

ANNE VICTORIA GOODCHILD

Curriculum Vitae

Civil and Environmental Engineering
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EDUCATIONAL HISTORY

University of California at Berkeley, Berkeley, CA
PhD, Civil and Environmental Engineering,
December 2005

“Crane Double Cycling in Container Ports: Algorithms, Evaluation, and Planning”

University of California at Berkeley, Berkeley, CA
MS, Civil and Environmental Engineering
December 2003

University of California at Davis, Davis, CA
BS High Honors, Mathematics, Minor Geology
September 1995

EMPLOYMENT HISTORY

University of Washington, Seattle, WA, USA
Professor, Civil and Environmental Engineering, September 2017
Adjunct Professor, Industrial and Systems Engineering, September 2017
Associate Professor, Civil and Environmental Engineering, September 2012
Adjunct Associate Professor, Industrial and Systems Engineering, September 2012
Assistant Professor, Civil and Environmental Engineering, December 2005 to September 2012

PricewaterhouseCoopers, LLP
London, UK
Manager, August 1998 to May 2001

Applied Decision Analysis
Menlo Park, CA, USA
Analyst, June 1996 to August 1998

AWARDS AND HONORS

- Transportation Club of Seattle, Person of the Year, 2017
- Allan and Inger Osberg Endowed Professorship, October 2012 – 2017
- Junior Faculty Research, 2012 College of Engineering Community of Innovators Award
- 2nd Prize, 2008, College-Industry Council on MH Education Outstanding Material Handling and Logistics paper

- Dissertation Prize Honorable Mention, 2006, INFORMS Transportation Science and Logistics
- Selected Professions Dissertation Fellowship, 2005, American Association of University Women
- Dissertation Fellowship, 2005, University of California Transportation Center
- Dwight David Eisenhower Transportation Fellowship, 2003, United States Department of Transportation
- Eno Transportation Foundation Fellow, 2003, Eno Transportation Foundation
- PRISMS Presentation Competition Finalist, 2003, Institute for Operations Research and Management Science
- Graduate Opportunities Fellowship, 2001, University of California Transportation Center

AFFILIATIONS AND OTHER APPOINTMENTS

Director, Supply Chain Transportation and Logistics Center, September 2015 – present

Academic Director, Supply Chain Transportation and Logistics Master’s Program, September 2013 – present

Director, Goods Movement Collaborative (SCTL Research Group), December 2005 – present

Chercheur Invitee, IFSTTAR, SPLOTT, University de Paris Est, November – December 2012

Associate Director Freight Operations Research Program, Transportation Northwest, March 2006 – June 2011

Faculty, Interdisciplinary PhD Program in Urban Design and Planning, May 2008 – September 2014

PUBLICATIONS

Refereed archival journal publications

(¹ indicates my graduate students, ² my undergraduate students, ³ private/public sector practitioner)

	Title	Impact Factor	Number of citations	Citations per year
1	McCormack, E., A. Goodchild, M. Sheth ¹ and D. Hurwitz, (2019). “Developing design guidelines for commercial vehicle envelopes on urban streets.” International Journal of Transport Development and Integration, 3(2), 132-143 http://doi.org/10.2495/TDI-V3-N2-132-143	NA	0	0
2	Giron, G. ¹ , J. Machado ¹ , A. Goodchild (2019) “Freight and the Seattle’s CBD: Giving Insight About	NA	0	0

	the Battle for the Curb.” Transportation Research Record https://doi.org/10.1177%2F0361198119849062			
3	Abadi. M.G, Hurwitz, D. Sheth, M. McCormack, E., and A. Goodchild (2019) “Factors Impacting Bicyclist Lateral Position and Velocity in Proximity to Commercial Vehicle Loading Zones: Application of a Bicycling Simulator.” Accident Analysis and Prevention, 125: 29-39 https://doi.org/10.1016/j.aap.2019.01.024	NA	0	0
4	Sheth, M. ¹ , P. Butrina ¹ , A. Godchild, and E. McCormack (2019) “Measuring Delivery Route Cost Trade-offs Between Electric-Assist Cargo Bicycles and Delivery Trucks in Dense Urban Environments.” European Transport Research Review, 11:11 https://doi.org/10.1186/s12544-019-0349-5	NA	4	4
5	Giron, G. ¹ , K. Kuo, M. Dubie and A. Goodchild (2018) “An Evaluation of Logistics Sprawl in Chicago and Phoenix.” Journal of Transport Geography https://doi.org/10.1016/j.jtrangeo.2018.08.008	3.560	3	1.5
6	Boyle, L. H. Kim ¹ , and A. Goodchild (2018) "Delivery Process For an Office Building in the Seattle Central Business District.” Transportation Research Record; Journal of the Transportation Research Board, 2672, 9 https://doi.org/10.1177/0361198118798730	.748	2	1
7	Bovbjerg, A. ¹ , M. Sheth ¹ , E. McCormack, A. Goodchild, and P. Butrina ¹ (2018) “Rails Next to Trails: A Methodology for Selecting Appropriate Safety Treatments at Complex Multimodal Intersections." Transportation Research Record; Journal of the Transportation Research Board, 2672 https://doi.org/10.1177/0361198118792763	.748	0	0
8	Goodchild, A., E. Wygonik, and N. Mayes (2017) “An Analytical Model for Vehicle Miles Traveled and Carbon Emissions for Goods Delivery Scenarios.” European Transport Research Review 10:8 https://doi.org/10.1007/s12544-017-0280-6	1.758	6	2

