

# DR. GREGORY ROWANGOULD

Department of Civil and Environmental Engineering  
The University of Vermont, 33 Colchester Ave, Votey Hall 353, Burlington, VT 05405  
Gregory.Rowangould@uvm.edu

## EDUCATION

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- PhD**    **University of California, Davis (2010)**  
*Civil and Environmental Engineering: concentration in Transportation*  
Dissertation: "A Spatially Detailed Locomotive Emission Model and Goods Movement Data Constraints on Public Policy and Planning"
- MS**    **University of Maine, Orono (2006)**  
*Resource Economics and Policy: concentration in Environmental Economics*  
Thesis: "A Spatial Analysis of Passenger Vehicle Attributes, Environmental Impact and Policy"
- BS**    **University of Maine, Orono (2003)**  
*Chemical Engineering*

## PROFESSIONAL EXPERIENCE

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- University of Vermont, Burlington, VT**  
*Associate Professor, Department of Civil & Environmental Engineering* 8/2019 – current
- Sustainable Systems Research (SSR), LLC, Davis, CA** 5/2017 – current  
*Principle, SSR is small consulting firm made up of academics that works exclusively to assist disadvantaged communities with technical transportation and environmental analysis.*
- University of New Mexico, Albuquerque, NM**  
*Associate Professor, Department of Civil, Construction & Environmental Engineering* 6/2019 – 8/2019  
*Director, New Mexico Local Technical Assistance Program (NM LTAP) Center* 4/2017 – 8/2019  
*Assistant Professor, Department of Civil, Construction & Environmental Engineering* 8/2012 – 6/2019
- Natural Resources Defense Council, Santa Monica, CA** 7/2010 – 7/2012  
*Transportation and Air Quality Science Fellow*
- University of California, Davis, CA** 9/2006 – 7/2010  
*Research Assistant, Department of Civil & Environmental Engineering*
- University of California, Davis, CA** 3/2009 – 6/2009  
*Teaching Assistant, Department of Civil & Environmental Engineering* 3/2010 – 6/2010
- University of Maine, Orono, ME** 9/2004 – 8/2006  
*Research Assistant, Department of Resource Economics & Policy and the Margaret Chase Smith Policy Center*
- National Semiconductor, South Portland, ME** 5/2000 – 9/2000  
*Process Engineer, co-op program* 5/2001 – 8/2001  
3/2004 – 8/2004
- Fairchild Semiconductor, South Portland, ME** 5/2002 – 1/2003  
*Process Engineer, co-op program*

## AWARDS AND HONORS

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- Best Paper Award, Fall 2017 & Spring 2015** Spring 2015  
*Civil Engineering Department, University of New Mexico* & Fall 2017

**Young Professional Runner-Up Best Paper Award** June 25, 2015  
 Environmental Management Group, Air & Waste Management Association 108<sup>th</sup> Annual Conference, Raleigh, NC

**Young Professional Best Paper Award** June 25, 2014  
 Environmental Management Group, Air & Waste Management Association 107<sup>th</sup> Annual Conference, Long Beach, CA

**NATIONAL/REGIONAL/LOCAL SERVICE**

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**2019 Transportation Research Board Annual Meeting, Washington, D.C.** 6/2019 – current  
 Workshop: Use and Abuse of Mobile Source Air Quality Modeling in Environmental Law and Litigation  
*Organizer & Chair*

**Transportation and Air Quality Committee (ADC20), Transportation Research Board of the National Academies, Washington, D.C.**  
 Committee Member & Research Subcommittee Vice Chair 5/2017 – current  
 Committee Member & Paper Review Co-Chair 4/2014 – 4/2017

**Transportation Research Part D: Transport and Environment, Elsevier Ltd.** 1/2017 – current  
 Member of the Editorial Board

**Southwest Bike Initiative** 12/2016 - current  
 Member of the Advisory Board

**National Cooperative Highway Research Program, Transportation Research Board of the National Academies, Washington, D.C.** 10/2014 – current  
*Panel Member*, NCHRP Project 08-102 – Bicycle Facility Preferences and Effects on Increasing Bicycle Trips

