

NOREEN C. McDONALD

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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		
	Thomas Willis Lambeth Distinguished Chair in Public Policy	2018-
	Professor, Department of City & Regional Planning	2017-
	Associate Professor, Department of City & Regional Planning	2012-2017
	Faculty Fellow, Center for Urban and Regional Studies	2007-
	Assistant Professor, Department of City & Regional Planning	2007-2012
University of Leeds, Institute for Transport Studies		
	Visiting Professor (courtesy)	2016-
	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 Assistant, UC, Berkeley, Institute of Transportation Studies	2000-2004
	Teaching Assistant, UC, Berkeley, Departments of City & Regional 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, New York, NY	1995-1998

ADMINISTRATIVE EXPERIENCE

	Chair, Department of City & Regional Planning	2016-
	Member, Advisory Board: Environment, Energy, and Ecology Program	2018-
	Associate Director, Collaborative Sciences Center for Road Safety	2016-
	Associate Director, Southeastern Transportation Research, Innovation, Development and Education Center	2016-
	Director, Carolina Transportation Program	2014-2015, 2016-
	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

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

Combs, T., L. Sandt, M. Clamann, N. McDonald. In Press. Automated Vehicles and Pedestrian Safety: Exploring the Promise and Limits of Pedestrian Detection. *American Journal of Preventive Medicine*.

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., 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 CONFERENCE PROCEEDINGS

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.

INVITED PRESENTATIONS

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

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: Eugen, 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. and W.M. Palmer. 2017. Evaluating the Relationship Between School Site Selection, Residential Developments and School Transportation in North Carolina.

McDonald, N. R. Steiner, W.M. Palmer. 2017 Practitioner Workshop on School Siting and School Transportation Impacts.

McDonald, N., R. Steiner, W.M. Palmer. 2016. School Transportation: Development of an Education Module and Workshops on Multi-modal Costs. 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. Available at: http://www.stride.ce.ufl.edu/uploads/docs/STRIDE_QSTC_FinalReport2015_Main.pdf

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 2017:

Spring 2017: 23 students; 4.6/5

Fall 2014: 31 students, 4.3/5

Fall 2013: 32 students, 4.2/5

Fall 2012: 25 students, 4.0/5
Fall 2011: 22 students, 4.0/5
Fall 2010: 16 students, 4.6/5
Spring 2009: 28 students, 4.2/5

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 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
Fall 2010: Section 1, 20 students; Section 2: 10 students, 3.6/5
Fall 2009: Section 1, 18 students Section 2, 11 students, 4.1/5
Fall 2008: Section 1, 24 students Section 2, 26 students, 3.8/5
Fall 2007: 50 students, 3.9/5

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 2018: 6 students;

Plan 823: Transportation and Land Use Workshop

This required capstone courses provides students with real-world planning experience.

Spring 2014: 6 students: Bike Planning at UNC Chapel Hill
Spring 2013: 6 students: Housing & Transportation Affordability in Carrboro
Spring 2012: 6 students: Transportation Access to Healthcare in Durham
Spring 2009: 7 students: Transit Service & Development Challenges in Science Parks: The Case of RTP
Spring 2008: 7 students: Creating Walking Maps for Schools

Doctoral Student Advisees

Kai Monast, 2017-present
Mathew Palmer, 2012-present
Mary Wolfe, 2014 -present

Doctoral Committees

Member of Program Committee: 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)

Member of Comprehensive Exam Committee: 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)

Member of Dissertation Committee:

- 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* [Assistant Professor, University of Illinois, Urbana-Champaign]
- Gwen Kash, 2018, *Understanding User Needs in Latin American Transit Reform* [Visiting Scholar, University of North Carolina at Chapel Hill]
- David Fuente, 2017 *Water Pricing and Tariff Reform: The Case of Nairobi, Kenya* [Assistant Professor, University of South Carolina]
- Lilah Besser, 2017, *Neighborhood Measures of the Built Environment and Cognition* [Assistant Professor, 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* [Academic Coach, The Learning Center, University of North Carolina at Chapel Hill]
- Louis Merlin, 2014, *Benefits of Regional and Local Accessibility for Households* [Assistant Professor 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* [Research Associate, University of North Carolina at Chapel Hill]
- Gihyoung Cho, 2011, *Location or Design? Association between Neighborhood Location, Built Environment, Preference toward Neighborhood and Behaviors* [Assistant Professor, Ulsan National Institute of Science and Technology, Korea]

