

# CURRICULUM VITAE

(Updated April 2024)

**NAME:** Manish Shirgaokar (Ma-neesh Shir-gao-kar), Ph.D., AICP

**CAMPUS ADDRESS:** College of Architecture & Planning, University of Colorado Denver, Campus Box 126, PO Box 173364, Denver, CO 80217-3364

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*Research Areas:* Social equity; Technology; Travel behavior; People-Places-Mobility

*Geographies:* North America; South Asia

*Teaching Areas:* Transportation; Geographic Information Systems; Quantitative & Qualitative Methods

## EDUCATION

2012	PhD	City & Regional Planning, University of California, Berkeley
2002	MCP / M Arch	City & Regional Planning / Architecture, University of California, Berkeley
1997	B Arch	Architecture, Maharaja Sayajirao University, Baroda, India

## PROFESSIONAL EXPERIENCE

2023-present	Associate Professor (tenured), University of Colorado Denver, College of Architecture & Planning, Department of Urban & Regional Planning, Denver, CO
2019-2023	Assistant Professor (tenure-track), University of Colorado Denver, College of Architecture & Planning, Department of Urban & Regional Planning, Denver, CO
2014-2018	Assistant Professor (tenure-track), University of Alberta, Faculty of Science, School of Urban and Regional Planning, Edmonton, Alberta, Canada
2013	Research Data Analyst, University of California, Berkeley, Institute of Urban & Regional Development, Berkeley, CA
2013	Lecturer, University of California, Berkeley, College of Environmental Design, Department of City & Regional Planning, Berkeley, CA
2005-2007	Business Development Manager, Infrastructure Planning, Shirgaokar & Associates, Architects and Planners, Baroda, India
2003-2005	Research Specialist / Associate Development Engineer, University of California, Berkeley, Institute of Transportation Studies, Berkeley, CA
1997-1999	Assistant Architect, Infrastructure Planning, Shirgaokar & Associates, Architects and Planners, Baroda, India
1997-1998	Lecturer, Maharaja Sayajirao University, Faculty of Science and Technology, Department of Architecture, Baroda, India

## PEER REVIEWED JOURNAL PAPERS

Listed in reverse chronological order by date of acceptance

\* Co-author was a student when working on the research / *Italicized* co-author was a staff researcher

- 2023 Wagner, M.\*, **Shirgaokar, M.**, Marshall, W. Understanding everyday travel experiences and transportation infrastructure challenges of people with disabilities in Denver, CO. *Transportation Research Record*, 2678(2), 454-468. <https://doi.org/10.1177/03611981231174400>
- 2023 Akcicek, C. \*, Misra, A., **Shirgaokar, M.**, Marshall, W. How time inefficient and uncertain are paratransit trips compared to car trips. *Transportation Research Record*, 2678(1), 272-285. <https://doi.org/10.1177/03611981231170622>
- 2022 Misra, A., **Shirgaokar, M.**, Agrawal, A., Dobbs, B., Wachs, M. How older adults use ride-hailing booking technology in California. *Transportation Research Part A: Policy and Practice*, 155, 11–30. <https://doi.org/10.1016/j.tra.2021.10.022>
- 2021 **Shirgaokar, M.**, Reynard, D., Collins, D. Using Twitter to investigate responses to street reallocation during COVID-19: Findings from the U.S. and Canada. *Transportation Research Part A: Policy and Practice*, 154, 300–312. <https://doi.org/10.1016/j.tra.2021.10.013>
- 2021 **Shirgaokar, M.**, Nobler, E.\* Differences in daily trips between immigrants and US-born individuals: Implications for social integration. *Transport Policy*, 105, 103-114. <https://doi.org/10.1016/j.tranpol.2021.03.008>
- 2021 **Shirgaokar, M.**, Misra, A., Agrawal, A., Wachs, M., and Dobbs, B. Differences in ride-hailing adoption by older Californians among types of locations. *Journal of Transport and Land Use*, 14(1), 367-387. <https://doi.org/10.5198/jtlu.2021.1827>
- 2021 Reynard, D.\*, Collins, D., and **Shirgaokar, M.** Growth over resilience: How Canadian municipalities frame the challenge of reducing carbon emissions. *Local Environment*, 26(4), 448-460. <https://doi.org/10.1080/13549839.2021.1892046>
- 2020 **Shirgaokar, M.**, Dobbs, B., Anderson, L.\*, and *Hussey, E.* Do rural older adults take fewer trips than their urban counterparts for lack of a ride? *Journal of Transport Geography*, 87, 102819-1-12. <http://www.sciencedirect.com/science/article/pii/S0966692318305532>
- 2019 Chen, Y.\*, Bouferguene, A., **Shirgaokar, M.**, and Al-Hussein, M. Spatial analysis framework for age-restricted communities integrating spatial distribution and accessibility evaluation. *Journal of Urban Planning and Development*, 146(1), 04019021-1-15. <http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29UP.1943-5444.0000537>
- 2019 Cabral, L.\*, Kim, A., and **Shirgaokar, M.** Low-stress bicycling connectivity: Assessment of the network build-out in Edmonton, Canada. *Case Studies on Transport Policy*, 7(2), 230-238. <http://www.sciencedirect.com/science/article/pii/S2213624X18302554>
- 2019 Reynard, D.\* and **Shirgaokar, M.** Harnessing the power of machine learning: Can Twitter data be useful in guiding resource allocation decisions during a natural disaster? *Transportation Research Part D: Transport and Environment*, 77, 449-463. <http://www.sciencedirect.com/science/article/pii/S1361920918308113>
- 2019 **Shirgaokar, M.** and Lanyi-Bennett, K.\* I'll have to drive there: How daily time constraints impact women's car use differently than men's. *Transportation*, 47, 1365-1392. <https://doi.org/10.1007/s11116-018-9969-1>
- 2018 **Shirgaokar, M.** Operationalizing gendered transportation preferences: A psychological framework incorporating time constraints and risk aversion. *Transport Policy*, 75, 10-18. <http://www.sciencedirect.com/science/article/pii/S0967070X17308235>
- 2018 **Shirgaokar, M.** Expanding seniors' mobility through phone apps: Potential responses from the private and public sectors. *Journal of Planning Education and Research*, 40(4), 405-415. <https://doi.org/10.1177/0739456X18769133>

