

NOREEN C. McDONALD

Department of City & Regional Planning
New East Building, CB 3140
Chapel Hill, North Carolina 27599-3140
E: noreen@unc.edu

EDUCATION

| | | |
|--------|---|------|
| Ph.D. | University of California, Berkeley, City & Regional Planning | 2005 |
| M.C.P. | University of California, Berkeley, City & Regional Planning | 2000 |
| M.S. | University of California, Berkeley, Civil & Environmental Engineering | 2000 |
| A.B. | Harvard University, Engineering & Chemistry, <i>magna cum laude</i> | 1995 |

PROFESSIONAL EXPERIENCE

| | | |
|--|--|------------|
| University of North Carolina at Chapel Hill | | |
| | Professor, Department of City & Regional Planning | 2017- |
| | Thomas Willis Lambeth Distinguished Term Chair in Public Policy | 2018-2023 |
| | Associate Professor, Department of City & Regional Planning | 2012-2017 |
| | Assistant Professor, Department of City & Regional Planning | 2007-2012 |
| | Faculty Fellow, Sheps Center for Health Services Research | 2019- |
| | Faculty Fellow, Center for Urban and Regional Studies | 2007- |
| University of Leeds, Institute for Transport Studies | | |
| | Visiting Professor (courtesy) | 2016-2019 |
| | Fulbright Distinguished Chair | 2015-2016 |
| University of Virginia | | |
| | Assistant Professor, Department of Urban & Environmental Planning | 2005-2007 |
| | Assistant Professor (courtesy), Department of Civil Engineering | 2005-2007 |
| | Transportation Consultant, Cambridge Systematics, Oakland, CA | 2001- 2002 |
| | Research & Teaching Assistant, UC, Berkeley, Institute of Transportation Studies & Departments of Planning, Civil & Environmental Engineering, Geology | 2000-2004 |
| | Intern, San Francisco Bay Area Rapid Transit District (BART), Oakland, CA | 1999- 2000 |
| | Intern, U.S. Environmental Protection Agency, Washington, DC | 1999 |
| | Management Consultant, Mercer Management Consulting (now Oliver Wyman), NY, NY | 1995-1998 |

ADMINISTRATIVE EXPERIENCE

| | | |
|--|--|----------------------|
| | Senior Associate Dean, Social Sciences and Global Programs | 2023- |
| | Chair, Department of City & Regional Planning | 2016-2022 |
| | Member, Advisory Board: Environment, Energy, and Ecology Program | 2018-2022 |
| | Associate Director, Collaborative Sciences Center for Road Safety | 2016-2023 |
| | Associate Director, Southeastern Transportation Research, Innovation, Development and Education Center | 2016-2023 |
| | Director, Carolina Transportation Program | 2014-2015, 2016-2023 |
| | Director, Doctoral Program, Department of City & Regional Planning | 2011- 2015 |

| | |
|---|-----------|
| Member, Graduate School Administrative Board | 2011-2015 |
| Interim Director, Center for Urban & Regional Studies | 2014 |
| Interim Director, Carolina Transportation Program | 2011 |

HONORS

| | |
|--|-----------|
| Academic Leadership Program, Institute of Arts & Humanities | 2018-2019 |
| Leadership in Doctoral Education Award, Department of City & Regional Planning | 2017 |
| Fulbright Distinguished Chair, University of Leeds | 2015-2016 |
| Scholar-in-Residence, Center for Urban & Regional Studies, UNC | 2011 |
| Junior Faculty Development Award, University of North Carolina | 2009 |
| Excellence in Diversity Fellow, University of Virginia | 2005-2006 |
| Student of the Year, University of California Transportation Center | 2004-2005 |
| Dissertation Fellowship, Robert Wood Johnson Foundation, | 2004-2005 |
| Dissertation Fellowship, University of California Transportation Center | 2004 |
| Eisenhower Graduate Fellowship, US Department of Transportation | 2001-2004 |
| California Planning Foundation Continuing Student Scholarship | 1999 |

REFEREED PAPERS (* indicates student/trainee)

Santana Palacios, M.*, N. McDonald, E. Iacobucci*. 2023. Impacts of North Carolina's Medicaid transformation on community transit systems: A qualitative analysis with policy implications. *Transportation Research Interdisciplinary Perspectives* 22.

Wang, J.*, Cochran, A.*, N. McDonald, E. Vinella-Brusher*, M. McKinley. 2023. Spatial and Temporal Trends for COVID-19 Vaccinations. *AJPM Focus* 2(3).

Iacobucci, E.*, N. McDonald, R. Naumann, K. Kucera. 2023. Examining Injury Trends in Parcel Delivery Drivers in the United States: Challenges and Opportunities. *American Journal of Industrial Medicine* 66: 441-453.

Wolfe, M., N. McDonald, E. Ussery, S. George, K. Watson. 2023. Systematic review of active travel to school surveillance in the United States and Canada. *Journal of Healthy Eating and Active Living* 1(3): 127-141.

Lyons, T.*, N. McDonald. 2023. Last Mile Strategies for Urban Freight Delivery: A Systematic Review. *Transportation Research Record* 2677(1): 1141-1156.

Combs, T., N. McDonald, W. Leimenstoll.* 2023. Evolution in Local Traffic Impact Assessment Practices. *Journal of Planning Education and Research* 43(4): 815-828.

Cochran, A.*, N. McDonald, L. Prunkl*, E. Vinella-Brusher*, J. Wang*, L. Oluyede*, M. Wolfe. 2022. Transportation Barriers to Care Among Frequent Health Care Users During the COVID Pandemic. *BMC Public Health* 22:1783.

Iacobucci, E.*, N. McDonald, C.H.W. Edwards, R. Steiner, and J. Griffith*. 2022. Stemming the Tide: Approaching Urban Freight in the Era of e-Commerce. *ITE Journal*.

Vinella-Brusher, E., A.L. Cochran, E. Iacobucci, J. Wang, M. Wolfe, L. Oluyede, L. Prunkl, and N.C. McDonald. 2022. "Potential of Telehealth to Mitigate Transport Barriers: Evidence from the COVID-19 Pandemic." *Findings*, July.

Iacobucci, E.*, N. McDonald, C.H.W. Edwards, R. Steiner. 2022. Using Social Media to Understand Challenges Faced by US Urban Parcel Delivery Drivers: Reports from the Curb. *Transport Policy* 126: 96-106.

Wang, J.*, Kaza, N., McDonald, N., Khanal, K.*. 2022. Socio-Economic Disparities in Activity-Travel Behavior Adaptation During the COVID-19 Pandemic in North Carolina. *Transport Policy* 125: 70-78.

Wang, J.*, Parajuli, S.*, Cherry, C. R., McDonald, N. 2022. Vulnerable Road User Safety and Freight Vehicles: A Case Study in North Carolina and Tennessee. *Transportation Research Interdisciplinary Perspectives* 15.

Oluyede, L.*, A.L. Cochran*, M. Wolfe, L. Prunkl*, N. McDonald. 2022. Addressing transportation barriers to health care during the COVID-19 pandemic: Perspectives of Care Coordinators. *Transportation Research Part A* 159: 157-168.

Oluyede, L.*, A.L. Cochran*, L. Prunkl*, J. Wang*, M. Wolfe, N. McDonald. 2022. Unpacking Transportation Barriers and Facilitators to Accessing Health Care: Interviews with Care Coordinators. *Transportation Research Interdisciplinary Perspectives* 13.

Wang, J.*, N. McDonald, A. Cochran*. 2021. Health Care Visits During the COVID-19 Pandemic: A Spatial and Temporal Analysis of Mobile Device Data. *Health and Place* 72.

Cochran, A.*, J. Wang*, L. Prunkl*, L. Oluyede*, M. Wolfe, N. McDonald. 2021. Access to the COVID-19 vaccine in centralized and dispersed distribution scenarios. *Findings* 10.

