

## DR. DANA (ROWAN) ROWANGOULD

Assistant Professor, Civil and Environmental Engineering  
University of Vermont, Burlington, VT  
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### EDUCATION

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**Ph.D., University of California, Davis**, Ecology Graduate Group (Environmental Science and Policy Emphasis), 2013.

**M.S., University of California, Davis**, Agricultural and Resource Economics (Environmental and Resource Economics Emphasis), 2009.

**B.S., Rice University**, Civil and Environmental Engineering (Environmental Engineering Emphasis), 2002. Honors: *cum laude*.

### PROFESSIONAL EXPERIENCE

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**Assistant Professor, University of Vermont.** Department of Civil and Environmental Engineering. Fall 2022 – Present.

**Co-Founder and Principal, Sustainable Systems Research, LLC.** June 2012 – Summer 2023.

**Research Assistant Professor, University of Vermont.** Department of Civil and Environmental Engineering. Fall 2019 – Summer 2022.

**Affiliate Assistant Professor, University of Washington.** Masters of Sustainable Transportation Program, Department of Civil and Environmental Engineering. Fall 2013 – Spring 2019.  
Courses taught:

CEE/CET 567: Health and Sustainable Transportation

CET 568: Transportation Economics

**Postdoctoral scholar, University of California Davis.** Center for Regional Change. January 2014 – August 2014.

**Teaching Assistant, University of California Davis.** Civil and Environmental Engineering Department. January 2012 – June 2013. Courses taught:

ECI 162: Transportation engineering and land use planning (lab section)

Sustainable Design Academy

**Graduate Research Assistant, University of California Davis.** Dr. Deb Niemeier, Civil and Environmental Engineering Department. August 2005 – December 2011.

**Environmental Scientist, Groundwater Services, Inc.** Houston Texas. February 2002 – July 2004.

**Teaching Assistant, Rice University.** Environmental Engineering Department. Jan 2002 – May 2002. Course taught:

CEVE 412: Hydrology & Water Resource Engineering (lab section)

**Research Assistant, Rice University.** Dr. Phil Bedient, Environmental Engineering Department. June 2001 – December 2001.

**Research Assistant, Rice University.** Dr. Bill Llope, Physics Department. Fall 1999.

**Research Assistant, Florida State University.** Dr. Roy Odom, National High Magnetic Field Laboratory, Geochemistry Department. Summer 1997 and 1999.

## PEER REVIEWED JOURNAL ARTICLES

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- Espeland, S.\*, **Rowangould, D.** (2024) Rural travel burdens in the United States: Unmet need and travel costs. *Journal of Transport Geography*. 121, 104016.
- LanzDuret-Hernandez, J.\*\*\*, Grajdura, S.†, **Rowangould, D.** (2024) “We have the right and we need better transportation”: Mobility, community, and connection of Latin American migrant workers in Vermont. *Journal of Transport Geography*. 118, 1039447.
- Rowangould, D.**, Karner, A., Alcorn, L., Levine, K., (2024) “I’d like accessibility analysis to help us shape the future”: Transportation practitioners and accessibility measurement. *Transportation Research Record: Journal of the Transportation Research Board*. First published online May 2024.
- Rowangould, D.**, Lou, J., Karner, A., Niemeier, D. (2024). Does Access to Voting Locations Affect the Choice to Vote? *Transportation Research Interdisciplinary Perspectives*. 23, 101029.
- Pezeshknejad, P.\*, **Rowangould, D.** (2024). Evaluating Safety and Compliance of Pedestrian Crossings in Rural Contexts: A Before and After Study of RRFBs and LED-Embedded Signs. *Accident Analysis & Prevention*. Vol 198, April 2024, 107462
- Wang W., Espeland, S. \*, Barajas, J., **Rowangould, D.** (2023). Rural-nonrural divide in car access and unmet travel need in the United States. *Transportation*. September 2023, p1-30.
- Karner, A., LaRue, S., Klumpenhouwer, W., **Rowangould, D.** (2023). Evaluating public transit agency responses to the Covid-19 pandemic in seven US regions. *Case Studies on Transport Policy*, vol 12, June 2023, 100989.
- He, Qian, **Rowangould, D.**, Karner, A., Palm M., LaRue, S. (2022). Covid-19 pandemic impacts on essential transit riders: Findings from a U.S. survey. *Transportation Research Part D: Transport and the Environment*. 105, 103217
- Klumpenhouwer, W., Allen, J., Li, L., Liu, R., Robinson, M., Silva, D., Farber, S., Karner, A., **Rowangould, D.**, Shalaby, A., Buchanan, M., Higashide, S. (2021). A Comprehensive Transit Accessibility and Equity Dashboard. *Findings*. July.
- Karner, A., **Rowangould, D.** (2021) Access to Secure Ballot Drop-off Locations in Texas. *Findings*. May.
- Karner, A., London, J., **Rowangould, D.**, & Manaugh, K. (2020). From Transportation Equity to Transportation Justice: Within, Through, and Beyond the State. *Journal of Planning Literature*. 35 (4), 440-459
- Wu, Y. **D. Rowangould**, J.K. London, A. Karner. (2019). Modeling health equity in active transportation planning. *Transportation Research Part D: Transport and Environment* 67, 528-540.
- Rowangould, D.**, Rowangould, G., Craft E., Niemeier, D. (2019). Validating and Refining EPA’s Traffic Exposure Screening Measure. *International Journal of Environmental Research and Public Health*. 16(1), 3.
- Rowangould, D.**, Rowangould, G., Niemeier, D. (2018) Evaluation of the Health Impacts of Rolling Back a Port Clean Trucks Program. *Transportation Research Record* 2672(11) 53-64.
- Rowangould, D.**, Karner, A., London, J. (2016). Identifying Environmental Justice Communities for Transportation Analysis. *Transportation Research Part A: Policy and Practice*, 88:151-162.
- Rowan, D.**, M. Eldridge, D. Niemeier. (2013). Incorporating Regional Growth into Forecasts of Greenhouse Gas Emissions From Project-Level Residential and Commercial Development. *Energy Policy*, 62:1288-1300.