- 2017 **Shirgaokar, M.** and Rumbach, A. Investigating housing tenures beyond homeownership: A study of informal settlements in Kolkata, India. *Housing Studies*, 33(1), 117-139. <https://doi.org/10.1080/02673037.2017.1344955>
- 2017 **Shirgaokar, M.** and Khandker, H. How does the inclination to bicycle sway the decision to ride in warm and winter seasons? *International Journal of Sustainable Transportation*, 12(6), 397-406. <https://doi.org/10.1080/15568318.2017.1378779>
- 2016 Rivadeneyra, A.\*, **Shirgaokar, M.**, Deakin, E., and Riggs, W. Building more parking at major employment centers: Can full-cost recovery parking charges fund TDM programs? *Case Studies on Transport Policy*, 5(1), 159-167. <http://www.sciencedirect.com/science/article/pii/S2213624X16300669>
- 2016 Rumbach, A. and **Shirgaokar, M.** Predictors of household exposure to monsoon rain hazards in informal settlements in Kolkata, India. *Natural Hazards*, 85, 709-728. <http://link.springer.com/article/10.1007/s11069-016-2599-z>
- 2015 **Shirgaokar, M.** Expanding cities and vehicle use in India: Differing impacts of built environment factors on scooter and car use in Mumbai. *Urban Studies*, 53(15), 3296-3316. <http://journals.sagepub.com/doi/abs/10.1177/0042098015608050>
- 2014 **Shirgaokar, M.** Employment centers and travel behavior: Exploring the work commute of Mumbai's rapidly motorizing middle class. *Journal of Transport Geography*, 41, 249-258. <http://www.sciencedirect.com/science/article/pii/S0966692314002178>
- 2013 **Shirgaokar, M.**, Deakin, E., and Duduta, N. Integrating building energy efficiency with land use and transportation planning in Jinan, China. *Energies*, 6(2), 646-661. <http://www.mdpi.com/1996-1073/6/2/646>
- 2006 Deakin, E., **Shirgaokar, M.**, Nuworsoo, C., Golub, A., Finney, J., Lew, W., Frank, B., Cherry, C., Higgins, N., Rubin, E., Valentin, T., Parks, K., Ng, W., and Wong, D. System plan for California's Bay Area regional express bus service. *Transportation Research Record*, 1986, 190-197. <http://dx.doi.org/10.3141/1986-25>
- 2005 **Shirgaokar, M.** and Deakin, E. Study of park-and-ride facilities and their use in the San Francisco Bay Area of California. *Transportation Research Record*, 1927, 46-54. <http://dx.doi.org/10.3141/1927-06>

## PEER REVIEWED BOOK REVIEWS

- 2021 **Shirgaokar, M.** Basic quantitative research methods for urban planners (Book Review). *Journal of the American Planning Association* 87, 307-308. <https://doi.org/10.1080/01944363.2021.1885276>

## OTHER PEER REVIEWED OUTPUT

- 2023 Melorango, S.\*, **Shirgaokar, M.** Supplying efficient and effective bus service in the U.S.: Impacts of varying expenditures across small and big agencies, <https://osf.io/ub5zp>
- 2020 Agrawal, A., **Shirgaokar, M.**, Misra, A., Wachs, M., Dobbs, B. Will ride-hailing enhance mobility for older adults? A California survey (No. 20-30). Mineta Transportation Institute, San Jose, CA. <https://transweb.sjsu.edu/research/1815-Ride-hailing-Mobility-Older-Adults-California>
- 2013 **Shirgaokar, M.** Limitations of the anti-floor space index position, *Economic & Political Weekly (EPW)*, 48(29), 123-125. [https://www.researchgate.net/publication/289072514\\_Limitations\\_of\\_the\\_anti-floor\\_space\\_index\\_position](https://www.researchgate.net/publication/289072514_Limitations_of_the_anti-floor_space_index_position)
- 2012 **Shirgaokar, M.** The rapid rise of middle-class vehicle ownership in Mumbai, University of California, Berkeley. Doctoral dissertation. Committee: Elizabeth Deakin (Chair), Robert Cervero, Joan Walker. <https://escholarship.org/uc/item/84v2140d#main>
- 2002 **Shirgaokar, M.** *Living at the International House*, Berkeley, University of California, Berkeley. Master's research thesis. Committee: Galen Cranz (Chair), Clare Cooper Marcus, Renee Chow, Kenneth Craik. [https://search.library.berkeley.edu/discovery/fulldisplay?docid=alma991038522899706532&context=L&vid=01UCS\\_BER:UCB&lang=en&search\\_scope=DN\\_and\\_CI&adaptor=Local%20Search%20](https://search.library.berkeley.edu/discovery/fulldisplay?docid=alma991038522899706532&context=L&vid=01UCS_BER:UCB&lang=en&search_scope=DN_and_CI&adaptor=Local%20Search%20)

### **EXTERNAL GRANTS AND CONTRACTS AWARDED (2014-Present)**

- 2023-24 Understanding Transit User Experience and Expectations in Under-served Communities. Center for Equitable Transit Oriented Communities (CETOC), Tier 1 University Transportation Centers, US Dept. of Transportation. **PI** (\$225,000) <https://www.uno.edu/media/35331>
- 2023-26 e-VIBES: Electric Vehicle Integration to power infrastructure by Behavioral, Economic and Sociotechnical modeling. National Science Foundation – Strengthening American Infrastructure, Directorate for Social, Behavioral, and Economic (SBE) Sciences. **Co-PI** (\$750,000) [https://www.nsf.gov/awardsearch/showAward?AWD\\_ID=2324421&HistoricalAwards=false](https://www.nsf.gov/awardsearch/showAward?AWD_ID=2324421&HistoricalAwards=false)
- 2021-24 Understanding paratransit: Examining time inefficiencies and the efficacy of alternative modes for persons with disability. Mountain Plains Consortium, Region 8, NDSU Upper Great Plains Transportation Institute. **PI** (\$200,000) <https://www.mountain-plains.org/research/details.php?id=573>
- 2020-23 Learning from the travel experiences of persons with disabilities: Investigating navigation challenges posed by infrastructure. Mountain Plains Consortium, Region 8, NDSU Upper Great Plains Transportation Institute. **PI** (\$120,000) <https://www.mountain-plains.org/research/details.php?id=511>
- 2018-20 Will ride-hailing enhance mobility for older adults? A California Survey. Mineta Transportation Institute, San Jose State University, San Jose, CA. **Co-PI** (\$73,428) <https://transweb.sjsu.edu/mctm/research/utc/Will-Ride-Hailing-Enhance-Mobility-Older-Adults-California-Survey>
- 2015-16 Social sustainability in transit: Policy guidance for Edmonton Transit System. City of Edmonton, Transit Planning. **PI** (CAD \$6,000)