**2015 Transportation Research Board Annual Meeting, Washington, D.C.** 6/2015 – 1/2015  
 Workshop: Integrated Land-use, Travel Demand, Air Quality & Exposure Modeling: The Future of Regional Transportation Planning?  
 Organizer, Co-Chair & Moderator

**Sustainable Cities and Society, Elsevier Ltd.**  
 Member of the Editorial Board 10/2014 – 2/2018  
 Editor of Special Edition on Transportation 2/2016 – 8/2017

**2017 International Cycling Safety Conference, University of California, Davis, CA** 9/2017  
 Member of the Scientific Committee and Session Chair

**Central New Mexico Climate Change Scenario Planning Project, US Department of Transportation & Mid-Region Council of Governments** 11/2013 – 6/2014  
 Member, Mitigation Technical Committee

**Air and Waste Management Association Annual Conference, Raleigh, NC** 6/24/2015  
 Session Chair, Modeling Transportation Emissions

**Statewide Public Health, Safety, and Security Working Group, New Mexico Department of Transportation** 11/2013 – 10/2015  
 Working Group Member

**Land-Use Transportation Integration Committee, Mid-Region Council of Governments, Albuquerque, NM** 12/2012 – 6/2014  
 Committee Member

**UNIVERSITY SERVICE**

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**Faculty Senate Budget Committee, UNM** 8/2016 – 8/2019  
 Member

**Graduate Committee, Department of Civil, Construction and Environmental Engineering, UNM** 8/2017 – 8/2019

Member

**Institute of Transportation Engineers, UNM Student Chapter** 8/2016 – 8/2019  
Faculty Advisor

**Strategic Initiatives/Planning Committee, Department of Civil, Construction and Environmental Engineering, UNM**  
Chair, main task has been developing and updating the department's strategic plan 8/2014 – 8/2019  
Member 8/2012 – 5/2014

**Transportation and Paving Conference, Albuquerque, NM**  
Member, conference organizing committee 8/2012 – 8/2019  
Chair & Moderator, Sekreta Session – a session that focuses on alternative modes of transportation and renewable energy supported by an endowment from the Sekreta family; Moderator of various other sessions through the years. 2012 – 2018, annually

**UNM Summer Transportation Institute, School of Engineering, UNM** 2013 – 2018, annually  
Provide a lesson on transportation engineering and planning to high school students enrolled in this program

**Undergraduate Committee, Department of Civil, Construction and Environmental Engineering, UNM** 8/2015 – 5/2016  
Member

**Service Learning Advisory Board, UNM** 8/2015 – 5/2016  
Member

**Liberal Arts & Integrative Studies Faculty Advisory Committee, University College, UNM** 8/2015 – 5/2016  
Member

## CONSULTING SERVICE

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**Freedman Boyd Hollander Goldberg Urias & Ward P.A., Albuquerque, NM** 5/2016 – 8/2016  
Technical review of Albuquerque's ART bus rapid transit project for local community and business groups.

**ICF Incorporated, LLC, Fairfax, VA** 5/2014 – 12/2014  
Provided consulting services to ICF for a Federal Highway Administration and Centers for Disease Control project to develop a community health risk tool. Project website and tool available at <http://www.transportation.gov/transportation-health-tool/indicators>

**United States Environmental Protection Agency, Anne Arbor, MI.** 11/2013 – 12/2013  
Provided a scientific review of a US EPA sponsored air quality research project

**Communities for a Better Environment, Huntington Park, CA.** 11/2011 – 8/2012  
Provided transportation planning and air quality consulting services to Communities for a Better Environment

**The Ride for Roswell, Buffalo, NY** 4/2011 – 6/2011  
Pro bono consulting, bicycle traffic modeling and planning for a charitable community bicycle ride

**Pew Center on Global Climate Change, Washington, D.C.** 12/2008 – 8/2009  
Developed a research report investigating the GHG mitigation potential for domestic and international marine shipping and aviation