9	Wang, L. and A. Goodchild (2017) "Spatial Impacts of Import Cargo Flow in China's Port Hinterland Network." <i>Maritime Economics and Logistics</i> 1-20 https://doi.org/10.1057/s41278-017-0079-3	1.588	4	1.33
10	Wygonik, E. and A. Goodchild (2017) "Evaluating the Impacts of Density on Urban Goods Movement Externalities." <i>Journal of Urbanism: International Research on Placemaking and Urban Sustainability</i> 10(4) 487-499 https://doi.org/10.1080/17549175.2017.1310745	1.29	2	.67
11	Goodchild, A. and J. Toy ¹ (2017) "Delivery by Drone: An Evaluation of Unmanned Aerial Vehicle Technology in Reducing CO2 Emissions in the Delivery Service Industry." <i>Transportation Research Part D</i> 61: 58-67 https://doi.org/10.1016/j.trd.2017.02.017	3.445	82	6
12	M. Rowell ¹ , A. Goodchild (2017) "The Effect of Tsunami Damage on Passenger and Forestry Transportation in Pacific County, Washington." <i>Transportation Research Record: Journal of the Transportation Research Board</i> 2604, 88-94 https://doi.org/10.3141/2604-11	.695	0	0
13	J.L. Machado-Leon ¹ , A. Goodchild (2017) "Review of Transportation Performance Metrics for Community-Based Planning of Resilience" <i>Transportation Research Record: Journal of the Transportation Research Board</i> 2604, 44-53 https://doi.org/10.3141/2604-06	.695	5	1.67
14	Butrina, P. ¹ , G. del Carmen Giron-Vaderrama, ¹ J.L. Machado-Leon ¹ , A. Goodchild, P. Ayyalasomayajula ¹ (2017) "From the Last Mile to the Last 800 Feet: Key Factors in Urban Pick-up and Delivery of Goods." <i>Transportation Research Record: Journal of the Transportation Research Board</i> , Vol. 2609, pp. 85-92 http://dx.doi.org/10.3141/2609-10	.695	8	2.67
15	McCormack, E. , Z. Wang, ¹ and A. Goodchild (2017) "A Methodology for Forecasting Freeway Travel Time Reliability using GPS Data." <i>Transportation Research Procedia</i> 25, 842-852 https://doi.org/10.1016/j.trpro.2017.05.461	0.85	7	2.33
16	Wygonik, E. ¹ and A. Goodchild (2017) "Urban Form and Goods Movement: Factors affecting delivery supply chain structure congestion and emissions	1.864	16	5.33

	impacts.” Transportation Research Part D, 10:4 487-499 https://doi.org/10.1016/j.trd.2016.09.015			
17	Gonzalez-Feliu, J. A. Goodchild, and D. Guerrero (2016) “Data-Driven Innovations in Policy-Oriented Freight Transportation Models and Planning Methods.” European Journal of Transport and Infrastructure Research 16(1), 1-3. https://doi.org/10.18757/ejtir.2016.16.1.3109	0.705	3	.75
18	Wygonik, E. ¹ , A. Bassok ² , E. McCormack ³ , A. Goodchild, and D. Carlson ³ (2016) “Urban Land Use Patterns and Truck Movement: A Case Study and Discussion of Forecasting Tools.” Transportation Research Record: Journal of the Transportation Research Board 2547, 74-82. https://doi.org/10.3141/2547-11	0.522	0	0
19	Wang, Z. ¹ and A. Goodchild (2016) “Freeway Truck Travel Time Prediction for Freight Planning Using Truck Probe GPS Data.” European Journal of Transport and Infrastructure Research 16(1), 76-94. https://doi.org/10.18757/ejtir.2016.16.1.3114	1.023	8	2
20	Wang, Z. ¹ , Goodchild, A. and E. McCormack (2016) “Measuring Truck Travel Time Reliability Using Truck Probe GPS Data.” Journal of Intelligent Transportation Systems: Technology, Planning, and Operations 20(2), 103-112. https://doi.org/10.1080/15472450.2014.1000455	1.565	19	4.75
21	Wang, Z. ¹ and A. Goodchild (2014) “A GPS Data Analysis of the Impact of Tolling on Truck Speed and Routing: A Case Study in Seattle, WA.” Journal of the Transportation Research Board. 2411, 112-119. https://doi.org/10.3141/2411-14	0.544	9	1.5
22	Wang, D. and A. Goodchild (2014) “Double Girder Bridge Crane with Double Cycling: Scheduling Strategy and Performance Evaluation” Journal of Applied Mathematics. Volume 2014, Article ID 418689, 12 pages. http://dx.doi.org/10.1155/2014/418689	0.567	2	.4
23	Wygonik, E. ¹ , McMullen, S., Holder, E., and A. Goodchild (2014) “The Current State of Multimodal Freight Project Impacts Estimation.” Journal of the Transportation Research Board. 2410, 141-149.	0.544	2	.33