### **INTERNAL GRANTS AND CONTRACTS AWARDED (2014-Present)**

- 2022-23 Infrastructure Informatics: Toward Establishing a Research Center for Preventive, Predictive, and Prescriptive Design, Maintenance and Management of Civil Infrastructures using AI/Data Science. Office of Research Services, University of Colorado Denver. **Co-PI** (\$275,000)
- 2022-23 Investigating downstream impacts of urban renewal on housing: What cycles of change do transportation-adjacent communities experience? EVOLVE Seed Grant, College of Architecture & Planning. **PI** (\$10,000) <https://news.ucdenver.edu/six-projects-awarded-evolve-seed-grants/>
- 2021-22 Young Upwardly Mobile Professors fund. Center for Faculty Development, Univ. of Colorado Denver. (\$500)
- 2020-21 Learning from the travel experiences of persons with disabilities: Investigating navigation challenges posed by infrastructure. EVOLVE Seed Grant, College of Architecture & Planning. **PI** (\$10,000)
- 2020-21 Learning from the travel experiences of Persons with Disabilities: Investigating navigation challenges posed by infrastructure. Presidential Initiative on Urban and Place-Based Research,

- University of Colorado Denver. **PI** (\$20,000) <https://news.ucdenver.edu/winners-of-presidential-initiative-grants-for-urban-and-place-based-research-named/>
- 2019-20 Young Upwardly Mobile Professors fund. Center for Faculty Development, Univ. of Colorado Denver. (\$500)
- 2019-20 Travel behavior of socio-economically disadvantaged populations in the US. College of Architecture & Planning, University of Colorado Denver. **PI** (\$12,500)
- 2014-16 Seniors and ridesharing: Investigating barriers to using ride-hailing. Faculty of Science, University of Alberta. **PI** (C\$68,500)

## NON-PEER REVIEWED PUBLICATIONS

- 2024 Students from URPL 6560 (Fall 2023) supervised by **Shirgaokar, M.** Exploring policy alternatives for reducing single-occupancy vehicle use among Denver International Airport's Employees, report submitted to the client Denver Airport, CO
- 2022 Schorn, T.\* and **Shirgaokar, M.** State of Equity, Diversity, and Inclusion (EDI) within the planning profession, report submitted to the American Planning Association, Colorado Chapter
- 2016 Bennett, K.\* and **Shirgaokar, M.** Social sustainability of public transit: An overview of the literature and findings from expert interviews, report submitted to Transit Strategy, Transportation Planning, City of Edmonton
- 2014 Deakin, E., Rivadeneyra, A.\*, **Shirgaokar, M.**, and Riggs, W. Parking innovations in the City of Berkeley: Evaluation of the goBerkeley program, report submitted to the City of Berkeley, California
- 2013 Deakin, E., Miller, R.\*, Pincus-Roth, E.\*, Wickland, T.\*, Sen, A.\*, **Shirgaokar, M.**, Liu, Q.\*, and Riggs, W. Campus parking demand: Results from baseline data collection and analysis, report submitted to the University of California, Berkeley
- 2010 Deakin, E., Duduta, N., **Shirgaokar, M.**, and Tal, G. Transit-oriented development (TOD) design proposals for Fresno, report submitted to the California High Speed Rail Authority
- 2008 Deakin, E., Duduta, N., **Shirgaokar, M.**, Kanagy, M., Nuworsoo, C., Petty, S., Stonehill, L., Rubin, J., Frick, K., Yeaman, J., Mourroux, M., Ko, Y., and Patwa, S. Transit oriented development for High-Speed Rail (HSR) in the Central Valley, California: Design concepts for Stockton and Merced, report submitted to the California High Speed Rail Authority
- 2005 Deakin, E., **Shirgaokar, M.**, Nuworsoo, C., Golub, A., Finney, J., Lew, W., Frank, B., Cherry, C., Higgins, N., Rubin, E., Valentin, T., Parks, K., Ng, W., and Wong, D. System plan for California's Bay Area regional express bus service, report submitted to Department of Transportation, California, District 4
- 2001 **Shirgaokar, M.** and Deakin, E. California housing trends: Implications for transportation planning, University of California Transportation Center. <https://escholarship.org/uc/item/5q87h87h>
- 2001 Deakin, E., Thomas, J., Ferrell, C., Wei, K., **Shirgaokar, M.**, Kim, S., Mason, J., Scott, L., and Sood, V. Twelve trends for consideration in California's transportation plan, University of California Transportation Center. <https://escholarship.org/uc/item/29r3w4r6>
- 1998 **Shirgaokar, M.** Center for creative arts, North Maharashtra University, Jalgaon, *Journal of the Indian Institute of Architects*, Volume 63, Issue 01

## PEER REVIEWED PRESENTATIONS AT MEETINGS/CONFERENCES (Full paper refereed)

Listed in reverse chronological order by date of presentation

- 2024 Un-driving climate change: The benefits of an e-bike rebate program, with Misra, A., Henderson, A.\*, and Marshall, W., presented at the 103rd Annual Meeting of the Transportation Research Board, Washington, D.C., January 9, 2024
- 2024 What can organizations and practitioners do to improve ADA implementation for infrastructure design and supply? with Wagner, M.\*, Misra, A., and Marshall, W., presented at the 103rd Annual