Master's Projects Supervised

- Lisa Fiedler, MCRP 2018, *Recognizing Resegregation: the Divisive Intent and Implications of School District Transportation Policies*
- Sarah Johnson, MCRP/MLA 2019, *Midblock in Focus: A Case Study Application of the FHWA Systematic Safety Project Selection Tool in Raleigh, North Carolina*
- 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*
- 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*
- Alyson West, MCRP 2018, *Women Cycling Survey: Analyzing and Communicating Survey Data via Tableau and Wordpress*, [Highway Safety Research Center]
- Erin Convery, MCRP 2017, *Economic Impacts of Multi-Use Trails: Commercial Growth in Ohio Trail Corridors* [Alta Planning, formerly Stantec]
- Taylor McAdam, MCRP 2017, *Shared Private Transit: An Exploration of Existing US Services and Trends* [Fehr & Peers]
- Joseph Seymour, MCRP 2017, *An Analysis of Virginia's Moped Safety and Registration Law on Operator Collision Rates and Injury Outcomes* [VHB]

- Jesse Cohn, MCRP 2015, *Who Uses this Facility and Why? Developing Survey Tools to Implement the Trail Modeling and Assessment Protocol* [Fehr & Peers]
- Steven Keith, MCRP 2015, *Understanding the Relationship between Ridership and the Built Environment Surrounding Transit Stations* [Fehr & Peers]
- Melanie Morgan, MCRP 2015, *Demographic Change Near Rail Stations* [City of Centennial, CO Innovation Team]
- William High, MCRP 2014, *North Carolina's Distressed Urban Tracts: A Look at the States's Economically Disadvantaged Communities* [Nelson/Nygaard, formerly Consultant for World Bank]
- Haoting Hu, MCRP 2014, *Impact of the Built Environment on Teen Walking Behavior: Taking San Diego and Minneapolis Girls as an Example* [Ingram Micro]
- Ann McGrane, MCRP 2014, *Evaluating Journey-to-Work Transit Accessibility in Tyson's Corner, VA* [New York City Department of Transportation, formerly Port Authority of New York & New Jersey]
- John Perry, MCRP 2014, *Measuring the Accuracy of Bus Rapid Transit Forecasts: An Analysis of Cost and Ridership Estimates for Bus Rapid Transit Projects*
- Nathan Jake Thirsk, MCRP 2014, *Regional and Airport Planning Components of the Aerotropolis* [Highway Safety Research Center]
- Allison Bullock, MCRP 2013, *Sweat Equity: Evaluating the Spatial Equity of the Capital Bikeshare System in Washington, DC* [New York City Department of Transportation; formerly Alta Planning + Design]
- Monisha Khurana, MCRP 2013, *Opportunities for Freight Oriented Development in Durham County, North Carolina* [AECOM, formerly CDM Smith]
- Carly Sieff, MCRP 2013, *A Bicycle Incident Response Pilot Project for San Francisco* [Fehr & Peers]
- Jennifer Slesinger, MCRP 2013, *Current Parking Standards and Potential Parking Policies at North Carolina State University* [Massachusetts Department of Transportation]
- Brennan Bouma, MCRP 2012, *Electric Vehicle Implementation Planning in the Triangle Region* [Orange County, formerly Triangle J Council of Governments]
- Harley Cooper, MCRP 2012, *Car Sharing Participation and Shifts in Alternative Transportation Modes; An Analysis of I-GO Car Sharing in Chicago, IL* [SEPTA, formerly FourSquare]
- David Daddio, MCRP 2012, *Maximizing Bicycle Sharing: An Empirical Analysis of Capital Bikeshare Usage* [Volpe Transportation Research Center]
- Amanda Mansfield, MCRP 2012, *Encouraging VMT-Reduction: Community Characteristics and Planning Process Characteristics That Increase VMT-Reduction Receptivity* [Spokane Regional Transportation Council, formerly City of Albany Planning Department]
- Harry Johnson, MCRP 2011, *Who Pays for the "Good Roads" State? The Impacts of New and Existing Transportation Taxes on North Carolina Drivers* [Cypress Creek Renewables, formerly Keyes, Fox & Wiedman]
- Pinaki Santra, MCRP 2011, *Chatham County Bicycle Plan* [Clarity Insights]
- Bergen Watterson, MCRP 2011, *Transportation Demand Management on UNC's Campus: Evaluation, Best Practices and Recommendations for Reducing Single-Occupancy Vehicle Use* [Town of Chapel Hill, formerly Town of Carrboro]
- Jon Dees, MCRP 2010, *Profitability and Contribution to Alternate Travel Modes in New US Value Pricing Projects* [North Carolina Department of Transportation]
- Amanda Dwelley, MCRP 2010, *Association Between the Built Environment, Parental Perceptions and Children's Neighborhood Travel: An Exploration of Independent Mobility Licenses of Hispanic Children in the San Francisco Bay Area* [ILLUME Advising]