	http://dx.doi.org/10.3141/2410-16			
24	Dablanc, L, Ogilvie, S. ¹ , and A. Goodchild (2014) “Logistics Sprawl: Differential Warehousing Development Patterns in Los Angeles and Seattle.” Journal of the Transportation Research Board. 2410, 105-112. https://doi.org/10.3141/2410-12	0.544	86	14.33
25	Rowell, M. ¹ , Gagliano, A. ² , and A. Goodchild (2014) “Examining Carrier Transportation Characteristics along the Supply Chain.” Research in Transportation Business & Management. 11, 116-122. http://dx.doi.org/10.1016/j.rtbm.2014.06.006	0.614	3	0.5
26	Rowell, M. ¹ , A. Gagliano ² , and A. Goodchild (2014) “Identifying Truck Route Choice Priorities: the Implications for Travel Models.” Transportation Letters, 6(2) 98-106. https://doi.org/10.1179/1942787514Y.0000000015	0.526	3	.4
27	Wygonik, E. ¹ , A. Goodchild, A. Bassok ³ , D. Carlson, and E. McCormack (2014) “Sustainable Urban Goods Movement: Emerging Research Agendas.” Journal of Urbanism, 8(20) 115-132. https://doi.org/10.1080/17549175.2013.875058	0.406	4	.8
28	Hong, J. ¹ and A. Goodchild (2014) “Examining the impact of land use policies on emissions: modeling the impact of trip speed, vehicle characteristics and residential location.” Transportation Research Part D. 26, 47–51. https://doi.org/10.1016/j.trd.2013.10.011	1.937	32	5.33
29	Pitera, K. ¹ and A. Goodchild (2014) “University Student Perceptions of Freight Transportation: Implications for Workforce Development.” Journal of Professional Issues in Engineering Education & Practice. 140(1) https://doi.org/10.1061/(ASCE)EI.1943-5541.0000182	0.275	1	0.2
30	Pitera, K., L.N. Boyle, and A.V. Goodchild. (2013) “An economic analysis of on-board monitoring systems in commercial vehicles: Looking beyond traditional benefits.” Transportation Research Record: Journal of the Transportation Research Board, No. 2379, pp. 64-71. https://doi.org/10.3141/2379-08	0.556	5	.7

31	Wang, Z. ¹ , J. Sage, J., A. Goodchild, E. Jessup, K. Casavant, R. Knudson ³ (2013) A Framework for Determining Highway Truck-Freight Benefits and Economic Impacts. <i>Journal of the Transportation Research Forum</i> , 52(2) 27-43. https://doi.org/10.5399/osu/jtrf.52.2.4156	0.26	7	1
32	Pitera ¹ , K., L. Boyle, and A. Goodchild (2013) "Process Comparison of Hours of Service Recording for Commercial Vehicle Operations: Electronic vs. Paper." <i>Journal of Transportation Engineering</i> , 139(3), 266–272. https://doi.org/10.1061/(ASCE)TE.1943-5436.0000500	0.877	4	0.57
33	Zhao, W. ¹ , and A. Goodchild (2013) "Using a Truck Appointment System to Improve the System Efficiency of Container Terminals." <i>Journal of Maritime Economics and Logistics</i> 15, 101–119. https://doi.org/10.1057/mel.2012.23	1.229	35	5
34	Wygonik, E. ¹ , and A. Goodchild (2012) "Evaluating the Efficacy of Shared-use Vehicles For Reducing Greenhouse Gas Emissions: A U.S. Case Study Of Grocery Delivery." <i>Journal of the Transportation Research Forum</i> , 51(2), 111-126. http://dx.doi.org/10.5399/osu/jtrf.51.2.2926	0.03	33	4.1
35	Andreoli, D. ¹ , and A. Goodchild (2012) "A Supply Chain Analysis of Truck Trip Generation: a case study in Washington potatoes." <i>Transportation Letters</i> , 4(3), 153-166. https://doi.org/10.3328/TL.2012.04.03.153-166	0.500	4	.57
36	Goodchild, A., Pitera, K. ¹ , and E. McCormack (2012) "Examining the differential responses of shippers and motor carriers to travel time variability." <i>International Journal of Applied Logistics</i> , 3(1), 39-53. http://dx.doi.org/10.4018/jal.2012010103	0.67	3	.375
37	Goodchild, A., J.G. McCall ² , J. Zumerchik ³ , and J. Lanigan, Sr ³ . (2011) "Reducing Train Turn Times with Doubly Cycling in New Terminal Designs." <i>Transportation Research Record: Journal of the Transportation Research Board</i> , 2238, 8-14. http://dx.doi.org/10.3141/2238-02	0.471	5	.63
38	Klein, M. ¹ , and A. Goodchild (2011) "Pacific Highway Commercial Vehicle Operations: Border Policy and Logistical Efficiency in a Regional	0.471	1	.125