- Meeting of the Transportation Research Board, Washington, D.C., January 8, 2024
- 2024 Estimating uncertainty and misery (index) of the paratransit experience, with Misra, A., Marshall, W., and O’Sullivan, L\*, presented at the 103rd Annual Meeting of the Transportation Research Board, Washington, D.C., January 8, 2024
- 2023 Investigating shifting paratransit demand by time-of-day and location to improve service, with Misra, A., Akcicek, C.\*, and Marshall, W., presented at the 102nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 10, 2023
- 2023 Is ADA Effective? An assessment based on everyday travel experiences and transportation infrastructure challenges, with Wagner, M.\* and Marshall, W., presented at the 102nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 10, 2023
- 2023 How time inefficient and uncertain are paratransit trips compared to car trips, with Akcicek, C.\*, Misra, A., and Marshall, W., presented at the 102nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 10, 2023
- 2022 Determinants of efficient and effective bus service: What can U.S. transit agencies do better?, with Melorango, S.\*, presented at the 101st Annual Meeting of the Transportation Research Board, Washington, D.C., January 11, 2022
- 2021 Re-imagining streets as public open space in the US and Canada: Opinions from a COVID-19 Twitter corpus, with Reynard, D. and Collins, D., presented at the 100th Annual Meeting of the Transportation Research Board, virtual conference, January 28, 2021
- 2021 What can U.S. travel data tell planners about opening the economy during COVID-19?, with Misra, A., Nobler, E.\*, and Muresan, D.\*, presented at the 100th Annual Meeting of the Transportation Research Board, virtual conference, January 28, 2021
- 2021 The use of ride-hailing booking technology by older adults in California, with Misra, A., Agrawal, A., Dobbs, B., and Wachs, M., presented at the 100th Annual Meeting of the Transportation Research Board, virtual conference, January 26, 2021
- 2020 Chasing the American dream: How everyday travel plays a role in immigrants’ integration into society, with Nobler, E.\*, presented at the 99th Annual Meeting of the Transportation Research Board, Washington, D.C., January 14, 2020
- 2019 Low-stress bicycling connectivity: Assessment of the network build-out in Edmonton, Canada, with Cabral, L.\* and Kim, A., presented at the 98th Annual Meeting of the Transportation Research Board, Washington, D.C., January 16, 2019
- 2019 Harnessing the power of natural language processing: Is Twitter data useful for designing policies in a disaster event? with Reynard, D.\*, presented at the 98th Annual Meeting of the Transportation Research Board, Washington, D.C., January 14, 2019
- 2019 Older adults’ reliance on family and friends for essential, social, and non-emergency medical trips: Gendered transportation policy implications, with Dobbs, B., Anderson, L.\*, and *Hussey, E.*, presented at the 98th Annual Meeting of the Transportation Research Board, Washington, D.C., January 14, 2019
- 2018 A socio-psychological framework to operationalize gender-based transportation preferences: Incorporating time budgets and risk averseness, presented at the 97th Annual Meeting of the Transportation Research Board, Washington, D.C., January 9, 2018
- 2018 Finding support for green transportation taxes: Should we look for supportive places or supportive people? with Agrawal, A. and Nixon, H., presented at the 97th Annual Meeting of the Transportation Research Board, Washington, D.C., January 8, 2018
- 2017 Riding LRT or taking the bus? Examining variation in social equity within the transit market across a city geography, presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 10, 2017
- 2017 Which barriers prevent seniors from accessing Transportation Network Company (TNC) services? Identifying ways forward for a gendered policy approach, presented at the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., January 10, 2017
- 2016 Variations in household exposure to flood hazards in informal settlements: A study of Kolkata, India,

- with Rumbach, A., presented at the 46th Annual Conference of the Urban Affairs Association, San Diego, March 17, 2016
- 2016 Exploring user perspectives to increase winter bicycling mode share in Edmonton, Canada, with Gillespie, D.\*, presented at the 95th Annual Meeting of the Transportation Research Board, Washington, D.C., January 12, 2016
- 2015 The cost versus price for parking spaces at major employment centers: Findings from UC Berkeley, with Rivadeneyra, A.\*, Deakin, E., and Riggs, W., presented at the 94th Annual Meeting of the Transportation Research Board, Washington, D.C., January 13, 2015
- 2013 Suburbanization of the Indian city: Impacts on car and two-wheeler use in Mumbai, presented at the 92nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 16, 2013
- 2013 Vehicle ownership in middle-class Indian households: Mobility in Mumbai, presented at the 92nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 14, 2013
- 2012 Employment centers and middle-class travel behavior: The case of Mumbai, presented at the 91st Annual Meeting of the Transportation Research Board, Washington, D.C., January 23, 2012
- 2010 Integrated approach to sustainable transportation, land use, and building design: Case of Luokou District, Jinan, China, with Deakin, E. and Zhang, X., presented at the 89th Annual Meeting of the Transportation Research Board, Washington, D.C., January 11, 2010
- 2006 System plan for California's Bay Area regional express bus service, with Deakin E., Nuworsoo, C., Golub, A., Finney, J., Lew, W., Frank, B., Cherry, C., Higgins, N., Rubin, E., Valentin, T., Parks, K., Ng, W., and Wong, D. presented at the 85th Annual Meeting of the Transportation Research Board, Washington, D.C., January 22-26, 2006
- 2005 Study of park-and-ride facilities and their use in the San Francisco Bay Area of California, with Deakin E., presented at the 84th Annual Meeting of the Transportation Research Board, Washington, D.C., January 9-13, 2005

