *The Relationship Between Bus Rapid Transit and Traffic Safety*. Graduated May 2023.
8. Maria C. Cruz: MS Civil Engineering. *The Impact of Murals on Traffic Safety: A Behavior and Crash Analysis*. Graduated December 2022.
9. Max H. Dowis: MS Civil Engineering. Dropped Out in December 2021.
10. 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.
11. 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)

12. Olivia Tafoya: BS Civil Engineering, TRB Minority Student Fellowship. *Pedestrian Safety and Vehicle Design: Are SUVs and Pickup Trucks to Blame?* Anticipated Graduation December 2023.
13. Ossiris Sanchez Rodriguez: BS Civil Engineering, TRB Minority Student Fellowship. *Longitudinal Spatial Trends in U.S. Pedestrian Fatalities, 1999-2020*. Graduated May 2023.
14. 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.
15. 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.
16. 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. Gena Robertson: MS Civil Engineering. *Field Evaluation of E-ticketing Technologies for Efficient Asphalt Delivery Ticket Collection and Quantity Calculation*. Anticipated Graduation August 2023. Principal Advisor: Dr. Susan Bogus Halter, University of New Mexico.
2. Kristal Metro: PhD Civil Engineering. *Workforce Resiliency for Construction Careers in State Departments of Transportation*. Anticipated Graduation May 2022. Principal Advisor: Dr. Susan Bogus Halter, University of New Mexico.
3. 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, University of New Mexico.
4. 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, University of New Mexico.
5. 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, University of New Mexico.
6. Julia L. Seymour: MS Civil Engineering. *Evaluating Transportation Project Forecasts and Travel Demand Model Inaccuracies*. Graduated May 2019. Principal Advisor: Dr. Greg Rowangould, University of New Mexico.

### **Workshops Attended**

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|---|------------------|
| 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 |

### **Workforce Development**

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| MRCOG/NMLTAP Planning and Designing for Pedestrian Safety Workshop | May 23, 2023 |
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### **Books Citing Research**

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

### **Selected News & Press**

1. The Manila Times. (September 2023). "A Painted Bike Lane Is Not Safe." By Robert Y. Siy, <https://www.manilatimes.net/2023/09/09/business/top-business/a-painted-bike-lane-is-not-safe/1909167>
2. U.S. News & World Report. (June 2023). "Danger Afoot: U.S. Pedestrian Deaths at Highest Level in 41 Years." By Denise Mann, <https://www.usnews.com/news/health-news/articles/2023-06-22/danger-afoot-u-s-pedestrian-deaths-at-highest-level-in-41-years>
3. MedicineNet. (June 2023). "Danger Afoot: U.S. Pedestrian Deaths at Highest Level in 41 Years." By Denise Mann, [www.medicinenet.com/pedestrian\\_deaths\\_at\\_highest\\_level\\_in\\_41\\_years/news.htm](http://www.medicinenet.com/pedestrian_deaths_at_highest_level_in_41_years/news.htm)
4. Scripps News. (June 2023). "Researchers look to AI to reduce pedestrian and bicyclist fatalities." By Maya Rodriguez, <https://scrippsnews.com/stories/researchers-look-to-ai-to-reduce-pedestrian-and-bicyclist-fatalities/>
5. Lex18 Lexington. (June 2023). "Researchers look to AI to reduce pedestrian and bicyclist fatalities." By Maya Rodriguez, <https://www.lex18.com/researchers-look-to-ai-to-reduce-pedestrian-and-bicyclist-fatalities>
6. 23ABC Bakersfield. (June 2023). "Researchers look to AI to reduce pedestrian and bicyclist fatalities." By Maya Rodriguez, <https://www.turnto23.com/researchers-look-to-ai-to-reduce-pedestrian-and-bicyclist-fatalities>
7. The Hill. (April 2023). "Pedestrian deaths have risen 70 percent since 2010. Blame trucks." By Daniel de Vise, <https://thehill.com/policy/transportation/3976315-pedestrian-deaths-have-risen-70-percent-since-2010-blame-trucks/>
8. KNX News. (April 2023). "Pedestrian deaths jump significantly the past decade" by Rob Archer, <https://omny.fm/shows/knxam-on-demand/pedestrian-deaths-jump-significantly-the-past-deca>
9. UNM Newsroom. (April 2023). "UNM civil engineer attends transportation meeting with federal officials in Albuquerque" by Kim Delker, <https://news.unm.edu/news/unm-civil-engineer-attends-transportation-meeting-with-federal-officials-in-albuquerque>
10. KRQE News. (March 2023). "UNM selected as location to study pedestrian safety" by Laila Freeman, <https://www.krqe.com/news/albuquerque-metro/unm-selected-as-location-to-study-pedestrian-safety/>