Kontou, E.* and N. McDonald. 2021. Associating ridesourcing with road safety outcomes: Insights from Austin, Texas. *PloS one* 16(3).

McDonald, N. and Q. Yuan*. 2021. Freight Loading Space Provision: Evidence from the U.S.A. *Journal of Urban Planning and Development* 147(2).

Zhang, X.*, Y. Yang, A. Cochran*, N. McDonald, X. Zhao. 2021. Optimizing Demand-Responsive Paratransit Operations: A Mixed Integer Programming Approach. 55th Annual Conference on Information Sciences and Systems (CISS), 1-6.

Combs, T. and N. McDonald. 2021. Driving Change: Exploring the Adoption of Multimodal Local Traffic Impact Assessment Practices. *Journal of Transport and Land Use* 14(1): 47-64.

McDonald, N., E. Kontou, S. Handy. 2021. Children and Cycling in *Cycling for Sustainable Cities* ed. J. Pucher and R. Buehler. Cambridge: MIT Press.

Wolfe, M.*, N. McDonald, S. Arunachalam, R. Baldauf, A. Valencia Arias*. 2021. Impact of school location on children's air pollution exposure. *Journal of Urban Affairs* 43(8): 1118-1134.

McDonald, N, and T. Combs. 2020. Reinventing TIA: Contemporary Approaches to Addressing the Traffic Impacts of Urban Development. *ITE Journal* 90(9): 46-49.

Wolfe, M.* and N. McDonald. 2020. Innovative health care mobility services in the US. *BMC Public Health* 20: 906.

Wolfe, M.*, N. McDonald, G. M. Holmes. 2020. Transportation barriers to health care in the US: Findings from the NHIS, 1997-2017. *American Journal of Public Health* 110(6): 815-822.

Kontou, E*, N. McDonald, K. Brookshire, N. Pullen-Seufert, S. LaJeunesse. 2020. U.S. active school travel in 2017: Prevalence and correlates. *Preventive Medicine Reports* 17.

Porter, A., E. Kontou*, N. McDonald, K. Evenson. 2020. Perceived Barriers to Commuter and Exercise Bicycling in US Adults: The 2017 National Household Travel Survey. *Journal of Transport and Health* 16.

McDonald, N. and K. Peng*. 2020. The changing nature of work and time use: implications for travel demand. In *Transportation, Land Use, and Environmental Planning*, ed. E. Deakin. Cambridge: Elsevier.

McDonald, N., W.M. Palmer*, R. Steiner. 2019. Making the economic case for active school travel. *Transport and Children's Wellbeing*. Elsevier.

McDonald, N., Q. Yuan*, R. Naumann. 2019. Urban freight and road safety in the era of e-commerce. *Traffic Injury Prevention* 20(7): 764-770.

Herrador-Colmenero, M., M. Escabias, F.B. Ortega, N.C. McDonald, P. Chillon. 2019. Mode of commuting to and from school: A similar or different pattern. *Sustainability* 11(4).

Delbosc, A., N. McDonald, G. Stokes, K. Lucas, G. Circella, Y. Lee. 2019. Millennials in cities: Comparing travel behaviour trends across six case study regions. *Cities* 90: 1-14.

Combs, T., L. Sandt, M. Clamann, N. McDonald. 2019. Automated Vehicles and Pedestrian Safety: Exploring the Promise and Limits of Pedestrian Detection. *American Journal of Preventive Medicine* 56(1): 1-7.

Besser, L.*, D.A. Rodriguez, N. McDonald, Y. Song, W.A. Kukull, A.L. Fitzpatrick, S.R. Rapp, T. Seeman. 2018. Neighborhood Built Environment and Cognition in Non-Demented Older Adults: The Multi-Ethnic Study of Atherosclerosis. *Social Science & Medicine* 200: 27-35.

Besser, L.*, N. McDonald, Y. Song, W.A. Kukull, D.A. Rodriguez. 2017. Neighborhood Environment and Cognition in Older Adults: A Systematic Review. *American Journal of Preventive Medicine* 53: 241-251.

Marsden, G. and N. McDonald. 2017. Institutional Issues in Planning for More Uncertain Futures. *Transportation*.

McDonald, N. 2017. Trends in Automobile Travel, Motor Vehicle Fatalities, and Physical Activity, 2003-2015. *American Journal of Preventive Medicine* 52(5): 598-605.

- Garikapati, V., R. Pendyala, E. Morris, P. Mokhtarian, N. McDonald. 2016. Activity Patterns, Time Use, and Travel of Millennials: A Generation in Transition? *Transport Reviews* 35(5): 558-584.
- Wolfe, M.*, N. McDonald. 2016. Association Between Neighborhood Social Environment and Children's Independent Mobility. *Journal of Physical Activity & Health* 13(9): 970-979.
- McDonald, N., R. Steiner, M. Palmer*, A. Bullock*, V. Sisiopiku, B. Lytle. 2016. Costs of School Transportation: Quantifying the Fiscal Impacts of Encouraging Walking and Bicycling for School Travel. *Transportation* 43(1): 159-175.
- McDonald, N., L. Merlin*, H. Hu*, J. Shih*, D. Cohen, K. Evenson, T. McKenzie, D. Rodriguez. 2016. Longitudinal Analysis of Adolescent Girls' Activity Patterns: Understanding the Influence of the Transition to Licensure. *Journal of Transportation and Land Use* 9(2).
- McDonald, N. 2015. Are Millennials Really the 'Go Nowhere' Generation? *Journal of the American Planning Association* 81(2): 90-103.
- McDonald, N., A. McGrane*, E. Rodgman, R. Steiner, W. Palmer*, B. Lytle. 2015. Assessing Multimodal School Travel Safety in North Carolina. *Accident Analysis & Prevention* 74: 126-132.
- McDonald, N., R. Steiner, C. Lee, T. Rhoulac Smith, X. Zhu, Y. Yang. 2014. Impact of the Safe Routes to School Program on Walking and Bicycling. *Journal of the American Planning Association* 80(2): 153-167.
- McDonald, N., D. Salvesen, R. Kuhlman, T. Combs*. 2014. The Impact of Changes in State Minimum Acreage Policies on School Siting Practices. *Journal of Planning Education and Research* 34(2): 169-179.
- McDonald, N., P. Barth, R. Steiner. 2013. Assessing the Distribution of Safe Routes to School Program Funds, 2005-2012. *American Journal of Preventive Medicine* 45(4): 401-406.
- McDonald, N., Y. Yang, S. Abbott, A. Bullock*. 2013. Impact of the Safe routes to School Program on Walking and Biking: Eugene, Oregon Study. *Transport Policy* 29: 243-248.
- McDonald, N. 2012. Children and Cycling in *City Cycling*, ed. J. Pucher and R. Buehler. Cambridge: MIT Press.
- McDonald, N. 2012. Is There a Gender Gap in School Travel? An Examination of U.S. Children and Adolescents. *Journal of Transport Geography* 20: 80-86.
- McDonald, N. 2011. School Siting in Suburban Areas: A Case Study of Maryland and Northern Virginia in *School Siting and Healthy Communities: Why Where We Invest in School Facilities Matters*, ed R. Miles, A. Adelaja, and M. Wyckoff. East Lansing: Michigan State University Press.
- McDonald, N., A. Brown, L. Marchetti, and M. Pedroso. 2011. U.S. School Travel 2009: An Assessment of Trends. *American Journal of Preventive Medicine* 41(2): 146-151.
- McDonald, N., A. Dwelley*, T. Combs*, K. Evenson, and R. Winters II. 2011. Reliability and Validity of the Safe Routes to School Parent and Student Surveys. *International Journal of Behavioral Nutrition and Physical Activity* 8(56).

McDonald, N. 2010. School Siting: Contested Visions of the Community School. *Journal of the American Planning Association* 76(2): 184-198.