### **NON-PEER REVIEWED PRESENTATIONS AT MEETINGS/CONFERENCES (Abstract refereed)**

Listed in reverse chronological order by date of presentation

- 2023 Assessing the effectiveness of a policy experiment: Fare-free paratransit for people with disability? with Misra, A. and Marshall, W., presented at the 2023 American Association of Geographers Annual Meeting, Denver, March 27, 2023
- 2022 Experiences of women and minorities in the workplace: Bias, unfair treatment, and the state of DEI in the planning industry, presented at the 62nd Annual Conference of the Association of Collegiate Schools of Planning, Toronto, November 5, 2022
- 2022 Everyday travel experiences of people with disability: How transportation infrastructure fails the disabled, with Wagner, M.\* and Marshall, W., presented at the 62nd Annual Conference of the Association of Collegiate Schools of Planning, Toronto, November 5, 2022
- 2021 Accessible transportation: Investigating the travel experiences of people with disabilities, with Ototivo, R.\* and Marshall, W., presented at the 61st Annual Conference of the Association of Collegiate Schools of Planning, virtual conference, October 23, 2021
- 2021 Older adults and ride-hailing in California: Estimating willingness to pay for new service features across various trip destinations, with Misra, A., Agrawal, A., and Dobbs, B., presented at the 61st Annual Conference of the Association of Collegiate Schools of Planning, virtual conference, October 23, 2021
- 2021 Racial and demographic predictors of transportation-related policing deaths, with Misra, A., Dantzler, P., and Troy, A., presented at the 61st Annual Conference of the Association of Collegiate Schools of Planning, virtual conference, October 21, 2021

- 2021 Geospatial skills field: Comparing professional, educator, and student perspectives, with Summers, A., Fritz, D., and Powell, B., presented at the GIS in the Rockies conference, Denver, September 28, 2021
- 2017 Tracing the geography of fatalities from policing in the United States: What do transportation-related incidents tell us? presented at the 57th Annual Conference of the Association of Collegiate Schools of Planning, Denver, October 14, 2017
- 2017 Raise transit funding through gas taxes or higher fares? An exploration of opinions across urbanized areas in the United States, 2012-2016, with Agrawal, A. and Nixon, H., presented at the 57th Annual Conference of the Association of Collegiate Schools of Planning, Denver, October 13, 2017
- 2016 Do time constraints faced by Canadian women influence their travel behavior and mode choice differently than men? with Bennett, K.\*, presented at the 56th Annual Conference of the Association of Collegiate Schools of Planning, Portland, November 5, 2016
- 2016 Investigating barriers to using TNC services for seniors (65 and over) in Edmonton, Canada, with Reiniger, J.\*, presented at the American Association of Geographers' Annual Meeting, San Francisco, March 31, 2016
- 2014 The impact of free residential parking on parking pricing policies in employment centers and commercial districts, with Deakin, E., presented at the 54th Annual Conference of the Association of Collegiate Schools of Planning, Philadelphia, October 30, 2014
- 2014 Managing campus parking: Supply, demand and regulatory practices at the University of California, Berkeley, with Deakin, E., presented at the 54th Annual Conference of the Association of Collegiate Schools of Planning, Philadelphia, October 30, 2014
- 2012 Motorized two-wheeler ownership and use in India: The case of Mumbai, presented at the Urban Transport Pathways Conference, David Brower Center, Berkeley, September 13, 2012
- 2009 Transit oriented development in the Chinese context – A case from Jinan, with Duduta, N., presented at the 14th Annual University of California Transportation Center Conference, UC Riverside, February 13, 2009

## **SEMINARS/WORKSHOPS PRESENTED**

- 2022 Invited talk “The role of technology in transportation-enabled services: The promise and perils of big data”, for Fellows at the Consortium on Analytics for Data-Driven Decision-Making (CANDD3) McGill University, presented on October 12
- 2021 Invited to discuss research paper “I’ll have to drive there: How daily time constraints impact women’s car use differently than men’s”, with transportation-focused doctoral students at Cornell University and Rutgers University, December 10 (jointly organized by Dr. Nicholas Klein and Dr. Kelcie Ralph)
- 2021 Roundtable discussant for “Moving forward age-friendly transportation in the U.S. in a technology era”, at the 61st Annual Conference of the Association of Collegiate Schools of Planning, October 23
- 2021 Panelist for “Feminist spaces: How to plan & design Denver for women”, organized by the APAS-WTS Colorado student chapter, Denver, November 12 (available at [https://www.youtube.com/watch?v=Z5t7q2az\\_1o](https://www.youtube.com/watch?v=Z5t7q2az_1o), accessed March 26, 2024)
- 2021 Panelist for “Lives, numbers, and transformations: GIS empowering all peoples”, organized by the Facility for Advanced Spatial Technology, University of Colorado Denver, May 3 (available at <https://www.youtube.com/watch?v=yWIM40xaeT0>, accessed March 26, 2024)
- 2020 Roundtable discussant for “Gaps in learning for GIS Practitioners”, at the GIS in the Rockies Conference, Denver, October 7
- 2019 Roundtable discussant for “Preparing students to become GIS Practitioners in a fast-paced field”, at the GIS in the Rockies Conference, Denver, September 17
- 2018 Invited talk “Investigating equity in transportation planning: Lessons from talking to older adults + Modeling gender-specific differences”, at the College of Architecture and Planning, University of Colorado Denver, May 3 (Note: I was at the University of Alberta at this time)
- 2018 Talk on “Winter city cycling: What works and how can it be made better?”, at the Geography and



- Planning Students' Society (GAAPS) annual symposium Urban Week, Edmonton, March 22
- 2018 Talk on research methods “Contrasting methods for investigating policy questions: When to use qualitative and quantitative approaches?” at the Graduate Students' society of Earth Atmospheric Sciences (ATLAS) weekly symposium, Edmonton, January 19
- 2017 Invited talk on qualitative research methods for graduate transportation engineering students “How different are Indian women and men on time budgets and safety? Implications for transportation research at the Center for Infrastructure, Sustainable Transportation and Urban Planning”, Indian Institute of Science, Bengaluru, November 30 (organized by Dr. Abdul Pinjari)
- 2017 Discussant for “International planning education: Refresh your syllabus”, at the 57th Annual Conference of the Association of Collegiate Schools of Planning, Denver, October 14
- 2017 Invited to talk on the use of cartography in social science research for non-geographers Using geospatial techniques for urban planning and policy analysis at the Research Innovation Space in Education, University of Alberta, March 17 by Dr. Rob Shields (available at <https://bluejeans.com/playback/s/iiOj3emOy8ronl1IhCqOCapzBkgV9npR0OMA45V2QBMNpHFuP7QX2Oa2aN7x43Jr>, accessed October 1, 2019)
- 2017 Invited talk on research methods for graduate transportation engineering students “Contrasting methods for investigating consumer demand for transportation policy: When to use qualitative and quantitative approaches?” at the Donadeo Innovation Centre for Engineering, University of Alberta, Institute of Transportation Engineers (Student Chapter), February 2

