

# CURRICULUM VITAE

University of Idaho

**NAME:** Lowry, Michael (Mike)

**DATE:** 4 March 2016

**RANK OR TITLE:** Associate Professor

**DEPARTMENT:** Department of Civil Engineering, College of Engineering

**OFFICE LOCATION:** Engineering Physics Building EP 115

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**DATE OF FIRST EMPLOYMENT AT UI:** January 2009

**DATE OF TENURE:** March 2015

**DATE OF PRESENT RANK OR TITLE:** March 2015

## EDUCATION:

### Degrees:

Ph.D., University of Washington, Seattle, WA, December 2008, Civil and Environmental Engineering  
MS, Brigham Young University, Provo, UT, June 2004, Civil and Environmental Engineering  
BS, Brigham Young University, Provo, UT, June 2002, Civil and Environmental Engineering

### Certificates and Licenses:

Professional Engineer (PE) Idaho #P-15564  
Professional Transportation Planner (PTP)

## EXPERIENCE:

### Current Teaching and Research Appointments:

Associate Professor, Civil Engineering, University of Idaho, Moscow, ID, 2015 – present  
Associate Professor, Bioregional Planning, University of Idaho, Moscow, ID, 2015 – present  
Assistant Professor, Civil Engineering, University of Idaho, Moscow, ID, 2009 – 2015  
Assistant Professor, Bioregional Planning, University of Idaho, Moscow, ID, 2009 – 2015  
Research Faculty, National Institute for Advanced Transportation Technology (NIATT), 2009 – present

### Past Teaching and Research Appointments:

Visiting Research Assistant, Institute of Transport Economics, Oslo, Norway, 2007 –2008  
Research Scholar, University of Liverpool, Liverpool, United Kingdom, June 2008  
Instructor, University of Washington, Seattle, WA, 2005

### Non-Academic Employment:

Project Engineer, *Prime Interiors International*, Accra, Ghana, Africa, 2002  
-Supervised steel stud and dry wall installation for a multimillion dollar building.  
Land Surveyor and Data Analyst, *Burns and McDonnell*, Chicago, IL, 2001  
-Conducted land surveying and analyzed soil pollutants at oil and gas contamination sites.  
Trip Manager and River Guide, *World Wide River Expeditions*, Moab, UT, 1999 – 2000  
-Supervised 6-day multi-family river trips on the Salmon River in Idaho and Colorado River in Utah.

### Consulting:

President, Lowry Engineering and Planning PLLC (LEAP), Moscow, ID, 2014 – present  
-Consulting work related to transportation engineering and planning.

**TEACHING ACCOMPLISHMENTS:****Areas of Specialization:**

Transportation Planning, Transportation Improvement Programming, Bicycle and Pedestrian Planning, Street Design, Public Involvement, Quantitative Planning Methods, Geographic Information Systems, and Economic Analysis

**Courses Taught:**

Engineering Economy, ENGR 360  
Probability and Statistics, STAT 301  
Civil Engineering Senior Seminar, CE 491  
Sustainable Transportation and Community Design, CE 504  
Transportation Planning, CE 573  
Transportation Safety Analysis, CE 576  
Highway Operations, CE 578  
Planning Methods, BIOP 522  
Traffic Engineering, CEE410 (University of Washington)

**Courses Developed:**

Sustainable Transportation and Community Design, CE 504  
Planning Methods, BIOP 522

**Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:**

Engineering Fundamentals, CE 411, invited lecture every semester 2009-present  
Fundamentals of Transportation Engineering, CE 372, invited lecture every year 2010-present  
Urban Morphology, Arch 582, invited lecture 2011

**Students Advised:**

Undergraduate Students:

20-25 students per year

Graduate Students Advised to Completion of Degree as Major Professor:

Bradford Tower, MS Civil Engineering, 2014  
Becky Couch, MS Bioregional Planning, 2014  
Seth Cool, MS Bioregional Planning, 2014  
Stephen McDaniel, MS Civil Engineering, 2013  
Aaron Buckley, MS Bioregional Planning, 2012  
Daniel Callister, MS Bioregional Planning, 2012  
John Hawkins, MS Bioregional Planning, 2012  
Kevin Kingsbury, MS Civil Engineering, 2011