Marshall, J., R Wilson, Katie Meyer, S. Rajangam, N. McDonald, and E. Wilson. 2010. Vehicle Emissions during Children's School Commuting: Impacts of Education Policy. *Environmental Science & Technology*.

McDonald, N., E. Deakin, and A. Aalborg. 2010. Influence of the Social Environment on Children's School Travel. *Preventive Medicine* 50(S1): 65-68.

McDonald, N. and M. Trowbridge. 2009. Does the Built Environment Affect When American Teens Become Drivers? Evidence from the 2001 National Household Travel Survey. *Journal of Safety Research* 40(3): 177-183.

McDonald, N. and A. Aalborg. 2009. Why Parents Drive Children to School: Implications for Safe Routes to School Programs. *Journal of the American Planning Association* 75(3): 331-342.

McDonald, N. 2008. Household Interactions and Children's School Travel: The Effect of Parental Work Patterns on Walking and Biking to School. *Journal of Transport Geography* 16: 324-331.

McDonald, N. 2008. The Effect of Objectively Measured Crime on Walking in Minority Adults. *American Journal of Health Promotion* 22(6): 433-436.

McDonald, N. 2008. Critical Factors for Active Transportation to School Among Low-Income and Minority Students: Evidence from the 2001 National Household Travel Survey. *American Journal of Preventive Medicine* 34(4): 341-344.

Trowbridge, M. and N. McDonald. 2008. Urban Sprawl and Miles Driven Daily by Teenagers in the United States. *American Journal of Preventive Medicine* 34(3): 202-206.

McDonald, N. 2008. Children's Mode Choice for the School Trip: The Role of Distance and School Location in Walking to School. *Transportation* 35(1):23-35.

McDonald, N. and M. Howlett. 2007. Pupil Transportation Funding: A Framework for Analysis. *Transportation Research Record: Journal of the Transportation Research Board* 2009: 98-103.

McDonald, N. 2007. Active Transportation to School: Trends Among U.S. Schoolchildren, 1969-2001. *American Journal of Preventive Medicine* 32(6):509-516.

McDonald, N. 2007. Travel and the social environment: Evidence from Alameda County, California. *Transportation Research D* 12: 53-63.

McDonald, N. 2006. An Exploratory Analysis of Children's Travel Patterns. *Transportation Research Record: Journal of the Transportation Research Board* 1977: 1-7.

McDonald, N. 2005. Does the Built Environment Affect the Travel 'Gender Gap'? *Conference Proceedings 35: Research on Women's Issues in Transportation; Volume 2: Technical Papers*. Washington, DC: Transportation Research Board.

McDonald, N., S. Librera, and E. Deakin. 2004. Free Transit for Low-Income Youth: Experience in the San Francisco Bay Area. *Transportation Research Record: Journal of the Transportation Research Board* 1887: 153-160.

McDonald, N., C. Porter, and R. Gorham. 2003. Availability of Travel Forecasting Methods and Data for Air Quality Planning in Developing Countries. *Transportation Research Record: Journal of the Transportation Research Board* 1859: 110-116.

McDonald, N. and R. Noland. 2001. Simulated Travel Impacts of High-Occupancy Vehicle Lane Conversion Alternatives. *Transportation Research Record: Journal of the Transportation Research Board*. 1765: 1-7.

REFEREED REPORTS

McDonald, N., C.H.W. Edwards, E. Iacobucci, E. Vinella-Brusher. 2023. Planning for Urban Freight: Putting It Into Practice. STRIDE Research Report. Available at: https://rosap.ntl.bts.gov/view/dot/72849/dot_72849_DS1.pdf

Zhao, X., X. Yan, N. Kaza, N. Kitner, N. McDonald, X. Jin, J. LaMondia, A. Broaddus. 2023. Mobility-on-demand Transit for Smart and Sustainable Cities. STRIDE Research Report: Available at: https://rosap.ntl.bts.gov/view/dot/72843/dot_72843_DS1.pdf.

Bardaka, E., X. Jin, N. McDonald, R. Steiner, J. LaMondia. 2022. Emerging Mobility Services for the Transportation Disadvantaged. STRIDE Research Report. Available at: https://rosap.ntl.bts.gov/view/dot/63244/dot_63244_DS1.pdf.

McDonald, N., R. Steiner, CHW Edwards, E. Iacobucci, J. Griffith. 2022. Overcoming Barriers to Freight and Logistics Firm collaboration with Urban Planning. STRIDE Research Report. Available at: https://stride.ce.ufl.edu/wp-content/uploads/sites/153/2022/12/STRIDE-Project-D5-Final-Report.pdf?utm_source=TRB+Weekly&utm_campaign=94af6e0b4c-EMAIL_CAMPAIGN_2022_12_19_07_29&utm_medium=email&utm_term=0_c66acb9bce-94af6e0b4c-%5BLIST_EMAIL_ID%5D

Steiner, R., N. McDonald, T. Combs, W. Leimenstoll, X. Yang, A. Soucy. 2021. The Challenges of Predicting Travel Behavior Based on Estimating Trip Generation: Local Traffic Impact Assessment in Four Southeastern and Mid-Atlantic States. STRIDE Research Report. Available at: <https://stride.ce.ufl.edu/wp-content/uploads/2021/09/STRIDE-Final-Report-Project-E-FINAL.pdf>

Watkins, K., N. McDonald, E. Bardaka, R. Steiner, I. Bejleri, S. Berrebi, A. Alakshendra. 2021. Changing Access to Public Transportation and the Potential for Increased Travel. STRIDE Research Report. Available at: <https://rosap.ntl.bts.gov/view/dot/57431>

McDonald, N., R. Steiner, Q. Yuan, S. Wood. 2021. Urban Freight Delivery and Loading Spaces. STRIDE Research Report. Available at: <https://rosap.ntl.bts.gov/view/dot/57281>

McDonald, N. and T. Lyons. 2020. Safety of the Urban Freight System: Key Performance Indicators. Report to NC Department of Transportation. Available at: <https://connect.ncdot.gov/projects/research/RNAProjDocs/2020-36%20Urban%20Freight%20Road%20Safety%20-%20Final%20Report.pdf>

Watkins, K., N. McDonald, R. Steiner, B. Williams. 2019. Transit in the Era of Shared Mobility. STRIDE Research Report. Available at: <https://stride.ce.ufl.edu/wp-content/uploads/2017/03/STRIDE-Project-G-Final.pdf>.

Sisiopiku, V., M. Hadi, N. McDonald, R. Steiner, O. Ramadan. 2019. Technology Influence on Travel Demand and Behaviors. STRIDE Research Report. Available at: <https://stride.ce.ufl.edu/wp-content/uploads/2020/06/STRIDE-Project-B-Final-Report.pdf>.

N. McDonald, T. Combs, A. Khattak, E. Shay, M. Clamann, D. Clarke, C. Dong, X. Kun, L. Sandt, et al. 2018. Connected and Automated Vehicles and Safety of Vulnerable Road Users: A Systems Approach. CSCRS Research Report. Available at: https://www.roadsafety.unc.edu/wp-content/uploads/2019/06/CSCRS_R6_Final-Report.pdf

McDonald, N. and W.M. Palmer. 2017. Evaluating the Relationship Between School Site Selection, Residential Developments and School Transportation in North Carolina. STRIDE Research Report. Available at: https://stride.ce.ufl.edu/wp-content/uploads/2017/03/STRIDE_2016-016_Final-Report.pdf.

McDonald, N. R. Steiner, W.M. Palmer. 2017 Practitioner Workshop on School Siting and School Transportation Impacts. STRIDE Research Report. Available at: https://stride.ce.ufl.edu/wp-content/uploads/2017/03/STRIDE_2016-012_Final-ReportWorkshop.pdf.