11. UNM Newsroom. (March 2023). "UNM selected for new Center for Pedestrian and Bicyclist Safety" by Kim Delker, <https://news.unm.edu/news/unm-selected-for-new-center-for-pedestrian-and-bicyclist-safety>
12. Albuquerque Journal. (December 2022). "Noise Cameras Coming to ABQ" by Jessica Dyer, <https://www.abqjournal.com/2555543/city-council-says-yes-to-noise-cameras.html>
13. Bloomberg. (November 2022). "Can Cities Combat 'Green Gentrification'?" by Patrick Sisson, <https://www.bloomberg.com/news/features/2022-11-10/a-challenge-for-cities-going-green-without-the-gentrification>
14. KRQE. (January 2022). "UNM students study if Central ART route reduced crashes" by Curtis Segarra, <https://www.krqe.com/plus/data-reporting/unm-students-study-if-central-art-route-reduced-crashes/>
15. KOAT Action News. (November 2021). "New Mexico ranks #1 for pedestrian deaths" by Nancy Laflin, <https://www.koat.com/article/albuquerque-pedestrian-deaths-cars/38240056#>
16. BikePortland. (August 2021). "Study suggests bike lanes do not lead to displacement, gentrification" by Lisa Caballero, <https://bikeportland.org/2021/08/13/study-suggests-bike-lanes-do-not-lead-to-displacement-gentrification-336576>
17. Planetizen. (August 2021). "Study: Bike Lanes Don't Cause Displacement" by Diana Ionescu, <https://www.planetizen.com/news/2021/08/114407-study-bike-lanes-dont-cause-displacement>
18. Better Bike Share Partnership. (July 2021). "New Study: Bike Lanes Aren't Associated With Displacement" by Kiran Herbert, <https://betterbikeshare.org/2021/07/02/new-study-bike-lanes-arent-associated-with-displacement/>
19. Bicycle Retailer and Industry News. (July 2021). "Study provides insights into achieving equitable bicycling infrastructure" <https://www.bicycleretailer.com/industry-news/2021/07/08/study-provides-insights-achieving-equitable-bicycling-infrastructure#.YO9qX-hKiUk>
20. Next City. (July 2021). "Everything Wrong with Our 'Highways First' Approach to Urban Mobility" by Sandy Smith, <https://nextcity.org/daily/entry/everything-wrong-with-our-highways-first-approach-to-urban-mobility>
21. Streetsblog. (June 2021). "STUDY: New Bike Lanes Aren't Associated With Displacement of BIPOC, Low-Income People" by Kea Wilson, <https://usa.streetsblog.org/2021/06/21/study-new-bike-lanes-arent-associated-with-displacement-of-bipoc-low-income-people/>
22. Newsday. (November 2020). "Plan to Crack Down on Reckless Bicyclists Rolls Before Suffolk Lawmakers" by Jesse Coburn, <https://www.newsday.com/long-island/suffolk/suffolk-legislature-bicyclists-1.50069265>