	Context.” Transportation Research Record: Journal of the Transportation Research Board, 2238, 15-23. https://doi.org/10.3141/2238-03			
39	Zhao, W. ¹ , and A. Goodchild (2011) “Truck Travel Time Reliability and Prediction in a Port Drayage Network.” Journal of Maritime Economics and Logistics, 13(4), 387-418. http://dx.doi.org/10.1057/mel.2011.24	1.229	11	1.11
40	Zhao, W. ¹ , E. McCormack, and A. Goodchild (2011) “Evaluating the Accuracy of GPS Spot Speeds for Estimating Truck Travel Speed.” Transportation Research Record: Journal of the Transportation Research Board, 2246, 101-110. http://dx.doi.org/10.3141/2246-13	0.471	29	3.63
41	Pitera, K. ¹ , F. Sandoval ¹ , and A. Goodchild (2011) “A Model for Emissions Reduction Evaluation in Urban Pickup Systems: A Heterogeneous Fleet Case Study.” Transportation Research Record, 2224, 8-16. https://doi.org/10.3141/2224-02	0.471	14	1.75
42	Gupta, G. ³ , Goodchild, A. and M. Hansen (2011) “A Competitive, Charter Air-Service Planning Model for Student Athlete Travel.” Transportation Research Part B, 45, 128-149. https://doi.org/10.1016/j.trb.2010.06.002	2.856	2	0.25
43	Wygonik, E. ¹ , and A. Goodchild (2011) “Evaluating CO2 Emissions, Cost, and Service Quality Trade-offs in an Urban Delivery System Case Study.” IATSS (International Association of Traffic and Safety Science) Research, 35(1), 7-15. https://doi.org/10.1016/j.iatssr.2011.05.001	0.178	47	5.22
44	Pitera, K. ¹ , A. Goodchild, and S. Albrecht ¹ (2010) “Canada’s Port of Prince Rupert as a Successful National Gateway Strategy.” Transportation Letters, 4(10), 261-271. http://dx.doi.org/10.3328/TL.2010.02.04.261-271	0.405	0	0
45	Zhao, W. ¹ , and A. Goodchild (2010) “The Impact of Truck Arrival Information on System Efficiency at Container Terminals.” Transportation Research Record, 2162, 17-24. http://dx.doi.org/10.3141/2162-03	0.482	11	1.1
46	Ta, C. ¹ , Goodchild, A., and B. Ivanov ³ (2010) “Building Freight Transportation System Resilience:	0.482	2	.2

	Actions for State DOTs.” Transportation Research Record, 2168, 129-135. http://dx.doi.org/10.3141/2168-15			
47	Kristjansson, K. ¹ , Bomba, M. ³ , and A. Goodchild (2010) “Intra-Industry Trade Analysis of US State – Canadian Province Pairs: Implications for the Cost of Border Delay.” Transportation Research Record, 2162, 73-80. https://doi.org/10.3141/2162-09	0.482	4	0.4
48	Goodchild, A., L. Leung ¹ and S. Albrecht ¹ (2010). “Free and Secure Trade Commercial Vehicle Crossing Times at the Pacific Highway Port of Entry.” Journal of Transportation Engineering, 136(10), 932-935. http://dx.doi.org/10.1061/(ASCE)TE.1943-5436.0000159	0.460	6	0.67
49	Andreoli, D. ¹ , Goodchild, A., and K. Vitasek ³ (2010). “The Rise of Mega Distribution Centers and the Impact on Logistical Uncertainty.” Transportation Letters, 2(2), 75-88. https://doi.org/10.3328/TL.2010.02.02.75-88	0.405	53	5.3
50	Zhao, W. ¹ , and A. Goodchild (2010) “The Impact of Truck Arrival Information on Container Terminal Rehandling.” Transportation Research Part E, 46(3), 327-343. http://dx.doi.org/10.1016/j.tre.2009.11.007	1.954	137	13.7
51	Goodchild, A., Albrecht, S. ¹ , and L. Leung ¹ (2009). “A Description of Commercial Cross Border Trips in the Cascade Gateway and Trade Corridor.” Transportation Letters, 1(3), 213-225. http://dx.doi.org/10.3328/TL.2009.01.03.213-225	0.405	5	0.55
52	O’Donnell, B. ¹ , Goodchild, A., Cooper, J., and H. Ozawa (2009). “Life Cycle Assessment of American Wheat: Regional Variation in Supply Chain Greenhouse Gas Emissions and Relative Transportation Contribution.” Transportation Research Part D, 14(7), 487-492. http://dx.doi.org/10.1016/j.trd.2009.05.003	1.214	16	1.45
53	Ta, C. ¹ , Goodchild, A., and K. Pitera ¹ (2009). “Structuring a Definition of Resilience for the Freight Transportation System.” Transportation Research	0.298	76	6.9