Graduate Students Advising Currently as Major Professor:

Arman Al-Jahan, MS Civil Engineering, Anticipated 2016  
John Hawkins, MS Civil Engineering, Anticipated 2016  
Skye Swoboda-Colberg, MS Bioregional Planning, Anticipated 2017

Served on Graduate Thesis Committee:

Riannon Heighes, MS Civil Engineering, 2015  
Gretchen Heath, MS Psychology, 2014  
Greg Reince, MS Civil Engineering, 2013  
Maria Tribelhorn, MS Civil Engineering, 2013  
Joe Sonnen, MS Civil Engineering, 2012  
Thomas Ulrich, MS Psychology, 2011  
Monica Walker, MS Bioregional Planning, 2011  
Nicholas Cottrell, MS Psychology, 2011  
Genevieve Gerke, MS Bioregional Planning, 2011

**SCHOLARSHIP ACCOMPLISHMENTS:****Publications and Presentations:**

(\* denotes University of Idaho student research assistant)

**Refereed Journal Publications:**

- Lowry, M.**, Furth, P., and Hadden-Loh, T. (2016). "Prioritizing new bicycle facilities to improve low-stress network connectivity" *Transportation Research Part A: Policy and Practice*, Vol. 86, pp. 124-140.
- Lowry, M.**, \*McGrath, R., Scruggs, P. and Paul, D. (2016). "Practitioner survey and measurement error in manual bicycle and pedestrian count programs" *International Journal of Sustainable Transportation*.
- \*McDaniel, S., **Lowry, M.**, and Dixon, M. (2014). "Using Origin-Destination Centrality to Estimate Directional Bicycle Volumes." *Transportation Research Record: Journal of the Transportation Research Board*. 2430, pp. 12-19.
- Lowry, M.** (2014). "Spatial interpolation of traffic counts based on origin-destination centrality" *Journal of Transport Geography*, 36, pp. 98-105.
- Lowry, J. and **Lowry, M.** (2014). "Comparing Spatial Metrics that Quantify Urban Form" *Computers, Environment and Urban Systems*, 44, pp. 59-67.
- \*Buckley, A., **Lowry, M.**, Brown, H., and Barton, B. (2013). "Evaluating Safe Routes to School Events that Designate a Day for Walking and Bicycling." *Transport Policy*, 30, pp. 294-300.
- \*Callister, D. and **Lowry, M.** (2013). "Tools and Strategies for Wide-scale Bicycle Level of Service Analysis." *ASCE Journal of Urban Planning and Development*, Vol. 139, No.4, pp. 1-8.
- Lowry, M.**, \*Callister, D., Gresham, M. and \*Moore, B. (2012). "Assessment of Communitywide Bikeability with Bicycle Level of Service." *Transportation Research Record: Journal of the Transportation Research Board*, 2314, pp. 41-48.
- \*Kingsbury, K., **Lowry, M.**, and Dixon, M. (2011). "What Makes a "Complete Street" Complete? A Robust Definition, Given Context and Public Input." *Transportation Research Record: Journal of the Transportation Research Board*, 2245, pp. 103-110.
- Lowry, M.**, Laninga, T., \*Zimmerman, M., and \*Kingsbury, K. (2011). "Using Traffic Simulation Software to Manage Recreational River Boats on Public Lands." *Transportation Research Record: Journal of the Transportation Research Board*, 2244, pp. 107-115.
- Lowry, M.** (2010). "Using optimization to program projects in the era of communicative rationality." *Transport Policy*, 17(2), pp. 94-101.
- Lowry, M.** (2010). "Online public deliberation for a regional transportation improvement decision." *Transportation*, 37(1), pp. 39-58.
- Lowry, M.** and Balling, R. (2009). "An approach to land-use and transportation planning that facilitates city and region cooperation." *Environment and Planning B: Planning and Design*, 36(3), pp. 487 – 504.
- Zhong, T., Young, R. K., **Lowry, M.**, and Rutherford, G. S. (2008). "A model for public involvement in transportation improvement programming using participatory Geographic Information Systems." *Computers, Environment and Urban Systems*, 32(2), pp. 123-133.
- Lowry, M.**, Nyerges, T., and Rutherford, G. (2008). "Internet Portal for Participation of Large Groups in Transportation Programming Decisions." *Transportation Research Record: Journal of the Transportation Research Board*, 2077, pp. 156-165.
- Young, R., Zhong, T., **Lowry, M.**, Rutherford, G. S., and Nyerges, T. (2007). "An Analytic-Deliberative Online Framework for Transportation Programming." *The International Journal of Technology, Knowledge and Society*, 3(2), pp. 87-98.