23. Streetsblog Denver. (November 2019). "Hidden Safety Problems Keep Denver Kids from Walking and Biking" by Wes Marshall, <https://denver.streetsblog.org/2019/11/26/hidden-safety-problems-keep-denver-kids-from-walking-and-biking/>
24. Cycling Industry News. (August 2019). "Cycle Lanes Make Roads Safer for All Users, Says Colorado Uni Study" by Mark Sutton, <https://cyclingindustry.news/cycle-lanes-make-roads-safer-for-all-users-says-colorado-uni-study/>
25. ABC 10 News San Diego. (July 2019). "Protected Bike Lanes Don't Just Help Cyclists. They Keep Drivers Safe Too, A New Study Shows" by Kai Beech, <https://www.10news.com/news/national/protected-bike-lanes-dont-just-help-cyclists-they-keep-drivers-safe-too-a-new-study-shows>
26. Dopplr. (July 2019). "Protesters Organize to Show Lack of Protection Painted Bike Lanes Give Cyclists" <https://www.dopplr.com/protesters-organize-to-show-lack-of-protection-painted-bike-lanes-give-cyclists/>
27. Fox 7 Austin. (July 2019). "Mueller Neighborhood Gets New Bike Lanes" by Esmi Careaga, <http://www.fox7austin.com/news/local-news/mueller-neighborhood-gets-new-bike-lanes>
28. Gridsmart. (July 2019). "Protected Bike Lanes Make Streets Safer for Everyone" <https://gridsmart.com/policysmart-44-protected-bike-lanes-make-streets-safer-for-everyone-with-laura-bliss-citylab/>
29. KUNM. (July 2019). "Better Bikeways = Safer Roads for All" by Spencer Beckwith, <https://www.kunm.org/post/better-bikeways-safer-roads-all>
30. Outside. (July 2019). "Bike Lanes Make Cities Safer for Everyone" by Joe Lindsey, <https://www.outsideonline.com/2399281/bike-lanes-make-cities-safer-everyone>
31. The Denver Channel. (July 2019). "Protected Bike Lanes Don't Just Help Cyclists. They Keep Drivers Safe Too, A New Study Shows" by Kai Beech, <https://www.thedenverchannel.com/news/national/protected-bike-lanes-dont-just-help-cyclists-they-keep-drivers-safe-too-a-new-study-shows>
32. The Spokesman-Review. (July 2019). "Getting There: Bikeways Are Coming to East Sprague" by Nicholas Deshais, <https://www.spokesman.com/stories/2019/jul/22/getting-there-spokane-to-study-bike-trail-linking-/>
33. We Love Cycling. (July 2019). "New Research: Cycling Lanes Make Roads Safer for Everyone" by Jiri Kaloc, <https://www.welovecycling.com/wide/2019/07/11/new-research-cycling-lanes-make-roads-safer-for-everyone/>
34. American City & County. (June 2019). "Study Finds Protected Bike Lanes Make Roadways Safer for Everyone" by Derek Prall, <https://www.americancityandcounty.com/2019/06/11/study-finds-protected-bike-lanes-make-roadways-safer-for-everyone/>

35. CityLab. (June 2019). "Protected Bike Lanes Are Safer for Drivers, Too" by Laura Bliss, <https://www.citylab.com/transportation/2019/06/protected-bike-lanes-safe-street-design-bicycle-road-safety/590722/>
36. Clean Technica. (June 2019). "Dedicated Bicycle Lanes Reduce Injuries & Fatalities" by Steve Hanley, <https://cleantechnica.com/2019/06/09/dedicated-bicycle-lanes-reduce-injuries-fatalities/>
37. Der Tagesspiegel. (June 2019). "Poller erhöhen die Sicherheit von Radfahrern und Fußgängern" by Walter Willems, <https://www.tagesspiegel.de/wissen/us-studie-poller-erhoehen-die-sicherheit-von-radfahrern-und-fussgaengern/24412430.html>
38. Green Car Reports. (June 2019). "More Bikes Make Cities Safer for All, Study Shows" by Eric C. Evarts. [https://www.greencarreports.com/news/1123524\\_more-bikes-make-cities-safer-for-car-drivers-study-shows](https://www.greencarreports.com/news/1123524_more-bikes-make-cities-safer-for-car-drivers-study-shows)
39. Pacific Standard. (June 2019). "Do Better Bike Lanes Keep Drivers Safe?" by Laura Bliss, <https://psmag.com/social-justice/do-better-bike-lanes-make-better-drivers>
40. Planetizen. (June 2019). "Less Paint, More Barriers, Make for Better Urban Cycling" by Irvin Dawid, <https://www.planetizen.com/news/2019/06/104618-less-paint-more-barriers-make-better-urban-cycling>
41. Rice Kinder Institute for Urban Research. (June 2019). "Cities with Protected Bike Lanes Are Safer for Everyone, Including Drivers" by Heather Leighton, <https://kinder.rice.edu/urbanedge/2019/06/11/cities-high-bicycling-rates-safer-all-road-users-texas-road-deaths>
42. Treehugger. (June 2019). "Proper Separated Bike Lanes Are Better for Everyone", by Lloyd Alter, <https://www.treehugger.com/bikes/proper-separated-bike-lanes-are-better-everyone.html>
43. UNM Newsroom. (June 2019). "Research Shows More Bikes Equal Safer Roads for All", by Kim Delker, <https://news.unm.edu/news/research-shows-more-bikes-equal-safer-roads-for-all>
44. Bicycle Network. (May 2019). "Protected bike lanes make roads safer — even if you're in a car" <https://www.bicyclenetwork.com.au/newsroom/2019/05/30/protected-bike-lanes-make-roads-safer/>
45. Canadian Broadcasting Corporation. (May 2019). "New American study suggests protected bike lanes make roads safer for all users" by Alan Neal, <https://www.cbc.ca/listen/live-radio/1-92-all-in-a-day/clip/15712675-new-american-study-suggests-protected-bike-lanes-make-roads-safer-for-all-users>
46. CBS Boston. (May 2019). "Bike Lanes Make Roads Safer For Everyone, Study Finds" by Mallika Marshall, <https://boston.cbslocal.com/2019/05/30/bike-lanes-make-roads-safer-study/>