McDonald, N., R. Steiner, W.M. Palmer. 2016. School Transportation: Development of an Education Module and Workshops on Multi-modal Costs. STRIDE Research Report. Available at: http://stride.ce.ufl.edu/uploads/docs/STRIDE_2013-32S_Final-Report.pdf.

McDonald, N., R. Steiner, V. Sisiopiku, W.M. Palmer, B. Lytle, J. Tsai, T. Cook. 2015. Quantifying the Costs of School Transportation: Project No. 2012-022S. STRIDE Research Report. Available at: http://www.stride.ce.ufl.edu/uploads/docs/STRIDE_QSTC_FinalReport2015_Main.pdf

INVITED PRESENTATIONS

McDonald, N. The Transport Agenda in the US. Chartered Institute of Highway and Transportation (UK) Young Professionals Conference. December 2021.

McDonald, N. Plenary Address: Unpacking Safe Systems Concepts to Inform Our Research and Practice. October 2021. North Carolina Department of Transportation Research and Innovation Summit.

McDonald, N. Power Plenary: The Post-COVID Society through a Transportation Lens. ITE Annual Meeting. July 2021.

McDonald, N. Using Big Data to Understand Pandemic Impacts in North Carolina. NC State WTS Chapter. March 2021.

McDonald, N. Changing Technology, Changing Travel: Planning Transportation in a Time of Uncertainty. Hyde Lecture, College of Architecture, University of Nebraska, Lincoln, February 2020.

McDonald, N. Health and Transportation: Understanding the Role of Emerging Mobility Options. The Ohio State University, Center for Urban and Regional Analysis, November 2019.

McDonald, N. Associating Ridesourcing with Road Safety Outcomes: Insights from Austin, Texas. Cornell University Department of City & Regional Planning, September 2019.

McDonald, N. Concluding Remarks: Reflections on the Summit. Safe Systems Summit, Durham, NC, April 2019.

McDonald, N. Curriculum Updating and Envisioning (with Lisa Servon, Zorica Nedovic-Budic, Weiping Wu). ACSP Administrator's Conference, Minneapolis, MN, March 2019.

McDonald, N. Active Living 101 (with Jim Sallis). Active Living Conference, Charleston, SC, February 2019.

McDonald, N. Planning Infrastructure in a Time of Uncertainty. Keynote at International Association of China Planning, Xi'an, China, July 2018.

McDonald, N. Air Pollution Exposure During School Commutes. Yunnan University, Kunming, China, June 2018.

McDonald, N. How to Explain Changing Travel Behavior? A Decomposition Approach. Georgia Tech, Department of Civil and Environmental Engineering, Transportation Seminar, February 2018.

McDonald, N. Millennials and Driving: What are the Trends and What Does It Mean for Transport Needs? WTS Annual Conference, New York, May 2017.

McDonald, N. School Siting and Transportation Impacts. Capital Area MPO School Siting Committee, Raleigh, NC, December 2016.

McDonald, N. Maximizing Value Creation Along Charlotte's Blue Line Extension. The 3rd International Conference of Ocean Industrial Innovation and Development. Tianjin, China, October 2016.

McDonald, N. Commentary on Transport Planning. Foreign Urban Planning Academic Committee, Tianjin, China, October 2016.

McDonald, N. Millennials in Cities: Mobility Trends in Three Countries. Beijing Jiaotong University, Beijing, China, October 2016.

McDonald, N. Millennials in Cities: Mobility Trends in Three Countries. Symposium on the Integration of Transportation, Land Use, and Environmental Planning for Equity, Economic Development, and a Healthy Environment. UC Berkeley, October 2016.

McDonald, N. Evolving Mobility Patterns of Young Adults. Urban Big Data Centre, University of Glasgow, May 2016.

McDonald, N. Municipal Management of Millennials. International Municipal Lawyers Association Webinar, May 2016.

McDonald, N. Perspectives on England. Fulbright Berlin Seminar, March 2016.

McDonald, N. Millennials and Travel: What are the Implications for the Future of Transport Policy? Instituto Superior Tecnico, Lisbon, March 2016

McDonald, N. Decreased Millennial Automobility: Are There Public Health Co-Benefits? Center for Transport Studies, Imperial College, London, March 2016

McDonald, N. Decreased Millennial Automobility: What are the Public Health Co-Benefits? Norwich Medical School, University of East Anglia, Norwich, March 2016

McDonald, N. What Explains the Downturn in Driving?. University of the West of England, Centre for Transport and Society, Bristol, January 2016.

McDonald, N. Changing Mobility of Young Adults and Links to Local Development. University of Trento, Departments of Sociology and Economics, Trento, Italy, December 2015.

McDonald, N. The New Mobility Patterns of Young Adults. UK Department for Transport, London, December 2015

McDonald, N. US Experience with the Safe Routes to School Program, Modeshift Conference, Birmingham, November 2015.

McDonald, N. Invited expert for workshop on Future of Urban Mobility, Hosted by Chalmers University, Brussels, October 2015.

McDonald, N. Are Millennials Really the Go-Nowhere Generation?, Demand Seminar, University of Leeds, October 2015.

McDonald, N. Understanding Children's Travel. ITS Seminar, University of Leeds, October 2015.

McDonald, N. Safe Routes to School Programs and Children's Travel. Health and Well-being Seminar, Department of Parks, Recreation, and Tourism Management, North Carolina State University. April 2015.

McDonald, N. Impacts of the Safe Routes to School Program on Walking and Bicycling. University of California, Berkeley Department of City and Regional Planning, February 2015.

McDonald, N. Collaboration in Planning: University- Community Partnerships. North Carolina American Planning Association Conference, Durham, NC, October 2014.

McDonald, N. Hazard Busing. Invited participant at the Roundtable on School Transportation, National Partnership for Safe Routes to School, April 2014.

McDonald, N. School Location and Independent Mobility: Is There a Way Out of This Conundrum? Presented at the Growing in Place Symposium, Raleigh, NC, March 2014.

McDonald, N. Panel on Affordable Housing and Transit. Invited by the City of Durham Neighborhood Improvement Services Department and the Durham Innovation Center. Durham, NC, April 2013.

McDonald, N. School Travel. Invited by the Institute of Medicine Committee on Physical Activity and Physical Education in the School Environment. Washington, DC, September 2012.

McDonald, N. Impact of Safe Routes to School Programs on Walking and Biking. Department of City and Regional Planning, University of Pennsylvania, April 2012.

McDonald, N. School Travel. Green Health Seminar. Funded by NIH. Washington, DC. October 2011.

McDonald, N. Borrowing from Sociology: Adapting Collective Efficacy to Studies of the Social Environment and Travel Behavior. Frontiers in Transportation Workshop. Funded by Social Sciences and Humanities Research Council. Niagara-on-the-Lake, Ontario, October 2011.

McDonald, N. Understanding Heterogeneity in Children's School Travel. Institute of Transportation Studies, University of California, Davis, March 2011.

McDonald, N. Children's Geographies: What Can We Learn From School Travel? University of North Carolina at Charlotte, Department of Geography, February 2010

McDonald, N. Why Parents Drive Their Children to School. Safe Routes to School National Conference, August 2009 and University of North Carolina at Greensboro, Department of Geography Colloquium, February 2009.

McDonald, N. School Siting in High Growth Areas: A Comparison of Maryland and Northern Virginia. Florida State University Symposium on School Siting and Health Communities, April 2008.

McDonald, N. Planning for the Travel Needs of Growing Youth and Aging Populations. UCLA Lake Arrowhead Symposium on Transportation and Land Use, October 2007.

McDonald, N. Children's School Travel: Implications for Transportation Engineers. Department of Civil Engineering, University of Virginia, March 2006.

McDonald, N. Opportunities and Barriers to Non-Motorized Travel for Women and Children. UCLA Lake Arrowhead Symposium on Transportation and Land Use, October 2005.