Balling, R., **Lowry, M.**, and Saito, M. (2003). "Regional Land Use and Transportation Planning with a Genetic Algorithm." *Transportation Research Record: Journal of the Transportation Research Board*, 1831, pp. 210-218.

**Forthcoming or Recently Submitted for Refereed Publication:**

**Lowry, M.** and Hadden-Loh, T. (under review). "Quantifying bicycle network connectivity" *Preventive Medicine* Submitted March 2016.

**Refereed Conference Proceedings:**

**Lowry, M.**, Furth, P., and Hadden-Loh, T. (2016). "Low-Stress Neighborhood Bikeability Assessment to Prioritize Bicycle Infrastructure" *Transportation Research Board 95th Annual Meeting Compendium of Papers*. National Research Council, Washington, D.C.

**Lowry, M.** and \*Cool, S. (2015). "Defining a Typology of Dangerous Situations for Bicyclists" *Transportation Research Board 94th Annual Meeting Compendium of Papers*. National Research Council, Washington, D.C.

Paul, D., **Lowry, M.**, Scruggs, P., and \*McGrath, R. (2015). "Assessing error and surveying practitioners for manual bicycle and pedestrian count programs involving community-volunteers." *Medicine and Science in Sports and Exercise*, 47 (5): P100.

Chang, K. **Lowry, M.**, \*Seely, B., and \*Cook, R. (2015). "Using a Responsive Interactive Program to Enhance Daily Travel Feedback" *Transportation Research Board 94th Annual Meeting Compendium of Papers*. National Research Council, Washington, D.C.

Cook, P. **Lowry, M.**, Hollenhorst, S., and Cesnik, C. (2012). "Strategies to Reduce Greenhouse Gas Emissions from Employees of the U.S. Department of the Interior." *Transportation Research Board 91st Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council, Washington, D.C.

**Lowry, M.** (2008). "Case Study in Online Public Participation for Transportation Planning." *Transportation Research Board 88th Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council, Washington, D.C.

**Lowry, M.**, Rutherford, G.S., and Nyerges, T. (2008). "Using cluster analysis to design tax packages that fund transportation projects." *The Proceedings of the Tenth International Conference on Application of Advanced Technologies in Transportation*.

**Lowry, M.** and Rutherford, G.S. (2006). "Travel Time Savings for a Traveler Information System." *Transportation Research Board 85th Annual Meeting Compendium of Papers*. Transportation Research Board, National Research Council, Washington, D.C.

**Refereed Conference Presentations:**

**Lowry, M.**, (with Hadden-Loh, T. and Valenzuela, A.) (2016). "Improving low-stress bicycle access to schools through network connectivity analysis" Presented at the 5<sup>th</sup> Safe Routes to School National Conference, Columbus, Ohio.

Hadden-Loh, T., (with **Lowry, M.**) (2016). "Quantifying low-stress bicycle facility network connectivity" Presented at the Active Living Research Annual Conference, Miami, Florida.

**Lowry, M.**, (with Furth, P., and Hadden-Loh, T.) (2016). "Low-Stress Neighborhood Bikeability Assessment to Prioritize Bicycle Infrastructure" Presented at the 95th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.

Paul, D., (with **Lowry, M.**, Scruggs, P., and \*McGrath, R) (2015). "Assessing error and surveying practitioners for manual bicycle and pedestrian count programs involving community-volunteers." American College of Sports Medicine's 62nd Annual Meeting and 6th World Congress of Exercise in Medicine. May 2015, San Diego, CA.