## Dr. Dana Rowangould

- London, J. A. Karner, J. Sze, **D. Rowan**, G. Gambirazzio, D. Niemeier. (2013). Racing Climate Change: Collaboration and conflict in California's global climate change policy arena. *Global Environmental Change*. 23 (4), 791-799
- Rowan, D.** A. Karner, D. Niemeier. (2010). Miles per Gallon illusions and Corporate Average Fuel Economy distortions: When Even the Transport Experts Have Trouble. *Transportation Research Record: Journal of the Transportation Research Board*. February 2010, 2191: 8-15.
- Sze, J., G. Gambirazzio, A. Karner, **D. Rowan**, J. London, D. Niemeier. (2009). Best in Show? Climate and Environmental Justice Policy in California. *Environmental Justice*. December 2009, 2(4):179-184.
- Niemeier, D., **D. Rowan**. (2009). From kiosks to megastores: The evolving carbon market. *California Agriculture*. April 2009, 63(2): 96-103.
- † Postdoctoral advisee, \* Graduate student advisee, \*\* Undergraduate student advisee

## SCHOLARLY PRESENTATIONS

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- Schukei, H.\*, **Rowangould, D.** The case for rethinking rural: How simplification of rural places clouds our understanding of sustainable rural travel behavior. Accepted for presentation at the *Transportation Research Board's 104<sup>th</sup> Annual Meeting*. Washington D.C. January 5 - 9, 2024.
- Pezeshknejad, P.\*, Damon, L.\*\*, Grajdura, S.†, **Rowangould, D.** Advancing equitable electric vehicle adoption: Addressing home charging barriers and costs. Accepted for presentation at the *Transportation Research Board's 104<sup>th</sup> Annual Meeting*. Washington D.C. January 5 - 9, 2024.
- Grajdura, S.†, LanzDuret-Hernandez, J., Robtoy, N.\*\*, **Rowangould, D.** "I lost it all. The water destroyed everything": Transportation Resilience, Housing, and Displacement of Rural Homeless Communities. Accepted for presentation at the *Transportation Research Board's 104<sup>th</sup> Annual Meeting*. Washington D.C. January 5 - 9, 2024.
- Pezeshknejad, P.\*, Damon, L.\*\*, Grajdura, S.†, **Rowangould, D.** (2024) Advancing equitable electric vehicle adoption: Addressing home charging barriers and costs. Presented at the *2024 VTrans Research Symposium*. Barre, VT. 9/25/24.
- LanzDuret-Hernandez, J.\*\*, Grajdura, S.†, **Rowangould, D.** (2024) "We have the right and we need better transportation": Mobility, Community, and Connection of Latin American Migrant Workers in Vermont. Presented at the *2024 VTrans Research Symposium*. Barre, VT. 9/25/24.
- Pezeshknejad, P.\*, Damon, L.\*\*, Grajdura, S.†, **Rowangould, D.** (2024) Advancing equitable electric vehicle adoption: Addressing home charging barriers and costs. Presented at the *Transportation Research Board's Transportation Symposium on Environment, Energy, and Livable Economies*. Denver, CO August 25 – 28, 2024.
- Schukei, H.\*, **Rowangould, D.** (2024) The case for rethinking rural: How simplification of rural places clouds our understanding of sustainable rural travel behavior. Presented at the *Transportation Research Board's Transportation Symposium on Environment, Energy, and Livable Economies*. Denver, CO August 25 – 28, 2024.
- Pezeshknejad, P.\*, Damon, L.\*\*, Grajdura, S.†, **Rowangould, D.** (2024) Advancing equitable electric vehicle adoption: Addressing home charging barriers and costs. Presented at the *Transportation Research Board's 2<sup>nd</sup> Conference on Advancing Transportation Equity*. Baltimore, MD. July 15 - 18, 2024.