McDonald, N. Getting to School: The Impact of Free Transit on Low-income and Minority Youth. Harvard Civil Rights Projects and Brookings Institute, Washington DC. January 2005.

REFEREED PRESENTATIONS (WHEN PRIMARY PRESENTER)

N. McDonald. The Congestion Impacts of Urban Freight. ATINER Conference on Transportation, Athens, Greece, May 2023.

N. McDonald, R. Waldon, K. Heatwole, D. Planey. How Data Sets Transformed Recovery Efforts. Presented at the American Planning Association National Planning Conference, May 2021.

Delbosc, A., N. McDonald, G. Stokes, K. Lucas, G. Circella, Y. Lee. Millennials in Cities. Presented at the Transportation Research Board, Washington, DC, January 2018.

Wolfe, M., N. McDonald, S. Arunachalam, R. Baldauf, A. Valencia. Air Pollution Exposure During School Commutes. Presented at the Transportation Research Board, Washington, DC, January 2018.

Wolfe, M., N. McDonald, S. Arunachalam, R. Baldauf, A. Valencia. School Location and Air Pollution Exposure. Presented at the American Collegiate Schools of Planning, Denver, October 2017.

Wolfe, M., N. McDonald, S. Arunachalam, R. Baldauf, A. Valencia. Air Pollution Exposure During School Commutes. Presented at the International Conference on Transport and Health, Barcelona, June 2017.

McDonald, N., G. Mattoli, G. Marsden. Understanding the Impact of the Changing Labor market on Millennial Mobility, UK 1995-2014. Presented at the Transportation Research Board, Washington, DC, January 2017.

McDonald, N., G. Marsden. Planning Transport Infrastructure in a Time of Uncertainty. Presented at the Transportation Research Board, Washington, DC, January 2017.

McDonald, N. Assessing the Travel of the Millennial Generation Using Pseudo-Panels. Presented at the International Association of Travel Behavior Research, Windsor, UK, July 2015.

McDonald, N., M. Wolfe. Association between Neighborhood Social Environment and Children's Independent Mobility. Presented at the International Society of Behavioral Nutrition and Physical Activity, Edinburgh, UK, June 2015.

McDonald, N., L. Merlin, H. Hu, J. Shih, D. Cohen, K. Evenson, T. McKenzie, D. Rodriguez. Longitudinal Analysis of Adolescent Girls' Activity Patterns in San Diego and Minneapolis: Understanding the Influence of the Transition to Licensure. Presented at the World Society for Transport & Land Use Research, June 2014.

McDonald, N. and A. Bullock. Are Millennials Really the 'Go Nowhere' Generation? Divergent Patterns Between Men and Women. Presented at the 5th Women's Issues in Transportation Conference, April 2014.

McDonald, N., R. Steiner, B. Lytle, M. Palmer. Quantifying the Full Costs of School Transportation. Presented at the Active Living Research Conference, March 2014.

McDonald, N., Y. Yang, S. Abbott, A. Bullock. Safe Route to School Program's Impact on Walking and Biking: Eugene, Oregon Study. Presented at the Active Living Research Conference, February 2013.

McDonald, N. and A. Bullock. Are Millennials Really the 'Go Nowhere' Generation? Presented at the American Collegiate Schools of Planning, November 2012.

Kash, G. and N. McDonald. Travel Behavior and Perceived Barriers to Walking More Frequently: Analysis of Relationship Between Mode Choice and Attitudes in California. Presented at the 91st Transportation Research Board Meeting, January 2012.

Rodriguez, D., T. Combs, N. McDonald, J. Greene, M. Schlossberg, and N. Larco. National Evidence Regarding Behavior and Physical Activity in New Urbanist Neighborhoods. Presented at the 91st Transportation Research Board Meeting, January 2012.

McDonald, N. and A. Dwelley. Individual, Family, Environmental, and Perceptual Factors Associated with Children's Independent Neighborhood Travel. Presented at the 90th Transportation Research Board Meeting, January 2011.

McDonald, N. and R. Steiner. Geographic Distribution of Safe Routes to School Funds: Analysis & Innovative Institutional Models. Presented at the Active Living Research Conference, February 2010.

McDonald, N. and A. Dwelley. Understanding the Role of Gender and the Built Environment in Teen Motor Vehicle Crashes: An Analysis of 16-19 Year Olds in North Carolina. Presented at the Transportation Research Board's Women's Travel Issues Conference, Irvine, CA, November 2009.

McDonald, N., D. Rodriguez, and B. Owen. Nature or Nurture: The Influence of Parental Transit Use on Their Adult Children's Transit Use. Presented at the American Collegiate Schools of Planning Meeting, October 2009.

McDonald, N., A. Aalborg, E. Deakin. Influence of the Social Environment on Children's School Travel in Walkable Neighborhoods. Plenary presentation at the Active Living Research Conference, February 2009.

McDonald, N. and A. Aalborg. Why do parents take kids to school? Implications for Safe Routes to School Programs. Presented at the 88th Transportation Research Board Meeting, January 2009.

McDonald, N. Who's taking the kids to school?: An examination of chauffeuring and mode choice in the United States, 1977-2001. Presented at the American Collegiate Schools of Planning Meeting, July 2008.

McDonald, N. Sex Differences in Children's School Travel. Presented at the 87th Transportation Research Board Meeting, January 2008.

McDonald, N. Travel and the Social Environment. Presented at the American Collegiate Schools of Planning Conference, October 2007.

McDonald, N. Critical Factors for Active School Travel among Low-Income and Minority Students. Presented at Active Living Research Annual Conference, February 2007.

McDonald, N. Pupil Transportation Finance: School Siting Implications. Presented at the 86th Transportation Research Board Meeting, January 2007 and the American Collegiate Schools of Planning Conference, November 2006.

McDonald, N. Changes in Children's School Travel between 1969 and 2001. Presented at the 85th Transportation Research Board Meeting, January 2006.

McDonald, N. Children's Travel Patterns: Evidence from the 2001 National Household Travel Survey. Presented at the 85th Transportation Research Board Meeting, January 2006.

McDonald, N. Children's Travel: Do Planners Have a Role in Getting Children to Walk to School. Presented at the American Collegiate Schools of Planning Conference, October 2005.

McDonald, N. Getting to School: The Impact of Free Transit on Low-income and Minority Youth. Presented at the 84th Transportation Research Board Meeting, January 2005.

McDonald, N. Does the Built Environment Affect the Travel 'Gender Gap'? Presented at the Women's Transportation Conference, November 2004.

McDonald, N. The State of School Travel. Presented at the American Collegiate Schools of Planning Conference, October 2004.

McDonald, N, C. Porter, and R. Gorham. Availability of Travel Forecasting Methods and Data for Air Quality Planning in Developing Countries. Presented at the 82nd Transportation Research Board Meeting, January 2003.

UNREFEREED PUBLICATIONS

Book Reviews

McDonald, N. 2011. A Review of "Children and Their Urban Environments: Changing Worlds." *Journal of the American Planning Association*, DOI:10.1080/01944363.2011.611069.

Reports

McDonald, N., R. Steiner, K. Cunningham, L. Delarco, R. Edgecombe, J. Kain, S. Kruljac, and C. Wells. 2011. Safe Routes to School: State Program Summaries. Chapel Hill, NC: Department of City and Regional Planning.

McDonald, N. 2007. Child Care and Transit: Final Report on Survey Findings. Prepared for Local Investment in Child Care (LINCC).

McDonald, N. 2005. Youth Travel: Year 2 Update. Prepared for AC Transit, Oakland, CA.

McDonald, N., S. Librera, E. Deakin, and M. Wachs. 2003. Low-Income Student Bus Pass Evaluation. Prepared for Metropolitan Transportation Commission, Oakland, CA.

McDonald, N. 2003. Multipurpose Smart Cards in Transportation: Benefits and Costs. University of California Transportation Center Publication #630.