- Lowry, M.** (with \*Cool, S.) (2015). "Defining a Typology of Dangerous Situations for Bicyclists" Presented at the 94th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- Lowry, M.** (with Chang, K., \*Seely, B., and \*Cook, R.) (2015). "Using a Responsive Interactive Program to Enhance Daily Travel Feedback" Presented at the 94th Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- Lowry, M.**, (with \*McDaniel, S.) (2014). "GIS Tools for Bicycle Network Analysis and Planning" Presented at the 2014 Joint Engineers Conference, Helena, Montana.
- Lowry, M.**, (with Claybrooke, C., Comeau, C., and \*Cool, S.) (2014). "Transforming an auto-oriented transportation legacy into a multi-modal and bicycle friendly system" Presented at the 2014 American Planning Association Washington Annual Conference, Spokane, Washington.
- Lowry, M.**, (with Brozen, M., Anspacher, D., and Horning, J.) (2014). "Settling the Score: Street Performance Measures" Presented at the 2014 Pro Walk Pro Bike Conference, Pittsburgh, Pennsylvania.
- Lowry, M.**, (with Loh, T., Laughlin, K., and Lindsey, G.) (2014). "The Trail Modeling and Assessment Platform (T-MAP): Building New Tools for Trail Development" Presented at the Active Living Research Annual Conference, San Diego, California.
- Lowry, M.** (2014). "Estimating Annual Average Daily Traffic Across Small Cities Based on Network Centrality." Presented at the 93rd Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- Dixon, M. (with **Lowry, M.**, \*Cook, R. and \*Kirby, W.) (2014). "Effective Turning Movement Volume Estimation for Intersection Analysis Using Gauss-Jordan Elimination" Presented at the 93rd Annual Meeting of the Transportation Research Board, Washington, D.C.
- Lowry, M.** (with \*McDaniel, S. and Dixon, M.) (2014). "Origin-Destination Centrality to Estimate Directional Bicycle Volumes." Presented at the 93rd Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- Lowry, M.** (with \*Callister, D.) (2014). "Tools and Strategies for Wide-scale Bicycle Level of Service Analysis." Presented at the 93rd Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- Lowry, M.** (2013). "New GIS Tools to Estimate Bicycle Volumes Based on Street Connectivity." Presented at the International Bicycle Urbanism Symposium, Seattle, Washington.
- Paul, D. (with Cook, P., Hollenhorst, S., and **Lowry, M.**) (2013). "Factors influencing the active commuting behaviors of US Department of the Interior employees." Presented at the 141st Annual Meeting of the American Public Health Association, Boston.
- Lowry, M.** (with \*Buckley, A., Brown, H., and Barton, B.) (2013). "Case Study of Safe Routes to School Special Encouragement Events" Presented at the 92nd Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- Brown, H. (with **Lowry, M.**, \*Buckley, A., Goc Karp, G., and \*Rouse, E.) (2012). "iCount, A Tool Kit for Community Based Documentation of Bicycle and Pedestrian Environments and Behaviors." Presented at the 140th Annual Meeting of the American Public Health Association, San Francisco.
- Cook, P. (with **Lowry, M.**, Hollenhorst, S., and Cesnik, C.) (2012). "Strategies to Reduce Greenhouse Gas Emissions from Employees of the U.S. Department of the Interior." Presented at the 91st Annual Meeting of the Transportation Research Board, Washington, D.C.
- Lowry, M.** (with \*Callister, D., Gresham, M. and \*Moore, B.) (2012). "Using Bicycle Level of Service to Assess Community-wide Bikeability." Presented at the 91st Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C.
- Lowry, M.** (with Lowry, B. and Brown, H.) (2011) "GIS Tools to Help Allocate Infrastructure Funds." Presented at the 3<sup>rd</sup> Safe Routes to School National Conference, Minneapolis, Minnesota.