	Record: Journal of the Transportation Research Board, 2097, 19-25. http://dx.doi.org/10.3141/2097-03			
54	Goodchild, A., Albrecht, S. ¹ , Faust, K. ² , and L. Leung ¹ (2008). "A Container Terminal at the Port of Prince Rupert: considerations from a transportation perspective." Canadian Political Science Review, 2(4), 60-75.	0.307	3	0.25
55	Goodchild, A. and K. Mohan ¹ (2008). "The Clean Trucks Program: Evaluation of a Policy to Influence Marine Terminal Operations." Journal of Maritime Economics and Logistics, 10(4), 393-408. http://dx.doi.org/10.1057/mel.2008.13	1.229	18	1.5
56	Goodchild, A., Globerman, S., and S. Albrecht ¹ (2008). "Service Time Variability at the Blaine, Washington International Border Crossing and the Impact on Regional Supply Chains." Transportation Research Record: Journal of the Transportation Research Board, 2066, 71-78. https://doi.org/10.3141/2066-08	0.259	18	1.63
57	Goodchild, A., and C. Daganzo (2007). "Crane Double-Cycling in Container Ports: Planning Methods and Evaluation." Transportation Research Part B, 41(8), 875-891. https://doi.org/10.1016/j.trb.2007.02.006	1.948	135	19
58	Goodchild, A. and C. Daganzo (2006). Double-Cycling Strategies for Container Ships and Their Effect on Ship Loading and Unloading Operations. Transportation Science, 40(4), 473-483. https://doi.org/10.1287/trsc.1060.0148	1.27	124	9.64

Fully refereed publications in conference proceedings

Boyle, L. H. Kim, and A. Goodchild (2018) "Assessing Final Segment of Urban Goods Delivery Processes using Interactive Value Stream Mapping" *Human Factors and Ergonomics Society's 2018 Annual Meeting*

Ivanov, B. and A. Goodchild (2018) "The Final 50 Feet of the Urban Goods Delivery System." *Proceedings of the 2018 Annual Meeting of the Transportation Research Board*

Goodchild, B. Ivanov, E. McCormack, A. Moudon, J. Scully, J. Machado Leon¹, and G. Giron Valderrama¹ (2018) "Are Cities' Delivery Spaces in the Right Places? Mapping Truck Load/Unload Locations." *Proceedings of the 2017 International Conference on City Logistics*

Wang, Z.¹ A. Goodchild, and E. McCormack (2016) “A methodology for forecasting freeway travel time using reliability a methodology for forecasting freeway travel time reliability using GPS data.” *Transportation Research Procedia: Proceedings of the World Conference on Transportation Research*, Shanghai, China

Toy, J.¹ and A. Goodchild (2016) “Delivery by Drone: An Evaluation of Unmanned Aerial Vehicle Technology in Reducing CO2 Emissions in the Delivery Service Industry” *Annual Meeting of the Transportation Research Board*, Washington, D.C.

Drescher, J., A. Goodchild, and E. McCormack (2016) “A Description of Fatal Bicycle Truck Accidents in the United States: 2000 to 2010” *Annual Meeting of the Transportation Research Board*, Washington, D.C.

Goodchild, A. (2016) “Understanding the Puget Sound Food Distribution System” *Annual Meeting of the Transportation Research Board*, Washington, D.C.

Wygonik, E.¹ and A. Goodchild (2014) “Strategically leveraging freight vehicles to reduce carbon: insights from grocery delivery” *Annual Meeting of the Transportation Research Board*, Washington, D.C.

Wang, Z.¹ and A. Goodchild (2014) “GPS Data Analysis of Impact of Tolling on Truck Speed and Routing: Case Study in Seattle, Washington” *Annual Meeting of the Transportation Research Board*, Washington, D.C.

Browne, M. and A. Goodchild (2013) “Modeling Approaches to Address Urban Freight’s Challenges: A Comparison of the US and Europe”, *City Logistics Research: A Trans-Atlantic Perspective*, Washington, D.C.

Goodchild, A. and E. Wygonik¹ (2013) “Opportunities for Freight Efficiency and Logistics to Meet Energy and Environmental Goals in the Freight Sector” Assessing the Future of Freight: Energy and Environmental Modeling in the Freight Sector Workshop at the *Annual Meeting of the Transportation Research Board*, Washington, D.C.

Wygonik, E.¹ and A. Goodchild (2011) “Using a GIS-based Emissions Minimization Vehicle Routing Problem with Time Windows (EVRPTW) Model to Evaluate CO2 Emissions and Cost Trade-offs in a Case Study of an Urban Delivery System” *Annual Meeting of the Transportation Research Board*, Washington, D.C. P

Wygonik E.¹, A. Goodchild, and J. Villa (2010) “An Evaluation of and Proposed Solution to the Need for Shared Transportation Data at the US-Canadian Border”, *Annual Meeting of the Transportation Research Board*, Washington, D.C.

Wygonik, E.¹ Goodchild, A. and J. Villa (2010) “An Evaluation of and Proposed Solution to the Need for Shared Transportation Data at the US-Canadian Border”, *Annual Meeting of the Transportation Research Board*, Washington, D.C.