## PEER REVIEWED JOURNAL PAPERS

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1. Rowangould, D., G. Rowangould, E. Craft and D. Niemeier. (2019) *Validating and Refining EPA's Traffic Exposure Screen Method*. International Journal of Environmental Research and Public Health, 16 (3). doi:10.3390/ijerph16010003
2. Rowangould, G., R. Nadafianshahamabadi\*, and A. Poorfakhraei\*. (2018). *Programming Flexible Congestion Mitigation and Air Quality Program Funds: Best Practices for State DOTs*. Transportation Research Record: Journal of the Transportation Research Board of the National Academies. doi.org/10.1177/0361198118782801

3. Rowangould, D., **G. Rowangould**, and D. Niemeier. (2018). *Evaluation of the Health Impacts of Rolling Back a Port Clean Trucks Program*. Transportation Research Record: Journal of the Transportation Research Board of the National Academies. doi.org/10.1177/0361198118782801
4. Tayarani\*, M., Nadafianshahamabadi\*, R., Poorfakhraei\*, A., **Rowangould, G.** (2018). *Evaluating the cumulative impacts of a long range regional transportation plan: Particulate matter exposure, greenhouse gas emissions, and transportation system performance*. Transportation Research Part D: Transport and Environment 63, 261–275. doi.org/10.1016/j.trd.2018.05.014
5. Tayarani\*, M., Poorfakhraei\*, A., Nadafianshahamabadi\*, R., **Rowangould, G.** (2018). *Can regional transportation and land-use planning achieve deep reductions in GHG emissions from vehicles?* Transportation Research Part D: Transport and Environment 63, 222–235. doi.org/10.1016/j.trd.2018.05.010
6. Poorfakhraei, A\*, M. Tayarani\*, and **G. Rowangould.** (2017). *Evaluating Health Outcomes from Vehicle Emissions Exposure in the Long Range Regional Transportation Planning Process*. Journal of Transport & Health. 6: 501-515.
7. Nadafianshahamabadi, R\*, M. Tayarani\*, and **G. Rowangould.** (2017). *Differences in Expertise and Values: Comparing Community and Expert Assessments of a Transportation Project*. Sustainable Cities and Society. doi:10.1016/j.scs.2016.08.027
8. Tayarani, M\*, A. Poorfakhraei\*, R. Nadafianshahamabadi\*, and **G. Rowangould.** (2016). *Evaluating unintended outcomes of regional smart-growth strategies: Environmental justice and public health concerns*. Transportation Research Part D: Transport and Environment 49, 280–290. doi:10.1016/j.trd.2016.10.011
9. **Rowangould, G.** and M. Tayarani\* (2016). *The Effect of Bicycle Facilities on Travel Mode Choice Decisions*. ASCE Journal of Urban Planning and Development. doi: 10.1061/(ASCE)UP.1943-5444.0000341
10. Poorfakhraei, A.\* and **G. Rowangould** (2015). *Estimating Welfare Change Associated with Improvements in Urban Bicycling Facilities*. ASCE Journal of Transportation Engineering. 141(11): 04015025.
11. **Rowangould, G.** (2015). *A New Approach for Evaluating Regional Exposure to Particulate Matter Emissions from Motor Vehicles*. Transportation Research Part D: Transport and Environment. 34: 307-317.
12. **Rowangould, G.** (2013). *Public Financing of Private Freight Rail Infrastructure to Reduce Highway Congestion: A Case Study of Public Policy and Decision Making in the United States*. Transportation Research Part A: Policy and Practice. 57: 25-36.
13. **Rowangould, G.** (2013). *A Census of the United States Near-Roadway Population: Public Health and Environmental Justice Considerations*. Transportation Research Part D: Transport and Environment. 2: 59-67.
14. **Gould, G.** and D. Niemeier (2011). *Assignment of Emissions Using a New Locomotive Emissions Model*. Environmental Science and Technology. 45(13): 5846- 5852.
15. **Gould, G.** and A. Karner (2009). *Modeling Bicycle Facility Operation: a Cellular Automaton Approach*. Transportation Research Record: Journal of the Transportation Research Board of National Academies. 2140: 157-164.
16. **Gould, G.** and D. Niemeier (2009). *Review of Regional Locomotive Emission Modeling and the Constraints Posed by Activity Data*. Transportation Research Record: Journal of the Transportation Research Board of the National Academies. 2117: 24-32.
17. Niemeier, D., **G. Gould**, A. Karner, M. Hixson, B. Bachmann, C. Okma, Z. Lang and D. Heres Del Valle (2008). *Rethinking downstream regulation: California's opportunity to engage households in reducing greenhouse gases*. Energy Policy, 36(9)