- Lowry, M.** (with Lowry, B., Brown, H., and Goc Karp, G.) (2011) “Achieving Safe Routes to School Goals Through University Service Learning Projects.” Presented at the 3<sup>rd</sup> Safe Routes to School National Conference, Minneapolis, Minnesota.
- Lowry, M.** (2011) “What Makes a “Complete Street” Complete? A Robust Definition Based on Context and Public Input.” Presented at the 90<sup>th</sup> Annual Meeting of the Transportation Board. Washington, D.C.
- Lowry, M.**, (with Laninga, T., \*Zimmerman, M., and \*Kingsbury, K.) (2011). “Using Traffic Simulation Software to Manage Recreational River Boats on Public Lands.” Presented at the 90<sup>th</sup> Annual Meeting of the Transportation Board. Washington, D.C.
- Lowry, M.** (2010) “A context-sensitive approach to complete street assessment.” Presented at the Transportation Systems for Livable Communities Conference. Washington, D.C.
- Lowry, M.** (with Fischer, T.) (2009). “The Typology and Selection of Sustainable Transportation Indicators.” Presented at the 50<sup>th</sup> Annual Transportation Research Forum. Portland, Oregon.
- Lowry, M.** (2008). “Case Study in Online Public Participation for Transportation Planning.” Presented at the 88<sup>th</sup> Annual Meeting of the Transportation Board. Washington, D.C.
- Lowry, M.** (with Fischer, T.) (2008). “Defining requirements of EST indicators from the planning and decision making point of view.” Presented at the annual meeting of COST Action 356 Towards the definition of a measurable environmentally sustainable transport. Lyon, France.
- Lowry, M.** (with Rutherford, G.S., and Nyerges, T.) (2008). “Using cluster analysis to design tax packages that fund transportation projects.” Presented at the Tenth International Conference on Application of Advanced Technologies in Transportation. Athens, Greece.
- Lowry, M.** (with Rutherford, G.S., and Nyerges, T.) (2008). “An internet portal for large-group participation in transportation programming decisions.” Presented at the 87<sup>th</sup> Annual Meeting of the Transportation Board. Washington, D.C.
- Lowry, M.** (with Zhong, T. Young, R., Rutherford, G.S., and Nyerges, T.) (2007). “An Analytic-Deliberative Framework for Transportation Programming.” Presented at the 86<sup>th</sup> Annual Meeting of the Transportation Board. Washington, D.C.
- Lowry, M.** (with Rutherford, G.S.) (2006). “Travel Time Savings for a Traveler Information System.” Presented at the 85<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington, D.C.
- Lowry, M.** (with Balling, R. and Saito, M.) (2003). “Regional Land Use and Transportation Planning with a Genetic Algorithm.” Presented at the 82<sup>nd</sup> Annual Meeting of the Transportation Research Board. Washington, D.C.

#### **Invited Presentations:**

- Lowry, M.**, (2014). “GIS Tools for Bicycle Network Analysis and Planning”, OTREC Transportation Seminar, Portland State University, Portland, Oregon.
- Lowry, M.**, (2013). “Using Street Topology to Estimate Traffic Volumes”, PacTrans Transportation Seminar, University of Washington, Seattle, Washington.

#### **Other Publications:**

- Lowry, M.** Chang, K., Cook, R., and Seely, B. (2015) *Daily Travel Feedback to Encourage Eco-Routing*, TranLive.
- Lowry, M.**, McGrath, R., Cool, S., Cook, R., Skiles, M., Li, Z., Henrickson, K., Dunlap, M., and Wang, Y. (2015) *Data Collection and Spatial Interpolation of Bicycle and Pedestrian Data*, Pacific Northwest Transportation Consortium.