## Dr. Dana Rowangould

- Schukei, H.\*, **Rowangould, D.** (2024) Sustainable travel behaviors in urban and rural contexts: Who and where matters. Presented at the *Transportation Research Board's 103rd Annual Meeting*. Washington D.C. January 7 - 11, 2024.
- Pezeshknejad, P.\*, **Rowangould, D.** (2024) Evaluating Safety and Compliance of Pedestrian Crossings in Rural Contexts: A Before and After Study of RRFBs and LED-Embedded Signs. Presented at the *Transportation Research Board's 103rd Annual Meeting*. Washington D.C. January 7 - 11, 2024.
- Grajdura, S.<sup>†</sup>, Espeland, S.\*, LanzDuret-Hernandez, J.\*\*\*, **Rowangould, D.** (2024) "Having your own vehicle... it changes everything": Limited Car Access and Rural Mobility in Vermont. Presented at the *Transportation Research Board's 103rd Annual Meeting*. Washington D.C. January 7 - 11, 2024.
- LanzDuret-Hernandez, J.\*\*\*, Grajdura, S.<sup>†</sup>, **Rowangould, D.** (2024) Mobility, Community, and Connection: Transportation Experiences of Rural Latinx Migrant Workers. Presented at the *Transportation Research Board's 103rd Annual Meeting*. Washington D.C. January 7 - 11, 2024.
- Pezeshknejad, P.\*, Palm, M., **Rowangould, D.** (2024) Transit Use During and After the COVID-19 Pandemic: The "New Normal" for Public Transit Ridership. Presented at the *Transportation Research Board's 103rd Annual Meeting*. Washington D.C. January 7 - 11, 2024.
- Aultman-Hall, L., **Rowangould, D.**, Robinson, M. (2024) Do Regional and Extra-Regional Accessibility Affect Long Distance Intercity Travel? Insights from California. Presented at the *Transportation Research Board's 103rd Annual Meeting*. Washington D.C. January 7 - 11, 2024.
- Palcsik, O.\*\*\*, Cope, M., **Rowangould, D.** (2024) The Role of Place in the Function, Meaning, and Future of Electric Vehicles in Vermont. Presented at the *Transportation Research Board's 103rd Annual Meeting*. Washington D.C. January 7 - 11, 2024.
- Wuthrich, C.\*\*\*, **Rowangould, D.** (2024) The Effects of Border Proximity and Driver's License Laws on Travel Outcomes for Latine Immigrants in the United States. Presented at the *Transportation Research Board's 103rd Annual Meeting*. Washington D.C. January 7 - 11, 2024.
- Grajdura, S.<sup>†</sup>, **Rowangould, D.** (2023) When the Stakes are High: Evacuation Quality and Equity. Presented at the *Transportation Research Board's 48<sup>th</sup> Natural Hazards Research and Applications Workshop*. Broomfield, CO, July 9 – 13<sup>th</sup> 2023.
- Karner, A., **Rowangould, D.** (2023) Hands-on guidance for applying accessibility measures in transportation planning practice. *ASCE 2023 International Conference on Transportation and Development (ICTD)-Pavements Conference*, Austin, TX. June 15 – 17, 2023.
- Schukei, H.\*, **Rowangould, D.**, (2023) Can Smart Growth Reduce Vehicle Travel in Rural Communities? *Air and Waste Management Association's 116<sup>th</sup> Annual Conference and Exhibition*. Orlando, FL. June 6 – 8, 2023.
- LanzDuret-Hernandez, J.\*\*\*, Grajdura, S.<sup>†</sup>, **Rowangould, D.** (2023) Community and Isolation Among Latinx Migrant Workers in Vermont: Achieving Connection through Mobility, Personal Networks, and Language & Culture. Presented at the *Institute of Transportation Engineers Northeastern District Annual Meeting*, Burlington, VT. May 10 – 12, 2023.
- Foster, H.\*\*\*, **Rowangould, D.**, Grajdura, S.<sup>†</sup> (2023) Rural Travel Needs Assessment: Transportation Equity in the Northeast Kingdom, VT. Presented at the *Institute of Transportation Engineers Northeastern District Annual Meeting*, Burlington, VT. May 10 – 12, 2023.
- Schukei, H.\*, **Rowangould, D.**, (2023) Can Smart Growth Reduce Vehicle Travel in Rural Communities? Presented at the *Institute of Transportation Engineers Northeastern District Annual Meeting*, Burlington, VT. May 10 – 12, 2023.