Wachs, M., N. McDonald, and S. Buckley. 2001. Transportation Performance Measures. Prepared for the Metropolitan Transportation Commission, Oakland, CA.

TEACHING & MENTORING

Courses

Plan 636: Urban Transportation Planning

This course is the first element in the transportation planning sequence. The course exposes students to practice-oriented tools for travel demand forecasting and theoretical debates about the role of transport in today's society.

Fall 2020: 24 students; 4.1/5

Fall 2019: 37 students; 4.3/5

Fall 2018: 24 students; 4.3/5

Fall 2017: 24 students; 4.4/5

Spring 2017: 23 students; 4.6/5

Fall 2014: 31 students, 4.3/5

Plan 720: Planning Methods

This course is part of the first-semester “core” for Master’s students. It covers introductory statistics, e.g. t-tests, bivariate regression, and research design.

Fall 2020: 25 students, 4.0/5

Fall 2016: 28 students, 3.7/5

Fall 2014: 31 students, 3.6/5

Fall 2013: 23 students, 4.3/5

Fall 2012: Section 1, 21 students; Section 2: 16 students, 3.9/5

Fall 2011: Section 1, 18 students; Section 2: 6 students, 4.0/5

Plan 739: Travel Demand Modeling

This course introduces students to the topic of travel demand modeling and the TransCAD modeling software.

Spring 2015: 22 students, 4.5/5

Plan 800: Research Design

This is a required course for doctoral students that introduces the fundamentals of research design.

Spring 2022: 7 students; 4.7/5

Spring 2020: 8 students; 4.7/5

Spring 2018: 6 students; 3.8/5

Plan 823: Transportation and Land Use Workshop

This required capstone courses provides students with real-world planning experience. Previous projects include Transit Service and Development Challenges in Science Parks: The Case of RTP (2009), Transportation Access to Healthcare in Durham (2012), Housing and Transportation Affordability in Carrboro (2013), and Bike Planning at UNC Chapel Hill (2014).

Post-Doctoral Research Associates

- Evan Iacobucci (PhD Rutgers), 2021-
- Youngseob Eum (PhD University of Buffalo), 2022-2023 (Now: University of North Carolina, Charlotte)
- Manuel Santana Palacios (PhD UC Berkeley), 2022-2023 (Now: Knowlton School, Planning and Engineering, Ohio State University)
- Abigail Cochran (PhD UC Berkeley), 2020-2022 (Now: University of Nebraska Lincoln)
- Jueyu ‘Olivia’ Wang (PhD University of Minnesota), 2020-2022 (Now: Texas Transportation Institute)
- Torrey Lyons (PhD University of Utah), 2019-2020 (Now: MetroAnalytics)
- Eletheria Kontou (PhD University of Florida), 2018-2019 (Now: Civil Engineering, University of Illinois, Urbana-Champaign)
- Quan Yuan (PhD Urban Planning University of Southern California), 2018-2019 (Now: Tongji University)

Doctoral Student Advisees

- Kai Monast, PhD 2023, *Threats to Public Transportation Performance Measurement: Specific Examples of Performance Measurement Shortcomings*, (Program Manager, Public Transportation Group, ITRE, NC State)

- Lindsay Oluyede, PhD 2022, *Advancing Transportation Justice by Addressing Procedural Inequities in Public Involvement: An Investigation of Design Thinking in Transportation Decision-Making* (Now: Presidential Postdoctoral Scholar, Arizona State University)
- Mary Wolfe, PhD 2020, *Access to Healthcare: Perspectives on Transportation as a Social Determinant of Health* (Now: Associate Director, Center for Health Equity Research, UNC School of Medicine)
- Mathew Palmer, 2012-present (Director of Strategic Planning Initiatives, Durham Public Schools)

Doctoral Committees

Program Committee Member: Amanda Ullman (2020), Saumitra Sinha (2020), Lindsay Oluyede (2018, Chair), Helena Cardenas (2015), Lindsay Maurer Braun (2014), Kai Monast (2014), Kyle Onda (2014), Mary Wolfe (2014, Chair), Mathew Palmer (2013, Chair), Joshu Shih (2011, Chair), Lilah Besser (2008), Tabitha Combs (2007)

Comprehensive Exam Committee Member: Megan McIntyre (2023), Jo Kwon (2022), Amanda Ullman (2022), Saumitra Sinha (2021), Kshitiz Khanal (2021), Leah Campbell (2020), Matt Wilson (2020), Nora Schwaller (2019), Tibor Vegh (2019), Atticus Jaramillo (2019), Jordan Branham (2019), Kai Monast (2017, Chair), Mary Wolfe (2016, Chair), Kristen Vitro (2016), Jane Zhao (2016), Bill Bishop (2015), Lindsay Maurer Braun (2015), Mathew Palmer (2014), David Fuente (2013), Erik Vergel (2012), Joshu Shih (2012), Lilah Besser (2010), Eun Joo Cho (2008), Mary Donegan (2008), Tabitha Combs (2008), Marc Howlett (2010), Gihyoung Cho (2007)

Dissertation Committee Member:

- Saumitra Sinha, *Evaluating Delhi's Free Water Program*
- Helena Cardenas, 2023, *Households' Use of Water and Electricity in Urban Areas: Advancing the Understanding of the Roles of Pricing and Technology on Consumption, Equity, and Affordability* [The Nature Conservancy]
- William Bishop, 2018, *Value Creation in Proximity to U.S. Light Rail Transit Stations* [deceased]
- Lindsay Braun, 2018, *Geographies of (dis)advantage in walking and cycling: Perspectives on equity and social justice in planning for active transportation in U.S. cities* [University of Illinois, Urbana-Champaign]
- Gwen Kash, 2018, *Understanding User Needs in Latin American Transit Reform* [Social Motion]
- David Fuente, 2017 *Water Pricing and Tariff Reform: The Case of Nairobi, Kenya* [University of South Carolina]
- Lilah Besser, 2017, *Neighborhood Measures of the Built Environment and Cognition* [Florida Atlantic University]
- Jong Seon Lee, 2015 (NCSU), *The Association of Urban Form and Design with Children's Physical Activity and Active School Travel* [Senior Researcher Seoul National University]
- Marc Howlett, 2015, *Freight Planning and the Metropolis: The Role of Metropolitan Planning Organizations in Regional Freight Transportation Planning* [Office of Distinguished Scholarships, University of North Carolina at Chapel Hill]
- Louis Merlin, 2014, *Benefits of Regional and Local Accessibility for Households* [Florida Atlantic University]

- Tabitha Combs, 2013, *Relationships among BRT Access, Urban Form, and Household-level Transportation Outcomes - Evidence from Bogota, Colombia Using Pre- and Post-test Survey Data* [University of North Carolina at Chapel Hill]
- Gihyoug Cho, 2011, *Location or Design? Association between Neighborhood Location, Built Environment, Preference toward Neighborhood and Behaviors* [Ulsan National Institute of Science and Technology, Korea]

Master's Projects Supervised (Past 5 Years)