Goodchild, A. (2009) “Looking Forward: Next Steps for Improving Goods Movement Data” 88th *Annual Meeting of the Transportation Research Board*, Washington, D.C.

Dong, D., A. Goodchild, and H. Ding¹ (2007) “Trolley Routing and Scheduling Strategy for a Low-Viaduct Rail Transportation System with Double-Wide Yard Crane” *Transportation Research Board Annual Conference*, Washington, D.C. P

L. Dong, A. Goodchild, and H. Ding¹ (2007) “Trolley Routing and Scheduling Strategy for a Low-Viaduct Rail Transportation System with Double-Wide Yard Crane” *Transportation Research Board Annual Conference*, Washington, D.C.

Abstract refereed publications in conference proceedings

Pitera, K.¹ and A. Goodchild (2008) “Interpreting Resilience: An Examination of the Use of Resiliency Strategies within the Supply Chain and Consequences for the Freight Transportation System”, *International Trade and Freight Transportation Conference*, Ayia Napa, Cyprus

Chapters in edited books

Wygonik, E. and A. Goodchild (2014) *Moving Beyond Carbon: Delivery Logistics and Criteria Pollutants*. In Sustainable Logistics by Emerald Books

Niemeier D., Goodchild, A., Rowell, M¹., Schweitzer, L., Lin, J. (2012) *Transportation and Infrastructure*. In D. Niemeier (Ed.) *Assessment of Climate Change in the Southwest United States: A Technical Report Prepared for the U.S. National Climate Assessment*.

Goodchild, A., W. Zhao¹ and E. Wygonik¹ (2011). *Intermodal Freight Transportation Models*. In A. Errera (Ed.) Transportation and Warehousing. Wiley Encyclopedia of Operations Research and Management Science

Goodchild, A. and C. Daganzo (2008). *Crane Double Cycling in Container Ports*. In P. Iannou (Ed.) Intelligent Freight Transportation. Taylor and Francis

Chatwin, R., Bonduelle, Y., Goodchild, A., Harmon, F., & J. Mazzuco (1999). *Real Options Valuation for E-Business: A Case Study*. In L. Trigeorgis (Ed.) Real options and business strategy: Applications to decision making. Risk Books.

Non-Journal Articles

Alligood, A. and A. Goodchild “Rails next to trails: Addressing safety concerns at complex multimodal intersections.” *Traffic and Transit*, Fall 2018, 24-28

Goodchild, A., B. Ivanov, J. Machado, G. Giron, H. Kim “The freight of the West.” *Thinking Cities Magazine*, December 2017, 82-85

Goodchild, A. E. Wygonik², and B. Keough, (2016) “Deliver It All.” *Supply Chain Management Review*, Mar/April 2016, 20-26

Reports

Urban Freight Lab (2020). *Freight and Transit (FAT) Lane Case Study*

Urban Freight Lab (2020). *Common MicroHub Research Project: Research Scan*

McCormack, Ed. Anne Goodchild, Manali Sheth, et.al. (2020). Developing Design Guidelines for Commercial Vehicle Envelopes on Urban Streets

Urban Freight Lab (2020). The Final 50 Feet of the Urban Goods Delivery System: Completing Seattle's Greater Downtown Inventory of Private Loading & Unloading Infrastructure (Phase 2)

Urban Freight Lab (2019). Curbing Conflicts: Curb Allocation Change Project

Urban Freight Lab (2019). The Final 50 Feet of the Urban Goods Delivery System: Tracking Curb Use in Seattle

Urban Freight Lab (2019). The Final 50 Feet of the Urban Goods Delivery System: Pilot Test of an Innovative Improvement Strategy

Greene, Chelsea and Anne Goodchild (2019). Route Machine: UW Medicine Department of Medicine Courier Services

Urban Freight Lab (2019). Alley Inventory and Occupancy

Gabriela Giron, Barbara Ivanov, Anne Goodchild (2018). Safe Truck Parking on Interstate Corridors: I-5 and I-90 for PacTrans

Evaluation of Sound Transit Train Stations and Transit Oriented Development Areas for Common Carrier Locker Systems (2018) for Sound Transit, King County Metro, and the Seattle Department of Transportation

Hurwitz, D., M. Ghodrati Abadi, E. McCormack, A. Goodchild, M. Sheth (2018). An Examination of the Impact of Increasing Commercial Parking Utilization on Cyclist Safety in Urban Environments for PacTrans

Goodchild, A. E. McCormack, A. Bovbjerg M. Sheth (2017). Multi-Modal Intersections: Resolving Conflicts Between Trains, Motor Vehicles, Bicyclists and Pedestrians for Oregon Department of Transportation

Ivanov, B. E. McCormack, A. Goodchild, G. Giron, J. Machado, and H. Kim (2017). The Final Fifty Feet for Seattle Department of Transportation