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- Pezeshknejad, P.\*, **Rowangould, D.**, Sullivan, James. (2023) Evaluating the Effectiveness of Pedestrian Crossing Treatments in Small and Rural Communities. Presented at the *Institute of Transportation Engineers Northeastern District Annual Meeting*, Burlington, VT. May 10 – 12, 2023.
- Espeland, S.\*, **Rowangould, D.**, (2023) Travel Burdens in the Rural US. Presented at the *Institute of Transportation Engineers Northeastern District Annual Meeting*, Burlington, VT. May 10 – 12, 2023.
- Rowangould, D.**, Lou, J., Karner, A., Niemeier, D. (2023). Does Access to Voting Locations Affect the Choice to Vote? *Transportation Research Board's 102nd Annual Meeting*. Washington D.C. January 8 - 12, 2023.
- Rowangould, D.**, Karner, A., Levine, K., Alcorn, L. (2023). Advancing Accessibility Measurement in Practice: Insights from Transportation Professionals. *Transportation Research Board's 102nd Annual Meeting*. Washington D.C. January 8 - 12, 2023.
- Wang, W., Espeland, S.\*, Barajas, J., **Rowangould, D.** (2023). Who Lacks Cars and Where? Rural-Nonrural Disparities in Sociodemographic and Mobility Characteristics by Car Access in the US. *Transportation Research Board's 102nd Annual Meeting*. Washington D.C. January 8 - 12, 2023.
- Karner, A., **Rowangould, D.**, Alcorn, L. (2023). Classifying Accessibility Measures and Dimensions. *Transportation Research Board's 102nd Annual Meeting*. Washington D.C. January 8 - 12, 2023.
- Karner, A., **Rowangould, D.**, Levine, K., Alcorn, L. (2023). A Guidebook for Accessibility Measurement in Practice. *Transportation Research Board's 102nd Annual Meeting*. Washington D.C. January 8 - 12, 2023.
- Karner, A., **Rowangould, D.**, Niemeier, D, Lou, J, Tucker, R. (2023). Access to Early Voting and Ballot Drop Boxes in Atlanta, GA During the 2020 General Election. *Transportation Research Board's 102nd Annual Meeting*. Washington D.C. January 8 - 12, 2023.
- Rowangould, D.**, Pezeshknejad, P.\*, Sullivan, J. Effectiveness of Rectangular Rapid Flashing Beacons (RRFBs) at Mid-Block Crosswalks. *2022 VTrans Research Symposium*. Barre, VT. 9/14/22.
- Rowangould, D.**, Sullivan, J. (2022) Traffic Safety Toolbox – Addressing Speeds. *2022 VTrans Research Symposium*. Barre, VT. 9/14/22.
- Lou, J., **Rowangould, D.**, Karner, A., Niemeier, D. (2022) Access to Voting and Participation: Does Limiting Mail-In Dropbox Locations in Ohio Suppress Voter Turnout? *6<sup>th</sup> Annual Conference on Election Sciences, Reform, and Administration*. Charlotte, NC. July 27 – 29, 2022.
- Espeland, S.\*, **Rowangould, D.** (2022). Travel Burdens in Rural US Households. *16<sup>th</sup> International Network on European Communications and Transport Activity Research (NECTAR) Conference*. Toronto, Canada. July 20 – 22, 2022.
- Karner, A., LaRue, S., Klumpenhouwer, W., **Rowangould, D.** (2022). Public transit agency responses to the Covid-19 pandemic in seven U.S. regions. *Transportation Research Board's 101<sup>st</sup> Annual Meeting*. Washington D.C. January 9 - 13, 2022.
- He, Q., Larue, S., **Rowangould, D.**, Palm, M., Karner, A. (2021). Covid-19 Impacts on Public Transit Riders: Findings from a US Survey. *Association of Collegiate Schools of Planning 61<sup>st</sup> Annual Conference*. Miami, FL / Virtual. October 7 – 9 and 21 – 23, 2021.
- Rowangould, D.**, He, Q., Larue, S., Karner, A., Palm, M. (2021). What happens to transit users during the Covid-19 pandemic? Findings from a US Survey. *Transportation Research Board Conference on Advancing Transportation Equity*. Virtual. September 8 – 10, 2021.