- Andrew Spiliotis, MCRP 2009, *Examining the High Capacity Transit Potential of the NC-54 Corridor* [Central Massachusetts Regional Planning Commission, formerly Planning Communities]
- Michael Callahan, MCRP 2009, *A Comparative Case Study of Local Option Transportation Taxes in Albuquerque, New Mexico and Charlotte, North Carolina* [Renaissance Planning Group]
- Jeffery Brubaker, MCRP 2009, *Climate Change Impact Assessment for Individual Developments: Evaluating Transportation's Contribution* [San Luis Obispo Council of Governments, formerly Town of Carrboro]
- Julie Bjornstad, MCRP 2008, *Putting the R in HART: A Light Rail Plan for Tampa* [Wasatch Front Regional Council, formerly Fehr & Peers]
- Caitlin Boon, MCRP 2008, *Kiss and Cries: Understanding the Link Between Child Care Locations And Transit Use* [Transportation Management Services]
- Chava Kronenberg, MCRP 2008, *Effect of Social and Built Environment on Adult Travel Behavior in Alameda County, California* [San Francisco Municipal Transportation Agency]

GRANTS (ALL AMOUNTS ARE DIRECT)

US Department of Transportation
 12/2016-11/2020
 Title: Collaborative Sciences Center for Road Safety
 Role: Co-PI (10%)

PI: Harkey
 \$2.149 M/yr for 5 years

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

PI: McDonald (10%)
 \$300,000/yr for 5 years

US Department of Transportation
 1/17-12/17
 Title: UNC Transportation Center

PI: McDonald
 \$27,232

US Department of Transportation
 5/17-5/18
 Title: Transit in the Era of Shared Mobility

PI: McDonald
 \$77,441 (5%)

US Department of Transportation
 5/17-5/18
 Title: Predicting Congestion: The Challenge of Shifting Travel Behavior on Estimating Trip Generation

PI: McDonald
 \$76,541 (5%)

US Department of Transportation
 5/17-5/18
 Title: Technology Influence on Travel Demand and Behaviors

PI: McDonald (3%)
 \$27,441

US Department of Transportation
 Title: The Role of Children's Independent Mobility

PI: McDonald (0%)
 \$5,000

STRIDE: Southeastern Transportation Research, Innovation Devt and Educ Ctr
 6/16-12/16
 Title: Practitioner Workshop on School Siting and School Transportation Impacts

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

STRIDE: Southeastern Transportation Research, Innovation Devt and Educ Ctr PI: McDonald (3%)
6/16-12/16 \$23,300 (\$6,432 UNC)
Title: Evaluating the Relationship Between School Site Selection, Residential Developments and
School Transportation in North Carolina

Environmental Protection Agency PI: Arunachalam
10/15-9/16 \$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 PI: Weigand, Portland State
10/09-9/10 \$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 PI: McDonald (10%)
7/09-6/10 \$60,309
Title: Linking Research on Children's Active Travel to Parent Education for Safe Routes to School Programs

UNC Junior Faculty Development Award PI: McDonald (0%)
1/09-12/09 \$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 PI: McDonald (3%)
1/09-12/09 \$46,283
Title: The Equity of Safe Route to School Investments

Oregon Transportation Research and Education Consortium PI: Schlossberg, Univ of Oregon
10/08-9/09 \$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 PI: Deakin, UC Berkeley
7/05-6/08 \$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

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

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

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

Committee/Panel Member:

Transportation Research Board Committee on Travel and Land Development (2012-)
Transportation Research Board Sub-committee on School Transportation (2006-)
Active Living Research Conference Organizing Committee (2011)
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)
Transportation Research Board Committee on Women's Travel Issues (2007-2016)

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),

Manuscript Reviewer:

Planning/Transportation: *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), *Journal of the American Planning Association* (2007, 2009, 2013-2016), *Journal of Environmental Planning & Policy* (2012-2013), *Journal of Planning Education and Research* (2009-2017), *Journal of Planning Literature* (2010, 2016), *Journal of Transport & Health* (2013, 2015), *Journal of Transport Geography* (2009-2010, 2012-2018), *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), *Town Planning Review* (2011), *Transport Policy* (2008, 2010-2017), *Transportation Research Board* (2006-2014), *Transportation Research A* (2008, 2014-2018), *Transportation Research D* (2015), *Transportation Research F* (2018), *Transportation* (2008, 2009, 2011, 2014, 2016, 2017), *Urban Studies* (2011-2012)

Health: *American Journal of Preventive Medicine* (2007-2013, 2016, 2018), *Annals of Behavioral Medicine* (2012), *Archives of Pediatrics & Adolescent Medicine* (2008), *BMC Public Health* (2011, 2015), *BMJ Open* (2016), *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), *Journal of Physical Activity and Health* (2007, 2009-2012, 2014-16), *Journal of Science and Medicine in Sport* (2012), *Journal of Urban Health* (2009), *Pediatric Exercise Science* (2011), *Pediatrics* (2013), *Preventing Chronic Disease* (2010), *Preventive Medicine* (2007, 2009-2013, 2016), *Social Science & Medicine* (2009, 2011)