Miles, S., A. Goodchild, M. Rowell and D. Huling (2017). Planning for Coastal Community Resilience to Tsunamis Using Transportation and Disaster Recovery Modeling for Sea Grant

Vadali, S. S. Sankarakumaraswamy, A. Goodchild, and K. Kuhn (2016). Guide for Conducting Benefit-Cost Analyses of Multimodal, Multijurisdictional Freight Corridor Investments for the National Cooperative Freight Research Program

Goodchild, A., P. Butrina¹, E. McCormack, J. Drescher (2015). An Evaluation of Safety Impacts of Seattle's Commercial Delivery Parking Pricing Project for PacTrans

Goodchild, A. and L. Ukrainczyk¹ (2015) Food Distribution Supply Chain Data Collection: Supply Chain Firm Interviews and Truck Counts for Washington State Department of Transportation

Ahanotu, D., E. McCormack, M. Hallenbeck, R. Margiotta, J. Hayes, B. Eisele, and A. Goodchild (2015). Guide for Identifying, Classifying, Evaluating, and Mitigating Truck Freight Bottlenecks for the National Cooperative Freight Research Program

Schmalensee, R., K. Boyer, J. Ellig, J. Gomez-Ibanez, A. Goodchild, W. Wilson, and F. Wolak (2015). Freight Rail Regulation, The National Academies of Sciences, Engineering, and Medicine

Goodchild, A., Sankarakumaraswamy, S.¹ and Chandra, P.¹ (2015). Truck Right Sizing, for UW Transportation Services

Goodchild, A., and E. Wygonik¹ (2014). Changing Retail Business Models and the Impact on CO₂ Emissions from Transport: E-commerce Deliveries in Urban and Rural Areas, for PacTrans

Hallenbeck, M., Goodchild, A., and J. Drescher¹ (2014). Travel Costs Associated with Flood Closures of State Highways Near Centralia/Chehalis, Washington, for Washington State Department of Transportation

Sage, J., Casavant, K., Goodchild, A., McCormack, E., Wang, Z.¹, McMullen, S., and D. Holder (2013). Development of a Freight Benefit /Cost Methodology for Project Planning, for Washington State Department of Transportation and PacTrans

Goodchild, A. McMullen, S. Wygonik, E.¹ and D. Holder (2013). Multimodal Freight Project Prioritization, for Oregon Department of Transportation

Drescher, J.¹, and A. Goodchild (2013). Port of Seattle Drayage Survey, Port of Seattle

Goodchild, A., M. Rowell¹, and A. Gagliano¹ (2012). Characterizing Oregon's Logistics Chains: linking commodities with operational practice, Report for the Oregon Department of Transportation

Goodchild, A., M. Rowell¹, and A. Gagliano¹ (2012). Characterizing Washington's Logistics Chains: linking commodities with operational practice, Report for Transportation Northwest

Goodchild, A., A. Gagliano¹, M. Rowell¹, and Z. Wang¹ (2012). Improving Statewide Freight Routing Capabilities for Sub-National Commodity Flows Draft Final Report, Report for the Washington State Department of Transportation

Goodchild, A., W. Zhao¹ and F. Sandoval¹ (2011). Defining the Washington State Truck Intermodal Network, Report for the Washington State Department of Transportation

Goodchild, A., and M. Rowell¹ (2011). Port of Vancouver Truck Study, Report for the Port of Vancouver USA

Sandoval, F.¹ and A. Goodchild (2011). Traffic Analysis and Safety Recommendations, Report for Seattle Iron and Metals

Kittelson & Associates (2010). Evaluating Alternative Operations Strategies to Improve Travel Time Reliability, Report for SHRP 2 Project L11 Strategic Highway Research Program (SHRP 2)

Goodchild, A., and M. Klein¹ (2010). Understanding Pacific Highway Commercial Vehicle Operations, Report for Transportation Northwest

Goodchild, A., F. Sandoval¹, K. Pitera¹, and E. Wygonik¹ (2010). Reducing Emissions from Urban Pick-up and Delivery Systems, Report for Transportation Northwest

Goodchild, A., F. Sandoval¹, K. Pitera¹, and E. Wygonik¹ (2010). Evaluating Emissions Reductions and Trade-offs in Urban Pickup and Delivery Systems, Report for Oregon Department of Transportation

Noronha, V. A. Goodchild, R. Church, and M. Goodchild (2010). Commercial Remote Sensing and Spatial Information Technologies Applied to Freight Congestion Mitigation U. S. Department of Transportation, Research & Innovative Technology Administration

Goodchild, A., Jessup, E., McCormack, E, Andreoli, D.¹, Rose, S.¹, Ta, C¹, and K. Pitera¹ (2009). Development and Analysis of a GIS-Based Statewide Freight Data Flow Network, Report for the Washington State Department of Transportation

Goodchild, A., Jessup, E., McCormack, E, Andreoli, D.¹, Rose, S.¹, Ta, C¹, and K. Pitera¹ (2009). Developing Washington State's Freight Transportation System Resilience, Report for the Transportation Northwest