- Dixon, M., **Lowry, M.**, \*Brunello, R., Wang, Y., Porter, D., and Kim, D. (2014) *Urban Street Performance Measurement for the auto, bicycles, and pedestrians*, Pacific Northwest Transportation Consortium.
- \*Peterson, J., **Lowry, M.**, LaPaglia, K., and \*Tower, B. (2014) *Summer Camp Instructor's Guide: Sustainable Transportation - Technology, Engineering, and Science*, Report KLK-909, National Institute for Advanced Transportation Technology.
- Lowry, M.** and Dixon, M. (2012) *GIS Tools to Estimate Annual Average Daily Traffic*, Report KLK-725, National Institute for Advanced Transportation Technology.
- Lowry, M.** and \*Callister, D. (2012) *Analytical Tools for Identifying Bicycle Route Suitability, Coverage, and Continuity*, Report 204, Idaho Transportation Department.
- Cook, P., \*Cummings, C., Vollmer, D., Hollenhorst, S., and **Lowry, M.** (2011) *Supplemental Report - Greenhouse Gas Emissions from U.S. Department of the Interior Employee Commuting: Estimates for Fiscal Year 2010*, Park Studies Unit, University of Idaho.
- Cook, P., Vollmer, D., Hollenhorst, S., and **Lowry, M.** (2011) *Greenhouse Gas Emissions from U.S. Department of the Interior Employee Commuting: Estimates for Fiscal Year 2010*, Park Studies Unit, University of Idaho.
- Fischer, T., Dalkmann, H., **Lowry, M.**, and Tennøy, A. (2010) "The dimensions and context of transport decision making", in *Indicators of Environmental Sustainability in Transport: An interdisciplinary approach to methods*, Editors Joumard, R. and Gudmundsson, H., INRETS report, Recherches R282, Bron, France
- Lowry, M.** (2008) *An online analytic-deliberative approach to public participation for transportation investment decisions*, PhD Dissertation 59033, University of Washington.
- Lowry, M.** and Fischer, T. (2008) *Defining requirements of environmental sustainable transportation indicators from the planning and decision making point of view*, STSM Report 356-03924, Cost Action 356
- Tennøy, A. and **Lowry, M.** (2008). *Reisevaner for ansatte i CIENS-bedriftene før og etter samlokalisering i Forskningsparken (Travel survey among employees in the CIENS institutes before and after relocation to Forskningsparken)*, Report 997-2008, Transportøkonomisk institutt (Transport Economic Institute), Oslo, Norway.
- Tennøy, A. and **Lowry, M.** (2008). "Godt kollektivtilbud og dårlige p-muligheter etter flytting: Færre kjører bil til jobben (Good public transport and bad parking opportunities after relocation: Less people drive their cars to work)" *Samferdsel Nr. 4*. Transportøkonomisk Institutt (Transport Economic Institute), Oslo, Norway.
- Hagman, R. and **Lowry, M.** (2007). *Klimapåvirkning og energiforbruk, VW Passat BlueMotion (Greenhouse gases and fuel consumption for a VW Passat BlueMotion)*, Report SM-1911-2007, Transportøkonomisk institutt (Transport Economic Institute), Oslo, Norway.
- Kristof, T., **Lowry, M.** and Rutherford, G.S. (2005). *Assessing the Benefits of Traveler and Transportation Information Systems*, Report No. WA-RD 597.1, TRAC and Washington State Transportation Department.
- Saito, M. and **Lowry, M.** (2005). *Evaluation of Four Recent Traffic and Safety Initiatives, Volume I: Developing Guidelines For Roundabouts*, Report No. UT-04.10, Utah Department of Transportation.
- Lowry, M.** (2004) *Coordinated Regional and City Planning Using a Genetic Algorithm*, MS Thesis, Brigham Young University.

**Grants and Contracts Awarded:**

(Responsibility levels: sole, majority, significant, and minor.)