\*Students advised by Dr. Rowangould

## PEER REVIEWED CONFERENCE PAPERS

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1. Corning-Padilla, A.\*, and **G. Rowangould**. (January 14, 2019) *Sustainable and Equitable Financing for Pedestrian Infrastructure Maintenance*. Presentation at the 98th Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
2. Tayarani, M. \* and **G. Rowangould**. (January 15, 2019) *Differences in Exposure to Vehicle Emissions: Comparing Dynamic and Static Analysis*. Presentation at the 98th Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
3. Nadafianshahamabadi, R\*., A. Corning-Padilla\*, M. Tayarani\*, and **G. Rowangould**. (January 16, 2019) *Integrated Travel Demand and Land Use Modeling for Evaluating the Congestion and Land Use Effects of Autonomous Vehicles*. Presentation at the 98th Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
4. Montano, S\*. and **G. Rowangould**. (January 9, 2018). *Evaluating the Role of Federal Transportation Funding Flexibility and Investments in Bicycle and Pedestrian Infrastructure*. Presentation at the 97<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
5. Mohammad, T\*., R. Nadafianshahamabadi\*, A. Poorfakhraei\* and **G. Rowangould**. (January 9, 2018). *Evaluating the Cumulative Air Quality Impacts of a Long Range Regional Transportation Plan*. Presentation at the 97<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
6. **Rowangould, G.**, R. Nadafianshahamabadi\*, and A. Poorfakhraei\*. (January 9, 2018). *Programming Flexible Congestion Mitigation and Air Quality Program Funds: Best Practices for State DOTs*. Presentation at the 97<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
7. Dana, R., **G. Rowangould**, and D. Niemeier. (January 8, 2018). *Evaluation of the Health Impacts of Rolling Back a Port Clean Trucks Program*. Presentation at the 97<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
8. Nadafianshahamabadi, R.\* and **G. Rowangould** (January 10, 2017). *Evaluating Sustainability in Transportation Plans: Review of Long-Range Transportation Plans in the United States*. Presentation at the 96<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
9. Tayarani, M\*, A. Poorfakhraei\* and **G. Rowangould** (January 10, 2017). *Can Regional Transportation and Land-Use Planning Reduce GHG Emissions?* Presentation at the 96<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
10. Rodriguez, M.\* and **G. Rowangould** (January 11, 2017). *The Current State of Sidewalk ADA Compliance and Alternative Funding Methods for Albuquerque, NM*. Presentation at the 96<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
11. Tayarani, M\*, A. Poorfakhraei\*, and **Rowangould, G.** (August 4, 2016). *Can Regional Transportation and Land-Use Planning Reduce GHG Emissions?* Presented at the Transportation Research Board of the National Academies Summer Conference on Transportation Planning and Air Quality, Minneapolis, MN.
12. Tayarani, M\*, A. Poorfakhraei\*, and **Rowangould, G.** (August 5, 2016). *Quantifying the Air Quality & Congestion Benefits of Bicycle Facilities*. Presented at the Transportation Research Board of the National Academies Summer Conference on Transportation Planning and Air Quality, Minneapolis, MN.
13. Nadafianshahamabadi, R.\*, M. Tayarani\*, and **G. Rowangould** (January 12, 2016). *Differences in Expertise and Values: Comparing Community and Expert Assessments of a Transportation Project*. Presentation at the 95<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.