- Lauren Prunkl, MCRP 2022, *Exploring Eviction Data Collection Methods*, Supported by Eisenhower Fellowship [Kittelson & Associates]
- Sarah Brown, MCRP 2021, *Evaluating the Framing of Safety, Equity, and Policing in Active Transportation: Responses to the 2020 George Floyd Protests, Black Lives Matter, and Calls to Defund the Police*, Supported by Eisenhower Fellowship [Kittelson & Associates]
- Siobhan Nelson, MCRP 2021, *Where Does the Road Lead? Dismantling America's Urban Highways*
- Christian Snelgrove, MCRP 2021, *How Has COVID-19 Affected Telework Attitudes and Behaviors?* [WSP]
- Blake Cashmore, MCRP 2020, *Partnerships with Transportation Network Companies: A Case Study of First-Last Mile Innovation in Research Triangle Park* [Burlington-Graham MPO]
- Tory Gibler, MCRP 2020, *Curbside Management: Differing Innovative Curb Typologies in North Carolina Cities* [Fehr & Peers]
- Heyne Kim, MCRP 2020, *Automobile Scoot Over: Studying Urban Usage of Electric Scooters* [Boston Region MPO]
- Dave Olverson, MCRP 2020, *Redeveloping Parking Garages in a Future of Declining Parking Demand* [TND Partners]
- Yuejun Zhao, MCRP 2019, *What is Your Modality Type? Identifying Traveler Typology in North Carolina*
- Chenqi Zhu, MCRP 2019, *How Streets Adapt to New Generation Transportation*
- Sarah Johnson, MCRP/MLA 2019, *Midblock in Focus: A Case Study Application of the FHWA Systematic Safety Project Selection Tool in Raleigh, North Carolina*
- Lisa Fiedler, MCRP 2018, *Recognizing Resegregation: the Divisive Intent and Implications of School District Transportation Policies* [What Works Cities]
- Katy Lang, MCRP 2018, *An Evaluation of Demand-Responsive Transit in North Carolina's Research Triangle Park*, [Walk Arlington]
- Jenna Shouse, MCRP 2018, *Proposed Amendments to Section 8.3: Off-street Parking and Loading of the Apex UDO* [Town of Apex]
- Stephanie Tepperberg, MCRP 2018, *Updated Size, Demographic and Health Characteristics of the U.S. Population with Reduced Access to Non-Emergency Medical Transport and Practical Implications* [YMCA of the USA]
- Alyson West, MCRP 2018, *Women Cycling Survey: Analyzing and Communicating Survey Data via Tableau and Wordpress*, [Highway Safety Research Center]

GRANTS (ALL AMOUNTS ARE DIRECT)

NC Department of Transportation
8/22-6/24

PI: McDonald (2%)

Title: Impacts of Medicaid Transformation on Community Transit

NC Department of Transportation
2/20-7/22

PI: Williams (NCSU)
\$645,000

Title: Center for Mobility and Congestion (Transit and Mobility as a Service)
Role: Co-PI (5%)

NC Department of Transportation
7/19-12/20

PI: McDonald (2%)
\$39,059

Title: Safety of the Urban Freight System: Key Performance Indicators

US Department of Transportation
12/16-9/23

PI: Harkey/Sandt
\$12.75M

Title: Collaborative Sciences Center for Road Safety
Role: Co-PI (10%)

McDonald sub-awards include: Core Operations (\$608,038), Using advanced analytics to frame vulnerable road user scenarios with autonomous vehicles (\$96,162), Shared Mobility Services and their Connection to Road Safety (\$43,711), Urban Freight and Road Safety: Trends and Innovative Strategies (\$48,976)

US Department of Transportation
12/16-9/23

PI: Elefteriadou (U Florida)
\$10.75M

Title: STRIDE: Southeastern Transportation Research, Innovation Devt and Educ Center
Role: Co-PI (10%)

McDonald sub-awards include: UNC Transportation Travel and Administration (\$153,207), Transit in the Era of Shared Mobility (\$77,741), Predicting Congestion: The Challenge of Shifting Travel Behavior on Estimating Trip Generation (\$76,541), Technology Influences on Travel Demand and Behaviors (\$27,441), Emerging Mobility Services for the Transportation Disadvantaged (\$171,552), Transit Services and Congestion Mitigation in the Southeast (\$46,786), Planning for Urban Freight: Putting it Into Practice (\$57,877), Improving Access and Equity in Transportation (\$38,586)

US Department of Transportation, Eisenhower Fellowship
12/21-5/22

PI: McDonald (0%) (for L. Prunkl)
\$5,000

Title: Exploring Eviction Data

US Department of Transportation, Eisenhower Fellowship
12/20-5/21

PI: McDonald (0%) for L. Oluyede
\$5,000

Title: The Potential for Design Thinking

STRIDE: Southeastern Transportation Research, Innovation Devt and Educ Ctr
6/16-12/16

PI: McDonald (4%)
\$29,650

Title: Practitioner Workshop on School Siting and School Transportation Impacts

STRIDE: Southeastern Transportation Research, Innovation Devt and Educ Ctr
6/16-12/16

PI: McDonald (3%)
\$23,300 (\$6,432 UNC)

Title: Evaluating the Relationship Between School Site Selection, Residential Developments and School Transportation in North Carolina

Environmental Protection Agency
10/15-9/16

PI: Arunachalam
\$76,435

Title: Developing a Methodology to Estimate Air Pollution Exposure on the Trip to School Based on School Location and Transport Characteristics
Role: Co-PI (5%)

STRIDE: Southeastern Transportation Research, Innovation Devt and Educ Ctr PI: McDonald (6%)
8/13-12/15 \$82,818
Title: School Transportation: Development of an Education Module

Active Living Program, Robert Wood Johnson Foundation PI: McDonald (5%)
6/13-12/13 \$45,000
Title: Economic Benefits of Safe Routes to School

Active Living Program, Robert Wood Johnson Foundation PI: McDonald (6%)
4/13-12/13 \$35,714
Title: Benchmark Yourself: Providing Practitioners with School Travel Information

STRIDE: Southeastern Transportation Research, Innovation Devt and Educ Ctr PI: McDonald (17%)
7/11-6/15 \$166,875 (\$123,221 UNC)
Title: Quantifying the Full Costs of School Transportation

Oregon Transportation Research and Education Consortium PI: Yang, University of Oregon
10/11-6/14 \$100,000 (\$6,757 UNC)
Title: Promoting Active School Travel by Making it Cool: A Quasi Experimental Study Using Boltage
Role: Co-PI (2%)

Carolina Transportation Program PI: McDonald (0%)
8/11-5/12 \$5,000
Title: The Connections between Travel Behavior, Attitudes, and the Built Environment: A Longitudinal Approach

Southeastern Transportation Center PI: McDonald (4%)
6/11-5/12 \$23,770
Title: Impact of the Federal Safe Routes to School program on Pedestrian and Bicycle Safety: An Analysis of Washington DC and Florida

Active Living Program, Robert Wood Johnson Foundation PI: McDonald (5%)
1/11-1/13 \$285,889
Title: Multi-state Evaluation of the Safe Routes to School Program

Active Living Program, Robert Wood Johnson Foundation PI: McDonald (8%)
2/10-7/11 \$84,989
Title: The Effectiveness of Safe Routes to School Interventions

Active Living Program, Robert Wood Johnson Foundation PI: McDonald (8%)
2/10-7/11 \$44,643
Title: Reliability and Validity of the National Center for Safe Routes to School Parent and Student Surveys

Robert Wood Johnson Foundation PI: Kuhlman, Natl Trust for Historic Preservation
1/10-7/11 \$44,640 (\$21,375 UNC)

Title: What Motivates Policy Change? Understanding Why Some States Adopt Site Standard Policies That Promote Physical Activity

Role: Co-PI (2%)

Oregon Transportation Research and Education Consortium
10/09-9/10

PI: Weigand, Portland State
\$100,000 (\$40,090 UNC)

Title: Incorporating Convenience into Safe Routes to School Interventions: Development of a Stated Choice Experiment

Role: Co-PI (3%)

Robert Wood Johnson Foundation Transition Supplement Grant
7/09-6/10

PI: McDonald (10%)
\$60,309

Title: Linking Research on Children's Active Travel to Parent Education for Safe Routes to School Programs

UNC Junior Faculty Development Award
1/09-12/09

PI: McDonald (0%)
\$7,500

Title: Understanding the Association between the Environment and Teen Motor Vehicle Crashes: An Analysis of 16-19 Year Olds in North Carolina