- (2015) **Lowry, M.** and Godfrey, B. “Bicycle and Pedestrian Facility Inventory Database Design” *Idaho Transportation Department*, **\$100,000**, 24 months. Principal Investigator with majority responsibility.
- (2015) Nordback, K. and **Lowry, M.** “Spatial and Temporal Analysis of Bicycle and Pedestrian Data” Total funding **\$250,000**, 2 years, Funding from *US Department of Transportation: \$60,000 provided through PacTrans the Region X University Transportation Center and \$190,000 provided by Washington Department of Transportation.* Co-Principal Investigator with significant responsibility.
- (2015) Johnson, B., Bauer, D., **Lowry, M.**, and Roll, M. “Career Launch in Engineering Scholarship Program” *National Science Foundation*, **\$500,000**, 3 years. Co-Principal Investigator with significant responsibility.
- (2015) Wang, H., **Lowry, M.**, and Wang, Y. “Bicycle Safety Analysis using Crowdsourcing Bicycle Travel Data to Estimate Risk Exposure and Create Safety Performance Functions” *US Department of Transportation administered by PacTrans the Region X University Transportation Center*, **\$180,000**, 18 months. Co-Principal Investigator with significant responsibility.
- (2014) Hadden-Loh, T., Lindsey, G., **Lowry, M.**, and Gotschi, T. “The Trail Modeling & Assessment Platform (T-MAP)” *Rails to Trails Conservancy*, **\$1,200,000**, 3 years. Co-Principal Investigator with significant responsibility.
- (2013) **Lowry, M.** Dixon, M., Abdel-Rahim, A., Wang, Y., and Hallenbeck, M. “Data Collection and Spatial Interpolation of Bicycle and Pedestrian Data: Improving Safety and Building Livable Communities by Identifying Critical Intersections and Street Segments for Non-motorized Travel” *US Department of Transportation administered by PacTrans the Region X University Transportation Center*, **\$200,000**, 12 months. Principal Investigator with majority responsibility.
- (2013) **Lowry, M.** and Dixon, M. “Daily Travel Feedback to Encourage Eco-Routing” *US Department of Transportation administered by TranLIVE a Tier 1 University Transportation Center*, **\$40,000**, 12 months. Principal Investigator with majority responsibility.
- (2013) **Lowry, M.** and Abdel-Rahim, A. “Curriculum Development for K-12 Sustainable Transportation Education.” *US Department of Transportation administered by TranLIVE a Tier 1 University Transportation Center*, **\$24,000**, 7 months. Principal Investigator with majority responsibility.
- (2012) Dixon, M, **Lowry, M.** and Abdel-Rahim, A. “Performance Monitoring for Safe and Livable Communities: Fusing Data to Improve Arterials for All Users” *US Department of Transportation administered by PacTrans the Region X University Transportation Center*, **\$152,000**, 16 months. Co-Principal Investigator with significant responsibility.
- (2012) **Lowry, M.** “Sustainable Planning Specialist: Active Travel Community Assessments.” *AmeriCorps*, **\$22,400**, 12 months. Principal Investigator with sole responsibility.
- (2011) **Lowry, M.** “Analytical Tools for Identifying Bicycle Route Suitability, Coverage, and Continuity,” *Idaho Transportation Department*, **\$50,000**, 14 months. Principal Investigator with sole responsibility.
- (2011) Kyte, M. Dixon, M, Beyerlein, S., **Lowry, M.**, and Anderson, J. “The National Transportation Curriculum Project: Activity-Based Learning Modules for the Introductory Transportation Engineering Course,” *US Department of Transportation administered by NIATT a Tier 1 University Transportation Center*, **\$75,000**, 8 months. Co-Principal Investigator with minor responsibility.
- (2011) **Lowry, M.** and Dixon, M. “A New Method to Estimate Average Annual Daily Traffic Based on Street Configuration,” *US Department of Transportation administered by NIATT a Tier 1 University Transportation Center*, **\$32,000**, 8 months. Principal Investigator with majority responsibility.
- (2010) Hollenhorst, S., Cook, P. and **Lowry, M.** “Greenhouse Gas Commuter Transportation Survey,” *US Department of the Interior*, **\$100,000**, 12 months. Co-Principal Investigator with minor responsibility.



(2009) **Lowry, M.** “Developing a sustainable transportation course for engineers and planners,” *University of Idaho, Sustainable Idaho Greening the Curriculum*, \$2,000, 3 months. Principal Investigator with sole responsibility.