## PROFESSIONAL ORGANIZATIONS

- 2014-24 Certified Member, American Planning Association, AICP
- 2015-18, 22-24 Member, American Association of Geographers
- 2017-24 Research Associate, Mineta Transportation Institute, San Jose State University, CA
- 2016-24 Member, World Society of Transportation and Land Use Research (WSTLUR)
- 2016-19 Affiliate Member, Transportation Research Board (TRB)

## COURSES TAUGHT

### University of Colorado Denver: (2019 onwards)

- URPL 5080: Methods and Analysis for Planning Professionals (G) (Lecture + Lab; New course)
- URPL 6225: Urban Policy Analytics (G) (Lecture + Lab; ~7 students)
- URPL 6250: GIS for Urban Planning (G) (Lecture + Lab; ~15 students)
- URPL 6555: Transportation, Land Use, and the Environment (G) (Lecture + Seminar; ~13 students)
- URPL 6560: Transit, Pedestrian, and Bicycle planning (G) (Lecture; ~17 students)
- DSPL 7014: Doctoral Colloquium (G) (Seminar; 9 students)

### University of Alberta, Edmonton: (2018-14)

- HGP 211: Design Fundamentals for Planners (UG) (Studio; ~20 students)
- PLAN 570/HGP 570/HGP 470: Geographical Information Systems (G/UG) (Lecture + Lab; ~17 students)
- PLAN 585/HGP 485: Transportation Planning and Policy (G/UG) (Lecture + Seminar; ~18 students)

### University of California, Berkeley: (2013-12; 2000)

- CYPLAN 218: Transportation Planning Studio (G) (Studio; ~15 students) (Lecturer with Deakin, E.)
- (IN)CITY: Plan Preparation Studio (UG) (Studio; ~15 students) (Lecturer with Guthrie, D. and Frick, K.)

- ED 4: People and the Environment (UG) (Seminar; ~10 students) (TA for Lyndon, D. and Martin, M.)

Maharaja Sayajirao University, Baroda (1998-1997)

- Sciography and Perspective (UG) (Lecture + Studio; ~40 students)
- Solid Geometry (UG) (Lecture + Studio; ~40 students)

**THESIS COMMITTEES AND ADVISING**

University of Colorado Denver

Doctoral

1. Nobler, E., The intersection of transportation planning, energy use, and equity, 2019- (PhD in Geography, Planning, and Design – Chair)
2. Mesbah, M., Factors affecting severe pedestrian crash percentages at intersections in Colorado 2006 - 2018, 2023 (PhD in Civil Engineering Systems; candidacy defense – External examiner)
3. Coppola, N., Where the sidewalk begins: Evaluating pedestrian infrastructure, planning, and equity using GIS and big data, 2019-21 (PhD in Civil Engineering Systems; candidacy & thesis defense – External examiner)

Master's

4. La, I., Worse than we think: Accounting for bicyclist exposure in the high-injury network, 2023 (Master's Thesis in Civil Engineering Systems – External examiner)
5. Wagner, M., Investigating barriers to achieving ADA compliance of transportation infrastructure in public agencies, 2022-23 (MURP Planning Thesis – Chair)
6. Akcicek, C., An examination of temporal patterns of paratransit: How does paratransit compare to travel by car? 2021-22 (MURP Planning Thesis – Chair) (Mr. Akcicek is a Researcher at the National Renewable Energy Laboratory)
7. Melorango, S., Making the wheels on the bus go round and round: Factors to make U.S. bus service efficient and effective, 2020-21 (MURP Planning Thesis – Chair) (Ms. Melorango is an associate at the Colorado Dept. of Public Health & Environment)
8. Gibson, P., Roads versus sidewalks: How American cities fund and maintain them differently and why it matters, 2021 (Master's Thesis in Civil Engineering Systems – External examiner)
9. Green, J., Assessing ongoing gentrification and risk in suburban bedroom communities: Findings from metro Denver, 2019-21 (MURP Planning Thesis – Chair) (Mr. Green is an Associate Planner at the City and County of Denver)

Other Universities

10. Hussain, A., Examining cohort and location effects for the demand in electric bicycle conversion kits in India, 2023-24 (M Eng Thesis in Civil Engineering at the Indian Institute of Technology, Delhi – Co-Supervisor)
11. Doddamani, C., A study on the effects of built environment measures on vehicle ownership and travel behavior: The context of Hubli-Dharwad cities, 2022 (PhD in Civil Engineering at the Indian Institute of Technology, Delhi – External examiner)

University of Alberta Edmonton

Doctoral

12. Reynard, D., Carbon pricing and its effect on mobility and social exclusion in Canada, 2017-20 (PhD in Urban Planning and Human Geography – Co-chair) (Dr. Reynard is currently a Senior Spatial Data Analyst at Employment and Social Development, Government of Canada)
13. Chen, Y., An accessibility-based framework for enhancing a socially resilient and sustainable urban built environment for seniors, 2018 (PhD in Civil and Environmental Engineering; candidacy defense – External examiner)
14. Nielsen, C., The geography of being born too small and spatiotemporal relationships with the outdoor environment, 2018 (PhD in Human Geography and Medical Sciences + Pediatrics; thesis defense – Internal examiner)
15. Talaei, A., Analysis of long-term energy efficiency improvement and GhG mitigation potential in Canada’s manufacturing industries, 2017 (PhD in Mechanical Engineering; candidacy defense – External examiner)