47. CBS Pittsburgh. (May 2019). "Study: Bike Lanes Make Roads Safer For Everyone" <https://pittsburgh.cbslocal.com/2019/05/30/study-bike-lines-make-roads-safe/>
48. Consumer Affairs. (May 2019). "Bike lanes make roads safer for everyone, study finds" by Kristen Dalli, <https://www.consumeraffairs.com/news/bike-lanes-make-roads-safer-for-everyone-study-finds-053019.html>
49. CU Denver Today. (May 2019). "Cycling lanes, not cyclists, lower road fatalities" by Rachel Sturtz, <https://www.cudenvertoday.org/cycling-lanes-not-cyclists-lower-road-fatalities/>
50. Curbed. (May 2019). "Bike lanes need barriers, not just paint" by Alissa Walker, <https://www.curbed.com/word-on-the-street/2019/5/10/18527503/bike-lanes-red-cup-project>
51. Daily Mail. (May 2019). "Cycle lanes reduce the number of deaths among DRIVERS and cyclists as new research shows the paths make our roads safer for us all" by Luke Andrews, <https://www.dailymail.co.uk/news/article-7084903/Cycle-lanes-reduce-number-deaths-CAR-drivers-according-new-research.html>
52. Denverite. (May 2019). "CU Denver study: Cities with protected bike lanes are safer for cyclists and drivers" by Esteban L. Hernandez, <https://denverite.com/2019/05/29/cu-denver-study-cities-with-protected-bike-lanes-are-safer-for-cyclists-and-drivers/>
53. Earth.com. (May 2019). "Protected bike lanes help prevent fatal crashes for everyone on the road" by Chrissy Sexton, <https://www.earth.com/news/protected-bike-lanes-prevent-crashes/>
54. Fast Company. (May 2019). "Bike lanes make you less likely to die on the street—even if you're driving or walking" by Eillie Anzilotti, <https://www.fastcompany.com/90357294/bike-lanes-make-you-less-likely-to-die-on-the-street-even-if-youre-driving-or-walking>
55. Healing Well. (May 2019). "Bike Lanes Do Help Keep Cyclists Safe" <http://news.healing-well.com/index.php?p=news1&id=746866>
56. HealthCast. (May 2019). "Bike Lanes Do Help Keep Cyclists Safe" <https://thehealthcast.com/-fitness-exercise/bike-lanes-do-help-keep-cyclists-safe/>
57. Health Day. (May 2019). "Bike Lanes Do Help Keep Cyclists Safe" <https://consumer.healthday.com/fitness-information-14/cycling-health-news-245/bike-lanes-do-help-keep-cyclists-safe-746866.html>
58. Health Medicine Network. (May 2019). "Cycling lanes reduce fatalities for all road users, study shows" <http://healthmedicinet.com/i/cycling-lanes-reduce-fatalities-for-all-road-users-study-shows/>
59. Houston Chronicle. (May 2019). "Texas transportation leaders to aim for zero roadway deaths" by Dug Begley,

<https://www.houstonchronicle.com/news/transportation/article/Texas-transportation-leaders-to-aim-for-zero-13905051.php>