#### **Honors and Awards:**

2014 Outstanding Young Faculty Award, College of Engineering, University of Idaho, 2014  
 City of Moscow Mayor’s Earth Day Award (for engineering outreach and service), Moscow, Idaho, 2014  
 Short Term Scientific Mission Scholar, COST Action 356, Liverpool, United Kingdom, 2008  
 Valle Fellow, Valle Scholarship and Scandinavian Exchange Program, Oslo, Norway, 2007  
 College of Engineering Community of Innovators Award, University of Washington, 2007  
 Washington ITE Scholarship Recipient, Seattle, Washington, 2006  
 Eno Fellow, Eno Transportation Leadership Development Foundation, 2006  
 ITS America and Women’s Transportation Seminar Scholarship Recipient, Seattle, Washington, 2006  
 University Transportation Center (UTC) Student of the Year, TransNow, 2005  
 Technology Entrepreneurship Award, UW Center for Innovation and Entrepreneurship, 2005  
 First place Washington ITE Student Paper Competition, Seattle, Washington, 2005  
 First place TransNow Student Presentation Competition, Corvallis, Oregon, 2005  
 First place TransNow Student Poster Competition, Corvallis, Oregon, 2005  
 Valle Scholarship Recipient, Valle Scholarship and Scandinavian Exchange Program, 2004  
 ITE District 6 Scholarship Recipient, Western ITE, 2004  
 Civil and Environmental Engineering Graduate Scholarship Recipient, BYU, 2004  
 Civil and Environmental Engineering Graduate Scholarship Recipient, BYU, 2003  
 Civil and Environmental Engineering Department Scholarship Recipient, BYU, 2002  
 Joseph Layne Black Scholarship Recipient, BYU, 2001  
 Joseph Layne Black Scholarship Recipient, BYU, 2000  
 Marriot School of Business Entrepreneur Scholarship Recipient, BYU, 1999

#### **SERVICE:**

##### **Major Committee Assignments:**

###### National Committees

TRB ANF20: Bicycle Transportation, 2015 – Present  
 TRB ADA50: Programming and Investment Decision-Making, 2010 – Present  
 Expert Panel, NCHRP Synthesis 41-11, *Transportation Improvement Program Revision Process*, 2009 – 2010  
 Expert Panel, NCHRP Synthesis 47-10, *Resource Allocation of Available Funding to Programs*, 2015 – 2016

###### State and Local Organizations

Board Member, Regional Public Transportation, Inc (RPT), Board of Directors, 2012 – Present  
 Volunteer, Moscow Pathways Commission, Moscow, Idaho, 2009 – Present  
 Volunteer, Safe Routes to School, Moscow, Idaho, 2009 – Present

###### University of Idaho

Member and COE Representative, University Safety and Loss Control Committee, 2013 – Present  
 Member, University Transportation Advisory Group, 2009 – Present  
 Faculty Advisor, Students for Place-based Planning and Urban Design (SPPUD), 2010 – 2013

###### College of Engineering

Member, College Safety Committee, 2013 – Present

Civil Engineering Department

Member, CE Curriculum Committee, 2015 – Present  
Chair, CE Petition Committee, 2011 – 2015  
Member, CE Chair Search Committee, 2015  
Member, CE Graduate Admissions Committee, 2009 – 2011  
Member, CE Petition Committee, 2009 – 2011

Bioregional Planning Program

Member, BIOP Academic Program Committee, 2009 – Present  
Member, BIOP Curriculum Subcommittee, 2009 – Present

**Professional Society Membership:**

American Society of Civil Engineers (ASCE), intermittent 1998 – Present  
Transportation Research Board (TRB), 2002 – Present  
Institute of Transportation Engineers (ITE), 2002 – Present  
Women's Transportation Seminar (WTS), 2005 – 2006  
Students for New Urbanism (SNU), 2002 – 2004

**Professional Society Leadership:**

Faculty Advisor, UI Student Chapter of APA, 2011  
President, UW Student Chapter of ITE, 2004  
Vice President, BYU Student Chapter of ITE, 2003  
Treasurer, BYU Student Chapter of ITE, 2002  
President, BYU Student Chapter of ASCE, 2001

**PROFESSIONAL DEVELOPMENT:**

**Teaching:**

CUBE Model Comprehensive Training, Salt Lake City, UT, October 8-10, 2015  
Bicycle and Pedestrian Education Workshop, Portland, OR, July 19-20, 2012  
Transportation Engineering Educator's Conference, Seattle, WA, July 31-Aug 1, 2012  
Mini-ExCEEEd Teaching Workshop, Portland, OR, June 24, 2009  
Transportation Education Conference, Portland, OR, June 22-23, 2009

**Scholarship:**

Bright Star Grant Writing Clinic, University of Idaho, December 9-11, 2009

**PERSONAL INFORMATION:**

**Citizenship:**

United States of America  
Canada

**Language Fluency:**

English, ILR Level: Native  
Spanish, ILR Level: Professional working proficiency