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- Espeland, S.\*\*, **Rowangould, D.** (2021). Mode-Constrained Travel: Characteristics, barriers, outcomes, and satisfaction of commuters using their non-preferred mode. *Transportation Research Board Conference on Advancing Transportation Equity*. Virtual. September 8 – 10, 2021.
- McCullough, S., Brozen, M., Douglas, G., Erasmus, S., Lee, D., Tinoco, A.M., **Rowangould, D.** (2021). Mobility Justice: Concepts and Applications. *Transportation Research Board Conference on Advancing Transportation Equity*. Virtual. September 8 – 10, 2021.
- Allen, J. Buchanan, M., Farber, S., Higashide, Karner, A., Klumpenhauer, W., Li, L., Liu, R., Robinson, M., **Rowangould, D.**, Shalaby, A., Silva, D. (2021). TransitCenter Equity Pulse. *Transportation Research Board Conference on Advancing Transportation Equity*. Virtual. September 8 – 10, 2021.
- He, Q., Larue, S., **Rowangould, D.**, Palm, M., Karner, A. (2021). Covid-19 Impacts on Public Transit Riders: Findings from a US Survey. *Association of Collegiate Schools of Planning 61<sup>st</sup> Annual Conference*. Miami, FL / Virtual. October 7 – 9 and 21 – 23, 2021.
- He, Q., **Rowangould, D.**, Karner, A., Palm, M., Larue, S. (2021). The Impacts of the Covid-19 Pandemic on U.S. Transit Riders: Who left, and Who was Left Behind? *Bridging Transportation Researchers*. Virtual. August 5 - 6, 2021.
- Karner, A., London, J., **Rowangould, D.**, & Manaugh, K. (2021). Practical Strategies for Achieving Transportation Justice: Seeing Beyond State-Sponsored Approaches. *Transportation Research Board's 100<sup>th</sup> Annual Meeting*. Virtual. January 2021.
- D. Rowangould** (2020). A Justice-oriented approach to equitable transportation planning. *Invited presentation at the National Sustainable Transportation Center Caltrans Equity Workshop*. Virtual. November 16, 2020.
- Karner, A., London, J., **Rowangould, D.**, & Manaugh, K. (2020). Strategies for achieving transportation justice: Seeing beyond the state. *60<sup>th</sup> Annual Association of Collegiate Schools of Planning Annual Conference*, online, November 5 – 8, 2020.
- Lin, M.\* **Rowangould, D.** (2020), Evaluating changes in active travel in response to electric scooter sharing services in Oakland, CA. *Active Living Conference*. Orlando, FL. February 2 – 5, 2020
- Lin, M.\*, **Rowangould, D.** (2019). Evaluating Modal Shift in Response to Electric Scooter Sharing Services in Oakland, California. *Transportation Research Board Specialty Conference on Health and Active Transportation*. Washington, D.C. December 11 – 12. 2019
- Wu, Y., Igbinedion, O., **Rowangould, D.**, London, J., Karner, A. (2019). Modeling neighborhood-level health outcomes of transportation plans. *Active Living Conference*. Charleston, S.C. February 17 – 20, 2019
- Rowangould, D.**, Rowangould, G., Niemeier, D. (2018) Evaluation of the Health Impacts of Rolling Back a Port Clean Trucks Program. *Transportation Research Board's 97<sup>th</sup> Annual Meeting*. Washington, DC. January 7-11, 2018.
- Wu, Y., **Rowangould, D.**, London, J., Karner, A. (2018) Modeling Health Equity in Active Transportation Planning. *Transportation Research Board's 97<sup>th</sup> Annual Meeting*. Washington, DC. January 7-11, 2018.
- Rowangould, D.**, Karner, A., London, J. (2015). Identifying Environmental Justice Communities for Transportation Analysis. *Transportation Research Board's 94<sup>th</sup> Annual Meeting*. Washington, DC. January 11-15, 2015.

## Dr. Dana Rowangould

- Karner, A., London, J., **Rowangould, D.**, Garoupa White, C., (2015). “Putting Data Into Action for Regional Equity in California’s San Joaquin Valley.” *Book Launch Forum: What Counts: Harnessing Data for America’s Communities*. Davis, California. February 13, 2015.
- Rowangould, D.**, Niemeier, D. (2014). Smart growth policy and practice: Retrospective evaluation of residential development in the Sacramento region. *Transportation Research Board’s 93<sup>rd</sup> Annual Meeting*. Washington, DC. January 12-16, 2014.
- Rowan, D.** (2012). Land Use Planning in Practice: A Retrospective Analysis of Greenhouse Gas Reduction and Regional Equity Objectives. *Presented to the Sacramento Metropolitan Air Quality Management District*. 6/6/12.
- Rowan, D.**, Karner, A. (2011). Moving toward equity: The ongoing struggle for environmental justice in California. Session co-organizer and moderator. *Interdisciplinary Graduate and Professional Symposium*, UC Davis, Davis, CA. April 23, 2011.
- Karner, A., **Rowan, D.**, London, J., Sze, J., Niemeier, D. (2009). Environmental justice, gender, and conflict in California climate policy. 4th *International Conference on Women’s Issues in Transportation*. Irvine, CA, Oct. 27 – 30, 2009.
- Rowan, D.**, C. Kirk, V. Girn, K. Stasio, T. Stillwater, C. Vassilian, S. Gunda, T. Hsieh. (2009). Campus Energy Solutions: Innovations and Results from a Collaborative Program. *International Energy Program Evaluation Conference*. Portland, OR. August 12 – 14, 2009.
- Niemeier, D., J. Silvis, **D. Rowan**. (2007). Private Funding of High Profile Climate Change Skeptics: A Dense Network. *Energy Crossroads Conference, Roosevelt Institute*. Stanford, CA. March 1-2, 2007.
- Madani, K., **D. Rowan**, J. Lund. (2007). The Next Step in Central Valley Flood Management: Connecting Costs and Benefits. *Proceedings of the University Council on Water Resources Annual Conference*, Boise, ID. July 24-26, 2007.
- Newell, C.J., C.E. Aziz, S.K. Farhat, J.M. McDade, **D.L. Rowan**, D. Adamson, and J.B. Hughes. (2003). Low Volume Pulsed Hydrogen Biosparging in an Experimental Controlled Release System. *Battelle Seventh International In Situ and On-Site Bioremediation Symposium*. Orlando, FL. June 2-5, 2003.