60. Independent. (May 2019). "Bike lanes save lives of drivers as well as cyclists, study finds" by Tom Batchelor, <https://www.independent.co.uk/news/uk/home-news/bike-lane-cycling-road-safety-driver-deaths-fatalities-a8934841.html>
61. Long Room. (May 2019). "Cycling lanes reduce fatalities for all road users, study shows" <https://www.longroom.com/discussion/1503957/cycling-lanes-reduce-fatalities-for-all-road-users-study-shows>
62. Medical Xpress. (May 2019). "Cycling lanes, not cyclists, reduce fatalities for all road users" <https://medicalxpress.com/news/2019-05-lanes-cyclists-fatalities-road-users.html>
63. Medindia. (May 2019). "Cycling Lanes Reduce Fatalities" by Colleen Fleiss, <https://www.medindia.net/news/cycling-lanes-reduce-fatalities-188068-1.htm>
64. Popular Science. (May 2019). "Protected bike lanes make the roads safer—even if you're in a car" by Kat Eschner, <https://www.popsci.com/protected-bike-lanes-safer-roads>
65. Road.cc. (May 2019). "Study: Good cycling infrastructure makes roads safer for everyone" by Simon MacMichael, <https://road.cc/content/news/261415-study-good-cycling-infrastructure-makes-roads-safer-everyone>
66. Science Magazine. (May 2019). "Cycling lanes, not cyclists, reduce fatalities for all road users" <https://scienmag.com/cycling-lanes-not-cyclists-reduce-fatalities-for-all-road-users/>
67. Science News. (May 2019). "Cycling lanes reduce fatalities for all road users, study shows" <https://www.sciencedaily.com/releases/2019/05/190529113036.htm>
68. Streetsblog. (May 2019). "Separated Bike Lanes Means Safer Streets, Study Says" by Aaron Short, <https://usa.streetsblog.org/2019/05/29/protect-yourself-separated-bike-lanes-means-safer-streets-study-says/>
69. The London Economic. (May 2019). "Cycle lanes 'reducing fatalities among ALL road users'" by Joe Mellor, <https://www.thelondoneconomic.com/travel/cycle-lanes-reducing-fatalities-among-all-road-users/29/05/>
70. TuniseSoir News. (May 2019). "Study: Roads are safer for motorists, pedestrians and cyclists in cities with robust bike facilities" by James M. Patterson, <http://www.tunisesoir.com/health/study-roads-are-safer-for-motorists-pedestrians-and-cyclists-in-cities-with-robust-bike-facilities-details-16633-2019/>
71. U.S. News & World Report. (May 2019). "Bike Lanes Do Help Keep Cyclists Safe" by Robert Preidt, <https://www.usnews.com/news/health-news/articles/2019-05-31/bike-lanes-do-help-keep-cyclists-safe>

72. Yahoo! News. (May 2019). "HealthWatch: Bike Lanes Make Roads Safer For Everyone" by Mallika Marshall, <https://news.yahoo.com/healthwatch-bike-lanes-roads-safer-213437723.html>
73. UNM Newsroom. (April 2019). "School of Engineering experts helping to improve Balloon Fiesta access" by Kim Delker, <https://news.unm.edu/news/school-of-engineering-experts-helping-to-improve-balloon-fiesta-access>
74. Wall Street Journal. (January 2019). "Better Street Design is Preventing Fatalities" by Nick Ferenchak, <https://www.wsj.com/articles/better-street-design-is-preventing-fatalities-11548360301?mod=searchresults&page=1&pos=1>
75. Public Square. (May 2018). "Learning from the Past, Planning for the Future" by Nick Ferenchak, <https://www.cnu.org/publicsquare/2018/05/31/learning-past-planning-future>
76. Fox News. (January 2017). "Child pedestrian deaths more likely around parks" <https://www.foxnews.com/health/child-pedestrian-deaths-more-likely-around-parks>
77. Reuters. (January 2017). "Child Pedestrian Deaths More Likely Around Parks" by Carolyn Crist, <https://www.reuters.com/article/us-health-children-pedestrian-safety-idUSKBN15A1IV>
78. Strong Towns. (November 2016). "What Are Sharrows Worth?" by Rachel Quednau, <https://www.strongtowns.org/journal/2016/11/9/what-are-sharrows-worth>
79. Fast Forward. (May 2016). "Protecting Pedestrians and Bicyclists" by Aaron Mack, <http://fastforwardtransportation.com/V3-safety-protectingped.html>
80. CityLab. (February 2016). "Some Bike Infrastructure is Worse Than None at All" by Eric Jaffe, <https://www.citylab.com/solutions/2016/02/sharrow-safety-bike-infrastructure-lane-chicago/460095/>
81. Fast Company. (January 2016). "A 'Sharrow' isn't a Bike Lane and Probably Doesn't Keep Cyclists Safer. So Why Are Cities Making Them?" by Adele Peters, <https://www.fastcompany.com/3055834/a-sharrow-isnt-a-bike-lane-and-probably-doesnt-keep-cyclists-safer-so-why-are-cities-making->
82. Colorado Public Radio. (January 2016). "Bicycle 'Sharrows', A Denver Invention, Now Under Researchers' Scrutiny" by Michael de Yoanna, <http://www.cpr.org/news/story/bicycle-sharrows-denver-invention-now-under-researchers-scrutiny>
83. Streetsblog USA. (January 2016). "Study: Sharrows Don't Make Streets Safer for Cycling" by Angie Schmitt, <https://usa.streetsblog.org/2016/01/14/study-sharrows-dont-make-streets-safer-for-cycling/>
84. Momentum Mag. (January 2016). "No Surprise: Study Finds Sharrows Don't Make Streets Safer" by Momentum Mag, <https://momentummag.com/no-surprise-study-finds-sharrows-do-little-to-increase-safety/>