Master’s

16. Chan, M., An exploration of public-sector transportation programs and services for aging societies in major metropolitan Canadian cities, 2019 (MSc in Planning – Capstone advisor) (Ms. Chan is currently a senior Program and Policy Specialist at the City of Edmonton, Canada)
17. Woo, M., Developing HOV lane and ramp meter analysis frameworks for Alberta highways, 2018 (MSc in Transportation Engineering – Co-advisor)
18. Whited, B., Application of graph-theoretic indicators in multi-modal public transportation networks, 2018 (MSc in Transportation Engineering – External examiner)
19. Hui, K., Investigating the use of anonymous cellular data for intercity travel patterns in Alberta, 2017 (MSc in Transportation Engineering – External examiner)
20. Shi, L., Bus arrival time reliability analyses and dynamic prediction model based on multi-source data, 2016 (MSc in Transportation Engineering – External examiner)
21. Lan, C., Route-level transit passenger origin-destination trip estimation from automatic passenger counting data: A case study in Edmonton, 2015 (MSc in Transportation Engineering – External examiner)
22. Sikdar, R., Reliability assessment and improvements along a bus corridor, 2014 (MSc in Transportation Engineering – External examiner)

Undergraduate

23. Lanyi-Bennett, K., Time budget effects on travel behavior and mode choice: A case study of gender differences in Edmonton, 2016 (BA in Human Geography and Planning – Honors Thesis Advisor) (Ms. Lanyi-Bennett is an Associate at Parlee McLaws LLP, Edmonton, Canada)
24. Gillespie, D., Qualitative assessment of winter cyclists in Edmonton, 2015 (BA in Human Geography and Planning – Advisor) (Ms. Gillespie is a Senior Policy Analyst at Nunavut Housing Corporation, Canada)

**LEADERSHIP AND SERVICE**

Service to: D – Department; C – College; U – University; P – Profession; S – Scholarly community

University of Colorado Denver

2019-24	D	DURP Faculty Planning Group
2022-24	D	Curriculum Committee
2020-24	D	DURP representative for the State Authorization Professional Licensure
2020-21	D	Departmental Faculty Search Committee

2023-24	C	Ad-Hoc Budget Committee (under College Governance Committee)
2019-24	C	Ph.D. Admissions Committee
2021	C	EVOLVE Seed Grant Selection Committee
2019	C	Ph.D. Program Task Force
2023-24	U	College representative on Faculty Assembly
2021-23	U	Learning, Educational Technology, Teaching and Scholarship (LETTTS) (College representative on Faculty Assembly subcommittee)
2021-22	U	Search Committee for the Associate Vice Chancellor for Research
2022	U	Transportation Engineering Faculty search (non-voting member), Department of Civil Engineering
2021-23	U	Media expert for transportation at CU Denver
2021	U	Peer Reviewer for Presidential Initiative on Urban and Place-Based Research grants
2019-23	P	Faculty representative on the Board of the American Planning Association (APA), Colorado
2022-23	P	Co-chair of the Equity, Diversity, and Inclusion (EDI) committee of the American Planning Association (APA), Colorado
2020	P	Denver Smart Cycling Study – Project Advisory Committee
2024-25	S	Committee member for Barclay Gibbs Jones Award for the Association of Collegiate Schools of Planning <a href="https://www.acsp.org/page/AwardBarclayGJones">https://www.acsp.org/page/AwardBarclayGJones</a>
2024-25	S	Committee liaison for TRB Standing Committee on Accessible Transportation and Mobility (AME50) on Paratransit Subcommittee (AP055)
2023-24	S	Committee member for Best Thesis Award at the World Society for Transport and Land Use Research (WSTLUR) 2024 conference
2022	S	Session facilitator Transportation planning for vulnerable populations at the 62nd Annual Conference of the Association of Collegiate Schools of Planning, November 4
2021	S	Session facilitator Travel options and equity at the 61st Annual Conference of the Association of Collegiate Schools of Planning, October 22
2021	S	Session moderator New Mobilities: Ridehailing at the World Society for Transport and Land Use Research (WSTLUR) 2021 Conference, August 9
2020-21	S	Track Co-Chair for Best Thesis Award at the World Society for Transport and Land Use Research (WSTLUR) 2021 conference
2017-19	S	TRB Subcommittee member on Mainstreaming Global Research and Multi- faceted Data Collection on Gender Issues in Transportation ABE70 (2)
2017	S	Session organizer Examining the contours of racial equity and planning: Where might planning practice intersect movements such as Black Lives Matter (#blm)? at the 57th Annual Conference of the Association of Collegiate Schools of Planning, Denver, October 14
2016	S	Session moderator Transport, mobility, and political economies of sustainability at the American Association of Geographers' Annual Meeting, San Francisco, March 31
2009-22	S	Peer Reviewer for multiple journals (see table further down)

2017-18	D	Undergraduate URP advisor
2016-18	D	MSc URP program admissions committee
2016-17	D	URP program website
2016-17	D	URP studio management
2015-16	D	Space planning committee
2014-15	D	Undergraduate URP admissions committee

## PEER REVIEWING ACTIVITY

Peer Reviewing Activity	2009-21	2022	2023	2024	Totals
<i>Journals</i>					
Annals of the American Association of Geographers	0	1	1		2
Applied Geography	1				1
Canadian Geographer	1				1
Case Studies on Transport Policy	1				1
European Transport Research Review	0	1			1
GeoForum	1				1
Journal of International Development	1				1
Land Use Policy	1				1
Transportation in Developing Economies	1				1
Travel Behavior and Society	1				1
Urban Planning	1				1
Urban Research and Practice	1				1
Geography Compass	2				2
International Journal of Sustainable Transportation	2				2
Sustainability	2				2
Sustainable Cities and Society	2				2
Technology Forecasting and Social Change	2				2
Transport Reviews	2				2
Transportation Research: Part D Transport and Environment	1	1	2	3	7
Transportation	1	2			3
Bridging Transportation Researchers	4				4
Urban Studies	4				4
Journal of Transport Geography	5		3	2	10
Journal of Transportation and Land Use (/WCTR)	5				5
Journal of Planning Education and Research	5	1			6
Journal of the American Planning Association	6		1		7
Transportation Research: Part A Policy and Practice	4	2	2	1	9
Cities	8	1			9
Journal of Urban Planning and Development	13				13
Transportation Research Record (/TRB)	23		1		24
Transport Policy	29	1			30