14. Moreno, S. A.\* , R. R. Gade\*, and **G. Rowangould** (January 13, 2016). *Investigating Pedestrian Crash Risk in Albuquerque, New Mexico*. Presentation at the 95<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
15. Tayarani, M.\* , A. Poorfakhraei\*, R. Nadafianshahamabadi\*, and **G. Rowangould** (January 13, 2016). *Large-Scale, High-Resolution Air Quality Modeling Framework to Evaluate Environmental Justice in Long-Range Transportation Planning*. Presentation at the 95<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
16. Poorfakhraei, A.\* , and **G. Rowangould** (January 11, 2016) *Evaluating Mobile-Source Air Pollution Exposure, Equity, and Health Risks in Long-Range Regional Transportation Plans*. Presentation at the 95<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
17. **Rowangould, G.**, A. Poorfakhraei\*, and M. Tayarani\* (June 24, 2015). *A New Approach for Evaluating Regional Exposure to Particulate Matter Emissions from Motor Vehicles*. Presented at the Air & Waste Management Association Annual Conference, Raleigh, NC
18. Poorfakhraei, A.\* and **G. Rowangould** (January 14, 2015). *Economic Valuation of Improvements in Urban Cycling Facilities*. Presented at the 94<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
19. **Rowangould, G.** and M. Tayarani\* (January 12, 2015). *The Effect of Bicycle Paths on the Decision to Commute by Bicycle*. Presented at the 94<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
20. Tayarani, M.\* and **G. Rowangould** (January 12, 2015). *Quantifying the Air Quality and Congestion Benefits of Bicycle Facilities: A Case Study from Albuquerque New Mexico*. Presented at the 94<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
21. **Rowangould, G.** (March 3, 2014). *Using AERMOD for Regional Transportation Planning: Exposure Analysis, Environmental Justice, and Pro-Active Hot-spot Analysis*. Presented at the Transportation, Land Use Planning, and Air Quality Conference, Charlotte, NC
22. **Rowangould, G.** (June 25, 2014). *Regional Long Range Transportation Plan Air Quality and Exposure Analysis*. Presented at the Air & Waste Management Association 107<sup>th</sup> Annual Conference, Long Beach, CA
23. **Rowangould, G.** and J. Luna (January 2014). *Does Dedicated Bicycle Infrastructure Reduce Motorized Vehicle Trips? Results from the Albuquerque Bicycle Travel Study*. Presented at the 93<sup>rd</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
24. **Gould, G.** and S. Contreras\* (January 15, 2013). *Regional Scale Dispersion Modeling and Analysis of Directly Emitted Fine Particulate Matter from Highway Vehicles Using AERMOD*. Presented at the 92<sup>nd</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
25. **Gould, G.** (January 15, 2013). *A Census of the U.S. Near Roadway Population: Particulate Matter Exposure, Environmental Justice, and Coverage of the Air Quality Monitoring Network*. Presented at the 92<sup>nd</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
26. **Gould, G.** and D. Niemeier (January 12, 2010). *A Geographically Detailed Locomotive Emission Model*. Presented at the 89<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
27. **Gould, G.** and A. Karner (January 14, 2009). *Modeling Bicycle Facility Operation: a Cellular Automaton Approach*. Presented at the 88<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academies, Washington, D.C.
28. **Gould, G.** and D. Niemeier (January 12, 2009). *Review of Regional Locomotive Emission Modeling and the Constraints Posed by Activity Data*. Presented at the 88<sup>th</sup> Annual Meeting of the Transportation Research Board of the National

Academies, Washington, D.C.