## INVITED TALKS

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- Rowangould, D.** (2024) Flood Resilience and Equitable Recovery in Vermont: Mobility, Housing, and Community Connection. Invited presenter in the Water Resources Institute Fall Seminar series, October 21, 2024.
- Rowangould, D.** (2024). Decarbonizing Transportation in Rural and Small Communities: Land Use Matters. Invited workshop presenter at the *Transportation Research Board’s 102nd Annual Meeting*. Washington D.C. January 7 - 11, 2024.
- Rowangould, D.** (2023). Advancing accessibility measurement in practice. Invited presentation to the *State Smart Transportation Initiative*, August 23, 2023.
- Rowangould, G., **Rowangould, D.**, Rubin, J. (2022). Sustainable Transportation in Small and Rural Communities: How do we get there from here? Invited presentation to the *US Climate Alliance*, December 1, 2022.
- Rowangould, D.** (2020). A justice-oriented approach to equitable transportation planning. Invited presentation at the *National Sustainable Transportation Center Caltrans Equity Workshop*, online, November 16, 2020.

## BOOK CHAPTERS

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- Lou, J., **Rowangould, D.**, Karner, A., Niemeier, D. (2023) Access to voting and participation: Does the policy of limiting mail-in ballot dropbox locations in Ohio suppress voter turnout? In *Lessons Learned from the 2020 U.S. Presidential Election: Hindsight is 2020*. Eds. J. Coll and J. Anthony, Palgrave Macmillan Springer Nature. pp 101 – 137.
- Karner, A., London, J., **Rowangould, D.**, and Garoupa-White, C. (2014). “Putting Data into Action for Regional Equity in California’s San Joaquin Valley.” *What Counts: Harnessing Data for America’s Communities*. Federal Reserve Bank of San Francisco and the Urban Institute (eds.), pp. 272-276.

## OTHER REPORTS AND PUBLICATIONS

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- Sullivan, J., **Rowangould, D.** (2023). Speeding Countermeasures for Vermont: Final Project Report. Vermont Agency of Transportation Report 2023-XX. Project VTRC 21-01.
- Rowangould, D.**, Sullivan, J., Pezeshknejad, P\*. (2023). Effectiveness of Rectangular Rapid Flashing Beacons (RRFBs) in Small and Rural Communities. Prepared for the Vermont Agency of Transportation.
- Karner, A., Levine, K., Alcorn, L., Situ, M., **Rowangould, D.**, Kim, K., Kocatepe, A. (2022). Accessibility measures in practice: Guidance for Transportation Agencies. Final Guidebook. Prepared for National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Sciences, Engineering, and Medicine. Project No. 08-121.
- Karner, A., Levine, K., Alcorn, L., Situ, **Rowangould, D.**, M., Kim, K., Kocatepe, A. (2022). Accessibility measures in practice: Guidance for Transportation Agencies. Final Report. Prepared for National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Sciences, Engineering, and Medicine. Project No. 08-121.
- Dowds, J., **Rowangould, D.** (2021) Vermont Transportation Energy Profile. Transportation Research Center at the University of Vermont and Vermont Agency of Transportation.
- D. Rowangould**, Karner, A., Wu, Y., Igbinedion, O., London, J. (2019). Development of Fine-Grained Spatial Resolution for an Integrated Health Impacts Assessment Tool for the Sacramento Region. National Center for Sustainable Transportation. University of California, Davis.
- Karner, A., **Rowangould, D.**, Wu, Y., Igbinedion, O., and London, J. (2017). Development and Application of an Integrated Health Impacts Assessment Tool for the Sacramento Region. National Center for Sustainable Transportation. University of California, Davis.
- Karner, A., **D. Rowangould, D.**, London, J. (2016). We Can Get There From Here: New Perspectives on Transportation Equity. A White Paper from the National Center for Sustainable Transportation at the University of California, Davis.
- Garibay, V., Seaton, P. (with technical assistance from **Rowangould, D.**, Karner, A., Rubin, V., Malekaflzali, S, Flegel, S., Bergstrom, D.) (2014). Health Impact Assessment: California’s SB 375 and its Impact on Kern County’s Disadvantaged Unincorporated Communities and Low Income Urban Neighborhoods.
- Garibay, V., Seaton, P. (with technical assistance from **Rowangould, D.**, Karner, A., Rubin, V., Malekaflzali, S, Flegel, S., Bergstrom, D.) (2014). Health Impact Assessment: California’s SB 375 and its Impact on Fresno County’s Disadvantaged Unincorporated Communities and Low Income Urban Neighborhoods.

