

DR. DANA (ROWAN) ROWANGOULD

Assistant Professor, Civil and Environmental Engineering
University of Vermont, Burlington, VT
Dana.Rowangould@uvm.edu

EDUCATION

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

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

- Rowangould, D.**, Levine, K., Karner, A. (in press) "I'd like accessibility analysis to help us shape the future": Transportation practitioners and accessibility measurement. Accepted for publication in *Transportation Research Record: Journal of the Transportation Research Board*.
- 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.
- 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.

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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.

* Student advisee

SCHOLARLY PRESENTATIONS

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.

Pezechknejad, 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., 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., **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.

Pezechknejad, 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., **Rowangould, D.** (2023) When the Stakes are High: Evacuation Quality and Equity. Presented at the *Transportation Research Board's 48th Natural Hazards Research and Applications Workshop*. Broomfield, CO, July 9 – 13th 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 116th Annual Conference and Exhibition*. Orlando, FL. June 6 – 8, 2023.

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- LanzDuret-Hernandez, J. *, Grajdura, S., **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. (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.
- 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? *6th 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. *16th International Network on European Communications and Transport Activity Research (NECTAR) Conference*. Toronto, Canada. July 20 – 22, 2022.

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- 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 101st 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 61st 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.
- 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., Klumpenhouwer, 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 61st 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 100th 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. *60th 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

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- Rowangould, D.**, Rowangould, G., Niemeier, D. (2018) Evaluation of the Health Impacts of Rolling Back a Port Clean Trucks Program. *Transportation Research Board's 97th 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 97th 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 94th Annual Meeting*. Washington, DC. January 11-15, 2015.
- 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 93rd 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.

* Student advisee

INVITED TALKS

- 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.

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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

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

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.

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- Garibay, V., Seaton, P. (with technical assistance from **Rowangould, D.**, Karner, A., Rubin, V., Malekafzali, 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., Malekafzali, 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.
- 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

- 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.

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- 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.
- 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

Research awards:

- American Association of State Highway and Transportation Officials (AASHTO) High Value Research (Effectiveness of Rectangular Rapid Flashing Beacons (RRFBs) in Small and Rural Communities)
- Vermont Agency of Transportation 2022 Research Symposium People's Choice Award (Traffic Safety Toolbox: Speeding Countermeasures Toolbox for Vermont)

Student 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

- “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 Energysshed Design” *US Department of Energy*. D. Rowangould (key personnel). 2023 – 2026.
- “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.
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