\*Students advised by Dr. Rowangould

## PEER REVIEWED REPORTS

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1. **Rowangould, G.** and A. Corning Padilla\* (August 2018). *Sustainable and Equitable Financing for Pedestrian Infrastructure Maintenance*. Prepared by the University of New Mexico for the Transportation Consortium of South Central States (TranSET), Louisiana State University, Baton Rouge, LA
2. McCollum, D., **G. Gould**, and D. Greene (December 2009). *Greenhouse Gas Emissions from Aviation and Marine Transportation: Mitigation Potential and Policies*. Report prepared for the Pew Center on Global Climate Change, Washington D.C. <https://www.c2es.org/document/greenhouse-gas-emissions-from-aviation-and-marine-transportation-mitigation-potential-and-policies/>

\*Students advised by Dr. Rowangould

## OTHER REPORTS AND PUBLICATIONS

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1. **Rowangould, G.**, R. Nadafianshahamabadi\*, A. Corning Padilla\*, and M. Tayarani\* (August 2018). *Autonomous Vehicle Traffic Impact Scenario Analysis: Central New Mexico Case Study - Final Report*. Prepared by the University of New Mexico for the New Mexico Department of Transportation, Santa Fe, NM.
2. **Rowangould, G.**, R. Nadafianshahamabadi\*, and J. Seymour\* (March 2018). *National Performance Management Research Data Set (NPMRDS) Best Practices Scan*, Prepared by the University of New Mexico for the New Mexico Department of Transportation, Santa Fe, NM.
3. **Rowangould, G.**, R. Nadafianshahamabadi\*, A. Poorfakhraei\*, S. Bogus Halter (May 2017) *Congestion Mitigation and Air Quality Program Best Practices Scan, Final Report*. Prepared by the University of New Mexico for the New Mexico Department of Transportation, Santa Fe, NM.
4. *Futures 2040: Metropolitan Transportation Plan*, Mid Region Council of Governments, Albuquerque, NM. (**G. Rowangould** was one of many contributors and co-authors)
5. **Rowangould, G.**, M. Tayarani\*, and A. Poorafakhraei\* (April, 2015). *Futures 2040: Metropolitan Transportation Plan - Appendix F: GHG Emissions Reduction Strategies*, Mid Region Council of Governments, Albuquerque, NM.
6. Lee, S., Tremble, M. Vaivai, J., **Rowangould, G.**, Tayarani, M.\*, Poorfakhraei, A.\* (March, 2015). *Central New Mexico climate change scenario planning project: final report*. Report prepared for the U.S. Department of Transportation, U.S. Federal Highway Administration and Mid Region Council of Governments.
7. Lee, S., M. Tremble, J. Vaivai, Herrington, C., R. Gonzalez-Pinzon, M. Stone, and **G. Rowangould** (December, 2014). *Climate Change Effects on Central New Mexico's Land Use, Transportation System and Key Natural Resources*. Report prepared by Ecosystem Management Inc. and the University of New Mexico for the U.S. Department of Transportation VOLPE Center, Cambridge, MA
8. **Rowangould, G.**, M. Tayarani\*, and A. Poorafakhraei\* (November, 2014) *Central New Mexico Climate Change Scenario Planning Project: Analysis of Additional Greenhouse Gas Mitigation Strategies*. Report prepared by the University of New Mexico for the U.S. Department of Transportation VOLPE Center, Cambridge, MA
9. Lee, S., M. Tremble, J. Vaivai, Herrington, C., R. Gonzalez-Pinzon, M. Stone, and **G. Rowangould** (May 2014) *Climate Change Resilience of Land Use, Transportation and Key Natural Resources in Central New Mexico*. Report prepared by Ecosystem Management Inc., Sustainable Systems Research LLC. and the University of New Mexico for the U.S. Department of Transportation VOLPE Center, Cambridge, MA

10. **Gould, G.** (2012) *Analysis of Greenhouse Gas Emission Estimates for the Interstate 710 Corridor Project*. Report Prepared for Communities for a Better Environment, Huntington Park, CA.
11. **Gould, G.** (2012) *Analysis of the Alternatives Selection Process for the Interstate 710 Corridor Project*. Report Prepared for Communities for a Better Environment, Huntington Park, CA.
12. **Gould, G.** (2012) *Physical Separation of the Chicago Area Waterway System: The Economic and Environmental Impact of Barge Traffic Disruption*. NRDC Working Paper.
13. C. Noblet, **G. Gould**, J. Rubin, D. Innis, and C. Morris (2006). *Sustainable Transportation Funding for Maine's Future*. Report prepared for the Maine Department of Transportation, Augusta, ME.