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- Heidersback, T., Helgestad, T., McKenna, A., Singh, K., **Rowangould, D.**, Niemeier, D. (2012). Climate Action Plan Technical Report: City of Woodland.
- Heidersback, T., Helgestad, T., McKenna, A., Singh, K., **Rowangould, D.**, Niemeier, D. (2012). Climate Action Plan Technical Report: City of Winters.
- Newell, C.J., J.A. Conner, **D.L. Rowan.** (2003). Groundwater Remediation Strategies Tool. American Petroleum Institute Publication Number 4730, December 2003.

## CONTRIBUTIONS TO PRACTICE

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- UVM Transportation Research Center (2023). Traffic Safety Toolbox: Speeding Countermeasures Toolbox for Vermont. Prepared for the Vermont Agency of Transportation.
- Sustainable Systems Research (2019). Evaluation of Vulnerability and Stationary Source Pollution in Houston. Prepared for Natural Resources Defense Council.
- Sustainable Systems Research (2018). China Shipping Terminal: Excess Emissions from Modified Final Environmental Impact Report Mitigations. Prepared for Natural Resources Defense Council.
- Sustainable Systems Research (2018). SDG&E Transportation Electrification SB 350: Medium, Heavy Duty Program. Prepared for EarthJustice.
- Sustainable Systems Research (2017). Evaluation of Electrification of Los Angeles Metropolitan Transportation Authority Buses. Prepared for EarthJustice.
- Sustainable Systems Research (2017). Evaluation of Authorized and Unauthorized Point Source Emissions in the Manchester Neighborhood of Houston, Texas. Prepared for Natural Resources Defense Council.
- Sustainable Systems Research (2017). Review of the 2017 Albuquerque/Bernalillo County Community-Scale Air Toxics Monitoring and Risk Assessment Protocol. Prepared for New Mexico Environmental Law Clinic.
- Sustainable Systems Research (2017). Evaluation of the Port of New York / New Jersey Clean Trucks Program Rollback. Prepared for Coalition for Healthy Ports.
- Sustainable Systems Research (2015). Traffic Impacts of the Proposed Waste Transfer Station in Albuquerque, New Mexico. Prepared for Bernalillo County Commissioner Debbie O'Malley.
- Sustainable Systems Research (2015). Air Quality Impacts of Well Stimulation and Recommendations for the SB4 Draft Environmental Impact Report. 2015. Prepared for Natural Resources Defense Council.
- Sustainable Systems Research (2015). Southern California International Gateway (SCIG) Demographic Analysis. 2015. Prepared for Natural Resources Defense Council.
- Sustainable Systems Research (2015). The Honstein Oil Air Permit, Cumulative Risks, and Equity. Prepared for Southwest Organizing Project.
- Sustainable Systems Research (2014). Central New Mexico Climate Change Report: Transportation and Land Use Climate Resilience. Prepared for Ecosystem Management Inc.
- Sustainable Systems Research (2014). Review of the WesPac Pittsburg Energy Project Recirculated Draft Environmental Impact Report. Prepared for Natural Resources Defense Council.
- Sustainable Systems Research (2013). Kansas City, KS Community Mapping: Air Pollution and Environmental Justice. Prepared for Natural Resources Defense Council.

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- Sustainable Systems Research (2013). Review of the Bayonne Bridge Navigational Clearance Program Draft Environmental Assessment: Air Quality and Environmental Justice Impacts of Induced Demand at the Port of NY/NJ. Prepared for Eastern Environmental Law Center and Natural Resources Defense Council.
- Sustainable Systems Research (2013). Port of NY/NJ Area Mapping: Air Pollution, Health, and Environmental Justice Communities. Prepared for Eastern Environmental Law Center and Natural Resources Defense Council.
- Sustainable Systems Research (2012). Review of the Summerhill Homes/Magee Ranch Draft Environmental Impact Report. Prepared for Save Our Creek.
- Sustainable Systems Research (2012). Danville General Plan Review. Prepared for Save Our Creek.
- Sustainable Systems Research (2012). Review of Transportation and Circulation Analysis in the Southern California International Gateway (SCIG) Project Recirculated Draft Environmental Impact Report. Prepared for Natural Resources Defense Council.
- Sustainable Systems Research (2012). Coal Dust and Rail: Impacts of Coal Transport from the Powder River Basin. Prepared for Natural Resources Defense Council.
- Sustainable Systems Research (2012). Review of the Transportation and Air Quality Analysis in the I-710 Draft Environmental Impact Report. Prepared for East Yard Communities for Environmental Justice and Natural Resources Defense Council
- Sustainable Systems Research (2012). Ports and Air Quality: Moving Toward Clean Cargo. Prepared for Natural Resources Defense Council.
- D. Neimeier, **D. Rowan**, A. Karner. (2012). Evaluation of the Proposed Plan Bay Area Project Performance and Benefit Cost Assessment. Prepared for TransForm.