85. Transportist. (April 2015). "Elements of Access: Spontaneous Priority" by Wes Marshall, <https://transportist.org/2015/04/13/>

### **Outreach Activities**

TRB Minority Student Fellows Program: Organizer & Faculty Advisor	2018-Present
Dwight Eisenhower Transportation Fellowship: Organizer & Faculty Advisor	2018-Present
21 <sup>st</sup> Annual Summer Transportation Institute	July 2023
MRCOG/NMLTAP Planning and Designing for Pedestrian Safety Workshop	May 2023
UNM Engineers Without Borders: DOE Solar Decathlon Advisor	October 2022-May 2023
New Mexico Paving & Transportation Conference Organizer	2019-Present
UNM CCEE Graduate Committee	2018-Present
SOE Open House Participant	October 2022
20 <sup>th</sup> Annual Summer Transportation Institute	June 2022
Moderator of Bridging Transportation Researchers Conference	August 2021
19 <sup>th</sup> Annual Summer Transportation Institute	June 2021
SOE Open House Participant	November 18, 2020
Civil Engineering Night Open House Participant	October 22, 2020
Tran-SET UTC Conference Organizer	2019
17 <sup>th</sup> Annual Summer Transportation Institute	July 2019
Future City Competition (Middle School Design Competition): Judge	January 2019

### **Journal Reviews**

International Journal of Child Care and Education Policy  
International Journal of Injury Control and Safety Promotion  
International Journal of Sustainable Transportation  
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 Reviews  
Transportation Research Interdisciplinary Perspectives  
Transportation Research Letters  
Transportation Research Part A: Policy and Practice  
Transportation Research Record  
Travel Behaviour and Society  
Urban Design International  
Urban, Planning and Transport Research

### **Research Implementation**

Los Angeles Public Works implementation of proactive safety analysis



**Patents**

**Nicholas N. Ferenchak.** Patent #17328327: Self-Contained Autonomous Vehicle Noise Pollution Detection and Recording Device. (Under review since May 2020).

## Professional

### Professional Certification

- |   |                |
|---|----------------|
| Professional Engineer (#25737)<br>State of New Mexico | August 2019    |
| Engineer Intern (EI #5142)<br>State of Delaware       | September 2016 |

### Professional Experience

- Not A-Loud LLC: *Albuquerque, New Mexico* December 2019-Present  
Founder of company developing and implementing automated vehicle noise enforcement devices and systems.
- McMahon Associates: *Exton, Pennsylvania* 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, D.C.* May 2013-July 2014  
Provided bicycle and pedestrian guidance for the Transportation Alternatives Program.
- Jeppesen: *Englewood, Colorado* February 2014-June 2014  
Created digital navigation tools in a GIS SDE environment.
- Chester County Planning Comm.: *West Chester, Pennsylvania* April 2013-December 2013  
Aided with a grant program, transit plan, and bicycle and pedestrian circulation plan.
- The Rails-to-Trails Conservancy: *Washington, District of Columbia* 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 Mgmt. Assoc.: *Wayne, Pennsylvania* October 2012-May 2013  
Investigated a park and ride system for the Pennsylvania Department of Transportation.
- Lafarge: *Whitehall, Pennsylvania* 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>	