\*Students advised by Dr. Rowangould

### **INVITED SCHOLARY PRESENTATIONS**

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1. Rowangould, G. (April 30, 2019). *Autonomous Vehicles & Land-use Change: An Integrated Modeling Analysis in ABQ*. Invited participant and speaker at the Autonomous Vehicle Modeling Expert Group Meeting, University of California, Davis, CA.
2. Rowangould, G. (August 24, 2017). *Is Long-Range Regional Transportation Planning in the United States Effective?* Invited Workshop Speaker, Smart Cities – Governing Accessibility, Air Pollution and Equity, University of Sao Paulo, Brazil
3. Rowangould, G. (October 28, 2016). *Are Metropolitan Planning Organizations Effective?* Invited seminar at the Department of Economics, University of New Mexico.
4. Rowangould, G. (October 8, 2016). *Transportation Disruptions*. Invited panelist at Symposium: Celebrating 25 Years of Research and Impact, Institute of Transportation Studies, University of California, Davis, CA
5. Rowangould, G. (February 2, 2016). *Can Metropolitan Planning Organizations Stop Rising Greenhouse Gas Emissions?* Invited presentation to the New Mexico chapter of the Air and Waste Management Association, Albuquerque, NM.
6. Rowangould, G. (November 14, 2014). *The Effect of Bicycle Facilities on the Decision to Commute by Bicycle, Congestion and Air Quality: New Evidence from Albuquerque, New Mexico*. Invited seminar at the Institute for Transportation Studies, University of California, Davis, CA
7. Rowangould, G. (May 2, 2014). *Integrating Air Dispersion and Regional Travel Demand Models: Opportunities and limitations*. Invited presentation at the Transdisciplinary Workshop on Transportation and Public Health, McGill University, Montreal, Canada
8. Rowangould, G. (November 8, 2013). *Sustainable Transportation Systems: 2013 and Beyond*, Invited presentation, Emerging Trends in Sustainable Transportation Performance Measures: An Open Workshop, Santa Fe, NM
9. Rowangould, G. (April 9, 2013). *Regional Scale Dispersion Modeling and Analysis of Directly Emitted Fine Particulate Matter from Highway Vehicles using AERMOD*. Invited presentation to the United States Environmental Protection Agency, Washington, D.C.
10. Rowangould, G. (March 8, 2013). *Raising The Grade: Innovative Financing and Technology Practices to Save Our Infrastructure*. Invited panel speaker at the Spring Meeting of the New Mexico Section of the American Society of Civil Engineers, Albuquerque, NM
11. Gould, G. (October 9, 2009). *Considering Goods Movement: Air Quality and Climate Change Issues in Planning and Policy*. Invited seminar at the School of Economics, University of Maine, Orono, ME.
12. Gould, G. (December 6, 2005). *A spatial analysis of passenger vehicle attributes, environmental impact and policy*. Invited



seminar at the Cambridge Center for Climate Change Research, University of Cambridge, Cambridge, UK.