Active Living Program, Robert Wood Johnson Foundation
1/09-12/09

PI: McDonald (3%)
\$46,283

Title: The Equity of Safe Route to School Investments

Oregon Transportation Research and Education Consortium
10/08-9/09

PI: Schlossberg, Univ of Oregon
\$67,000 (\$32,850 UNC)

Title: Travel Behavior, Residential Preference, and Urban Design: A Multi-Disciplinary National Analysis

Role: Co-PI (2%)

Active Living Program, Robert Wood Johnson Foundation
7/05-6/08

PI: Deakin, UC Berkeley
\$99,964 (\$50,700 UVA/UNC)

Title: Evaluating the Interactions of the Social and Built Environments on Children's Active School and Neighborhood Travel

Role: Co-PI (4%)

PROFESSIONAL SERVICE

To Discipline

Co-Chair, National Academy of Sciences, Transportation Research Board Committee on Economics and Land Use (2021-)

Editorial Board, *Journal of the American Planning Association* (2020-)

Council of University Transportation Centers

Vice-President (2022-2023), Secretary (2021-2022), Treasurer (2020-2021) Executive Board (2019-2020)

Outreach and Engagement Task Force, American Collegiate Schools of Planning (2019-20)

Editorial Board, *Transportation Research Part A: Policy and Practice* (2008-2018)

Vice Chair, Transportation Research Board, Travel and Land Development Committee (2016-20)

Transportation & Infrastructure Track Chair, American Collegiate Schools of Planning (2014-2017)

Paper Review Coordinator, Transportation Research Board, Travel and Land Development Committee (2013-2017)

Committee/Panel Member:

Transportation Research Board Committee on Economics and Land Use (2020-)
Transportation Research Board Committee on Travel and Land Development (2012-2020)
Transportation Research Board Committee on Women's Travel Issues (2007-2016)
Transportation Research Board Sub-committee on School Transportation (2006-)
Active Living Research Conference Organizing Committee (2011, 2017, 2018)
Institute of Transportation Engineers/Robert Wood Johnson Foundation Technical Advisory Committee to Reduce Childhood Obesity (2010-2011)
Centers for Disease Control Expert Panel on Community Surveillance (2010)
National Center for Safe Routes to School's Expert Review Panel & Organizing Committee (2010)

Grant Reviewer:

Swiss National Science Foundation (2016); Sustainable Transportation Center, UC Davis (2009, 2011, 2016); University of California Transportation Center (2008-2010, 2012); Center for Multimodal Solutions, University of Florida (2011); State and Local Policy Program, Humphrey Institute, University of Minnesota (2006-2010), UK Medical Research Council (2022)

Manuscript Reviewer:

Planning/Transportation/General: *Advances in Transportation Studies* (2011), *Children, Youth and Environments* (2011), *Environment and Planning A* (2011, 2015, 2016), *Housing Policy Debate* (2015-2016), *International Journal of Health Geography* (2015), *International Journal of Sustainable Transportation* (2013, 2017, 2018), *Journal of the American Planning Association* (2007, 2009, 2013-2024), *Journal of Environmental Planning & Policy* (2012-2013), *Journal of Planning Education and Research* (2009-2020), *Journal of Planning Literature* (2010, 2016), *Journal of Transport & Health* (2013, 2015, 2019), *Journal of Transport Geography* (2009-2010, 2012-2018, 2023), *Journal of Transportation and Land Use* (2014-15), *Journal of Urban Affairs* (2009), *Journal of Urban and Regional Information Systems Association* (2011), *Journal of Urbanism* (2014), *Landscape Journal* (2012), *Planning Theory and Practice* (2011), *Proceedings of the National Academy of Science* (2021), *Town Planning Review* (2011), *Transport Policy* (2008, 2010-2017, 2022, 2023), *Transportation Research Board* (2006-2014), *Transportation Research A* (2008, 2014-2022), *Transportation Research D* (2015, 2023), *Transportation Research F* (2018, 2020), *Transportation* (2008, 2009, 2011, 2014, 2016- 2019, 2023), *Urban Studies* (2011-2012)

Health: *American Journal of Preventive Medicine* (2007-2013, 2016, 2018), *American Journal of Public Health* (2019), *Annals of Behavioral Medicine* (2012), *Archives of Pediatrics & Adolescent Medicine* (2008), *BMC Public Health* (2011, 2015), *BMJ Open* (2016), *CMAJ Open* (Canadian Medical Association) (2020), *Environment and Behavior* (2011, 2013), *Health & Place* (2011), *Health Education Journal* (2013,2106), *International Journal of Behavioral Nutrition and Physical Activity* (2010-2012), *Journal of Transportation & Health* (2014, 2018-2021), *Journal of Physical Activity and Health* (2007, 2009-2012, 2014-16, 2021), *Journal of Science and Medicine in Sport* (2012), *Journal of Urban Health* (2009), *Milbank Quarterly* (2023), *Pediatric Exercise Science* (2011), *Pediatrics* (2013), *Preventing Chronic Disease* (2010), *Preventive Medicine* (2007, 2009-2013, 2016), *Social Science & Medicine* (2009, 2011)

To Public

Media:

- November 8, 2021, CBS-17, [NC Set to Get \\$457 million for Bridge Repairs and Replacement](#)
- September 2021, [ITE Podcast](#), Evolution of Urban Form and Function.
- June 8, 2021, WCNC – NBC, Charlotte. [Verify: Are Charlotte Streets Disorganized?](#)
- April 15, 2021, theSkimm, “[Infrastructure](#)” @18:43.
- December 16, 2020. News & Observer. [How has COVID affected NC home sales? Police stops? This new dashboard lets you know.](#)
- December 9, 2020. CBS-17. [UNC Researchers Launch Website Aimed at Providing Snapshot of Life During Pandemic](#) (Opening segment on CBS 17 11pm news)
- July 24, 2020, State of Things, WUNC, “[How is NC Transit Adapting to Budget Cuts and COVID-19?](#)”
- February 9, 2017, UPI.com, “[Fewer roadway fatalities tied to less driving.](#)”
- July 15, 2014. Huffington Post. “[Today’s Young Adults are Up to 50 Percent More Likely to Avoid Driving Than Past Generations](#)”
- July 13, 2015. Citylab (Eric Jaffe). “[The Clearest Explanation Yet for Why Millennials are Driving Less](#)”
- October 22, 2014, StreetsblogUSA, “[Study: Safe Routes to School Programs Boost Walking and Biking 30%.](#)”
- April 8, 2010. St. Louis Post-Dispatch, “[Getting Kids to Walk to School](#)”
- September 13, 2009. New York Times. “[The Walk-to-School Fight.](#)”
- November 18, 2009. Washington Post. “[To Save Money, Fairfax Schools may Change Bus Boundaries.](#)”

Webinars (since 2019):

- 2022 (April) The Relationship Between Freight Movements and Land Use in Urban Areas (with Anne Goodchild). Hosted by [ITE](#).
- 2021 (November) STRIDE Products Showcase. Available through [STRIDE](#).
- 2021 (June) Transportation’s Critical Role in the COVID-19 Vaccine Rollout. With Abigail Cochran, Mary Wolfe, Kai Monast, Ryan Brumfield. Available through [STRIDE](#).
- 2021 (June) Transportation to Health Care and COVID-19: Exploring Pandemic-Era Travel Trends and Post-Pandemic Challenges and Opportunities. With Abigail Cochran, Lindsay Oluyede, Olivia Wang, Edward Fishman, Herb Mullen. Available through [STRIDE](#).
- 2021 (January). Making Data-Informed Decisions for Economic Recovery from COVID-19: Carolina Tracker.
2020. Planning for Urban Freight Delivery: How Do City Codes Accommodate Freight? With Charles Edwards. Available through [STRIDE](#).
2019. Innovation in Access to Healthcare: Understanding Transport Barriers. With Mary Wolfe. Available through [STRIDE](#).