## AWARDS

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- 2024 High Value Research Award, American Association of State Highway and Transportation Officials (AASHTO) (for *Traffic Safety Toolbox: Speeding Countermeasures Toolbox for Vermont*)
- Outstanding Faculty Advisor Award, UVM (2024)
- Award for Excellence in Student Advising, UVM College of Engineering and Mathematical Sciences (2024)
- 2023 High Value Research Award, American Association of State Highway and Transportation Officials (AASHTO) (for *Effectiveness of Rectangular Rapid Flashing Beacons (RRFBs) in Small and Rural Communities*)
- 2022 Research Symposium People's Choice Award, Vermont Agency of Transportation (for *Traffic Safety Toolbox: Speeding Countermeasures Toolbox for Vermont*)

### Student research awards:

- Distinguished Undergraduate Research, College of Agriculture and Life Sciences at UVM (Julia LanzDuret Hernandez, 2023)
- Best research presentation, ITE Northeastern District Meeting (Sierra Espeland, 2023)
- Top Ranked Masters Fellowship Fellow, US DOT Dwight D. Eisenhower Transportation Fellowship Program (Sierra Espeland, 2022)
- US DOT Dwight D. Eisenhower Fellow (Sierra Espeland, 2021-22, 2022-23)

## GRANTS

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- “Assessing electric vehicle benefits in a rural, cold, and mountainous region.” *National Center for Sustainable Transportation at University of Vermont*. D. Rowangould (PI). 2024-2025
- “GHG Reductions due to VT Clean Transportation Incentive Programs.” *Vermont Agency of Transportation*. D. Rowangould (PI). 2024 – 2025
- “Center for Emissions Reduction, Resiliency, and Climate Equity in Transportation.” U.S. Department of Transportation. D. Rowangould (key personnel). 2024 – 2025
- “Advancing equitable electric vehicle adoption: Addressing home charging barriers and costs.” *National Center for Sustainable Transportation at University of Vermont*. D. Rowangould (PI). 2024-2025
- “NCHRP 08-159: How to Assess and Address Equity of Access to Essential Goods and Services.” *National Highway Cooperative Research Program*. D. Rowangould (co-PI, UVM lead). 2024-2025
- “Rural Mobility, Housing, and Infrastructure: Flood Resilience and Equitable Recovery in Vermont” *UVM Office of Vice President of Research and Gund Institute*. D. Rowangould (co-PI). 2023 – 2024.
- “National Center for Sustainable Transportation.” *US Department of Transportation*. D. Rowangould (key personnel). 2023-2028
- “Enabling Place-Based Renewable Power Generation using Community Energysghed Design” *US Department of Energy*. D. Rowangould (key personnel). 2023 – 2026.
- “NSF-SAI: Uncovering Barriers to Low-Carbon Travel to Strengthen Transportation Infrastructure in Rural Communities” *National Science Foundation*. D. Rowangould (PI). 2022 – 2024.
- “Development and Application of a Cost-Benefit Tool for Quantifying External Social Impacts of Small to Mid-Size Transportation Projects” *National Transportation Infrastructure Durability Center at University of Vermont*. D. Rowangould (co-PI). 2022 – 2024.
- “Health Equity and Community Design Technical Assistance Pilot” *Vermont Department of Health*. D. Rowangould (Key Personnel, UVM Lead). 2022 – 2023.
- “Evaluation of travel and the built environment in small and rural communities” *National Center for Sustainable Transportation at University of Vermont*. D. Rowangould (PI). 2022 – 2023.
- “Voting Accessibility and Voter Suppression: Building Capacity to Quickly Evaluate the Effects of Changes in Voting Locations” *Democracy Fund*. D. Rowangould (co-PI, UVM Lead). 2021 – 2022.
- “Traffic Safety Toolbox – Addressing Speeds” *Vermont Agency of Transportation*. D. Rowangould (PI). 2021 – 2022.
- “Evaluation of travel constraints and travel burdens in the US and in rural zero-car households” *National Center for Sustainable Transportation at University of Vermont*. D. Rowangould (PI). 2020 – 2022.
- “Effectiveness of Rectangular Rapid Flashing Beacons (RRFBs) at Mid-Block Crosswalks” *Vermont Agency of Transportation*. D. Rowangould (co-PI). 2020 – 2022.
- “Accessibility analysis to determine transit equity in major US Cities” *TransitCenter*. D. Rowangould (co-PI, UVM lead) 2020 – 2021.
- “NCHRP 08-121 Accessibility Measures in Practice: Guidance for Transportation Agencies” *National Cooperative Highway Research Program*. D. Rowangould (co-PI and SSR lead). 2019 – 2021.
- “Development of Fine-Grained Spatial Resolution for an Integrated Health Impacts Assessment Tool for the Sacramento Region” *UC Davis National Center for Sustainable Transportation*. D. Rowangould (Key Personnel and SSR lead). 2017 – 2018.

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“Development and Application of an Integrated Health Impacts Assessment Tool for Sacramento Transportation Plans” *UC Davis National Center for Sustainable Transportation*. D. Rowangould (co-PI and SSR lead). 2016 – 2017.

“You Can Get There from Here: New Perspectives on Transportation Equity” *UC Davis National Center for Sustainable Transportation*. D. Rowangould (Key Personnel and SSR lead). 2015 – 2016.