## FUNDING HISTORY

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**Total Funding as Lead PI: \$1,288,756**

**Total Funding as PI, Co-PI or key participant: \$6,372,579**

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<b>National Science Foundation</b> Center for Water and Environment Phase II Role: key participant, Funding: \$5,000,000	7/2019 – current
<b>New Mexico Department of Transportation</b> Management of the New Mexico Local Technical Assistance Program Role: PI, Funding: \$146,500	4/2019 – current
<b>TranSET University Transportation Center, Louisiana State University/U.S. DOT</b> Evaluating how the Quality of Pedestrian Infrastructure Affects the Choice to Walk Role: PI, Funding: \$50,000	3/2018 – current
<b>U.S. Environmental Protection Agency</b> Science to Achieve Results (STAR) Research Program - Early Career Award: Evaluating the Timeline of Particulate Matter Exposure from Urban Transportation and Land-Use Greenhouse Gas Mitigation Strategies Using a Novel Modeling Framework Role: PI, Funding: \$335,605	1/2016 – current
<b>New Mexico Department of Transportation</b> Management of the New Mexico Local Technical Assistance Program Role: PI, Funding: \$430,000	4/2017 – 4/2019
<b>TranSET University Transportation Center, Louisiana State University/U.S. DOT</b> Sustainable and Equitable Financing for Pedestrian Infrastructure Maintenance Role: PI, Funding: \$15,000	5/2017 – 12/2018
<b>New Mexico Department of Transportation</b> Autonomous Vehicle Traffic Impact Scenario Analysis: Central New Mexico Case Study Role: PI, Funding: \$79,962	7/2017 – 8/2018
<b>New Mexico Department of Transportation</b> Supporting State and Regional Transportation Agency Decision Making with the National Performance Management Research Data Set Role: PI, Funding: \$59,416	6/2017 – 1/2018
<b>New Mexico Department of Transportation</b> Local Technical Assistance Program (LTAP) Work Plan Development Role: Co-PI, Funding: \$19,323	8/2016 – 11/2016
<b>New Mexico Department of Transportation</b> CMAQ Best Practices Scan Role: PI, Funding: \$54,829	11/2016 – 4/2017
<b>U.S. Department of Transportation</b> Central New Mexico Climate Change Scenario Planning Project Role: PI for UNM subcontract from Ecosystems Management Inc., UNM Funding Share: \$103,859	3/2014 – 12/2014
<b>University of New Mexico, Resource Allocation Committee Grant</b> Albuquerque Bicycle Path Congestion Management and Air Quality (CMAQ) Study Role: PI, Funding: \$7,585	11/2013 – 5/2015

## STUDENTS SUPERVISED

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Curriculum Vitae ▪ Dr. Gregory Rowangould

- Currently advising 4 graduate students (2 MS and 2 PhD)
- Have advised 6 graduate students that have graduated (2 MS and 4 PhD)

<b>Former Students &amp; Their Current Position</b>	<b>Graduated</b>
<b>Dr. Elmira Kalhor</b> Post-Doctoral Scholar, Princeton University, Center for Policy Research on Energy and the Environment	PhD Summer 2019
<b>Dr. Razieh Nadafianshahamabadi</b> EDF-Atkinson Post-Doctoral Fellow, Cornell University/Environmental Defense Fund, Ithaca, NY	PhD Summer 2019
<b>Dr. Amir Poorfakhraei</b> Transportation Analyst, East-West Gateway Council of Governments, St. Louis, MO	PhD Fall 2018
<b>Dr. Mohammad Tayarani</b> Post-Doctoral Scholar, Cornell University, Department of Civil and Environmental Engineering	PhD Spring 2018
<b>Alexis Corning Padilla</b>	MS Summer 2019
<b>Rahul Gade</b> Assistant Professor, MVGR College of Engineering, Vizianagaram, Andhra Pradesh, India	MS Summer 2016
<b>Kasey Gooden</b> Civil Engineer, Parametrix, Albuquerque, NM	BS Spring 2019
<b>Pily Rodriguez</b> Structural Engineer, ESCA Consultants, Champaign, IL	BS Fall 2018
<b>Saydra Alvarez Moreno</b> Project Engineer, McCarthy Building Companies, Inc. Albuquerque, NM	BS Spring 2016
<b>Current PhD Students</b>	<b>Expected Graduation</b>
Fausto Rodriguez Bravo	Fall 2019
Brittany Antonczak	Spring 2022
<b>Current MS Students</b>	
Julia Seymour	Fall 2019
Stephen Montaña	Spring 2020