<i>Research Grants</i>					
EVOLVE Seed Grant	5				5
Mountain-Plains Consortium (MPC) UTC Region 8	1				1
Natural Sciences and Engineering Research Council of Canada	1				1
Presidential Initiative on Urban and Place-Based Research grant	3				3
STRIDE (Southeastern Transportation Research, Innovation, Development and Education Center)	1				1
XJTLU Research Development Fund	1				1
<b>Total by Year/s</b>	<b>142</b>	<b>10</b>	<b>10</b>	<b>6</b>	<b>168</b>

## **MEDIA ENGAGEMENT**

1. “Associate Professor Manish Shirgaokar examines the intersection of transportation, technology, and equity”, March 26, 2024 (available at <https://news.ucdenver.edu/?p=136650?p=136650&preview=1&ppp=5a0b514d5a>, accessed March 26, 2024)
2. “Researchers study how bidirectional EV charging could help power the grid”, expert interview in Straight Arrow News on research regarding battery storage, EVs, and managed power grids, February 7, 2024 (available at <https://san.com/cc/researchers-study-how-bidirectional-ev-charging-could-help-power-the-grid/>, accessed March 26, 2024)
3. “Can the US still build – and think – big? The Lowcountry may hold clues”, expert interview in *The Christian Science Monitor* on H.R.3684 - Infrastructure Investment and Jobs Act, November 15, 2021 (available at <https://www.csmonitor.com/USA/Politics/2021/1115/Can-the-US-still-build-and-think-big-The-Lowcountry-may-hold-clues>, accessed March 26, 2024)
4. “The Bipartisan Infrastructure Bill & Colorado”, expert interview in *The Sentry*, September 13, 2021 (available at <http://cu-sentry.com/2021/09/22/the-bipartisan-infrastructure-bill-colorado/>, accessed October 1, 2022)
5. Paper with Nobler, E\* (PhD student) resulted in a news article in the University Newspaper with the aim of sharing the findings with a broader audience. <https://news.ucdenver.edu/a-recent-study-by-manish-shirgaokar-murp-faculty-and-erin-nobler-cap-phd-student/> (accessed March 26, 2024)
6. Annually conducted Geographic Information Systems poster session on municipal planning issues, based on GIS course each Winter term, hosted by City of Edmonton and attended by City employees and industry partners. Various senior municipal policymakers including the mayor and city councillors attended this event. Attendance grew from 40 in 2014 to over 125 in 2018. When I last taught the course at U Alberta in 2018, just like every previous year, various media outlets covered the projects. (e.g., <http://edmontonjournal.com/news/local-news/edmontons-top-10-neighbourhoods-might-be-unexpected-gems-u-of-a-students>, accessed March 26, 2024)
7. “Tailored education could increase use of city’s bike lanes”, interviewed for *folio* article on applied research conducted by faculty, November 24, 2017 (available at <https://www.folio.ca/tailored-education-could-increase-use-of-citys-bike-lanes/>, accessed March 26, 2024)
8. “How to engage Edmontonians this civic election”, invited to talk about transit policy in Edmonton at a non-profit interVivos aiming at informing citizens through non-partisan views of various civic issues. Interviewed by *Global News* for television, September 19, 2017 (available at <https://globalnews.ca/news/3754626/how-to-engage-edmontonians-this-civic-election/>, accessed March

26, 2024)

9. “Money garnered by speed tickets worth the cost”, expert interview in *Edmonton Examiner* on a proposal to increase speeds on freeways, May 23, 2017 (available at <http://www.edmontonexaminer.com/2017/05/23/money-garnered-by-speed-tickets-worth-the-cost>, accessed April 20, 2018)
10. “MaaS Effect - The private vehicle is looking costly, wasteful, dirty and plain old passé as more people take advantage of the mobility-as-a-service ecosystem. Is it time to welcome our new transportation overlords?” expert interview for Alberta School of Business, March 14, 2017 (available at <https://www.ualberta.ca/business/alumni/ualberta-business-magazine/2017-spring/features/maas-effect>, accessed January 8, 2019)
11. “Better bike infrastructure would make Edmonton safer for pedestrians and cyclists: pedestrians”, expert interview in *Metro News* on research conducted in Edmonton regarding bicycling in winter, December 9, 2016 (available at [https://ssl.eas.ualberta.ca/sitecore/download/file/papers/paper\\_244.pdf](https://ssl.eas.ualberta.ca/sitecore/download/file/papers/paper_244.pdf), accessed March 26, 2024)
12. “If we build it, will they bike?” interview in *University of Alberta News* on applied research conducted by faculty, October 13, 2016 (available at [https://ssl.eas.ualberta.ca/sitecore/download/file/papers/paper\\_229.pdf](https://ssl.eas.ualberta.ca/sitecore/download/file/papers/paper_229.pdf), accessed March 26, 2024)
13. The case for investing billions in Edmonton bus rapid transit, expert interview in *Edmonton Journal* on capital intensive investments, April 26, 2016 (available at <http://edmontonjournal.com/news/politics/david-staples-the-case-for-investing-billions-in-edmonton-bus-rapid-transit>, accessed March 26, 2024)
14. “Intermodal transit hub needed for passengers, too”, opinion in *Edmonton Journal* on a major transit planning issue in Edmonton, November 3, 2014 (available at <http://edmontonjournal.com/opinion/opinion-intermodal-transit-hub-needed-for-passengers-too>, accessed March 26, 2024)

## **AWARDS/HONORS**

- |      |  |
|------|--|
| 2017 | Emerging Scholar Award: Regional Development & Planning Specialty Group, American Association of Geographers, Boston, MA |
| 1998 | Hansa Mehta Gold Medal in Architecture, Maharaja Sayajirao University, Baroda  |
| 1998 | M. B. Dave Gold Medal in Architecture, Maharaja Sayajirao University, Baroda   |
| 1998 | Rupal K. Engineer memorial Gold Medal, Maharaja Sayajirao University, Baroda   |
| 1997 | Ichha H. Kamdar merit medal/certificate, Institution of Engineers, India   |