Goodchild, A., Jessup, E., McCormack, E, Andreoli, D.¹ (2009). Requirements for a Washington Statewide Freight Simulation Model, Report for Transportation Northwest

Andreoli, D.¹ and A. Goodchild (2008). Puget Sound Warehousing and Distribution, Report for the Harry Bridges Center for Labor Studies

Goodchild, A. (2008). Changing Logistics Practices in the Pacific Northwest, Report for Transportation Northwest

Goodchild, A. (2008). Transportation Impacts of Structural and Geographic Shifts in the Pacific Northwest Warehousing Industry, Report for Transportation Northwest

Goodchild, A. and E. Jessup (2007). Improved Freight Modeling of Containerized Cargo Shipments between Ocean Port, Handling Facility, and Final Market for Regional Policy and Planning, Report for Transportation Northwest

OTHER SCHOLARLY ACTIVITY

Invited lectures, seminars, and webinars

1. REI Global Logistics invited webinar, *How Do Delivery Services Affect Sustainability?* (April, 2020)
2. Seattle Freight Advisory Board, *Evaluation of a Freight and Transit Only Land in Seattle* (January, 2020)

3. United States House of Representatives Transportation and Infrastructure Committee, *Where's My Stuff? Examining the Economic, Environmental, and Societal Impacts of Freight Transportation* (December, 2019)
4. International Urban Freight Conference, *Hyper-local and zero-emission urban deliveries via micro hubs: a solution for the future?* (October, 2019)
5. Urban Logistics School, *The Changing Nature of Urban Logistics: Studies from Seattle, WA* (August, 2019)
6. Convoy Radio, *An Economics Lesson with Dr. Anne Goodchild* (April, 2019)
7. University of Alberta Institute of Transportation Engineers, *Innovating Urban Freight* (March, 2019)
8. United States-European Commission Urban Freight Twinning Initiative, *Impacts of E-Commerce Panel* (September, 2018)
9. Sidewalk Labs, *Outside the box truck: Innovations in delivery that could change our cities* (September, 2018)
10. Alliance for Logistics Innovation through Collaboration in Europe, *The Delivery Economy Changes Everything: New Requirements for Urban Freight Research* (September, 2018)
11. Fleet Owner Webinar Series, *So Many Deliveries, So Little Time: Making it Through the Metropolitan Delivery Maze* (August, 2018)
12. Joint Meeting of the California, Oregon, and Washington State Transportation Commissions, *Freight Trends*, San Francisco, CA (August, 2018)
13. UW Public Health Nutritional Sciences winter seminar series, *How Supply Chain Transportation and Logistics Shape Food Quality and Access*, Seattle WA (February, 2018)
14. Sintef Frokostseminar, *The Role of Urban Goods in Sustainable Transportation Systems*, Trondheim, Norway (February, 2018)
15. University of Arkansas Invited Lecture, *The Final 50 Feet of the Urban Goods Delivery System*, Fayetteville AR (November, 2017)
16. Continuum College at UW Seminar Series, *The Final 50 Feet of the Urban Goods Delivery System*, Seattle WA (November, 2017)
17. Talking Freight; FHWA Webinar Series, *The Final 50 Feet of the Urban Goods Delivery System* (November, 2017)
18. International Urban Freight Conference Keynote Address, *The Delivery Economy Changes Everything: New Requirements for Urban Freight Research*, Long Beach CA (October, 2017)
19. UCLA Lake Arrowhead Symposium, *Density and Delivery*, Lake Arrowhead, CA (October, 2017)

20. Osher Lifelong Learning Institute UW Engineering Lecture Series, *Delivering Sustainability: Transporting Goods in Urban Spaces*, Seattle, WA (October, 2017)
21. Transportation Research Board Webinar Series, *Benefit-Cost Methodologies for Evaluating Multimodal Freight Corridor Investments* (September, 2017)
22. Ford City of Tomorrow Symposium, *Delivering the Future*, San Francisco CA (August 2017)
23. Keynote Address, World Trade Week 2017, *What We Know, What We Don't Know*, Long Beach CA (May 2017)
24. Northwest Institute for Advanced Computing (NIAC) Workshop on Data Sciences – Smart Mobility/Transportation, *UW Urban Freight Lab*, Seattle, WA (May 2017)
25. Northwestern University Transportation Seminar. *Delivering Sustainability: Transporting Goods in Urban Spaces*, Evanston, IL (April 2017)
26. Washington Society of Professional Engineers. *Delivering Sustainability: Transporting Goods in Urban Spaces*, Seattle, WA (April 2017)
27. Arizona State University Transportation Seminar. *Delivering Sustainability: Transporting Goods in Urban Spaces*, Phoenix, AZ (March 2017)
28. The Matt Townsend Show. *More online shopping means more delivery trucks. Are cities ready?*BYU Radio (January 2017)
29. Terminal Turn Time Coalitions. China Environment Forum's *Beyond the Waterfront*, Seattle WA (December 2016)
30. City Smarts: Engineering Resilient Communities. UW College of Engineering Lecture Series *Delivering Sustainability: Transporting Goods in Urban Spaces*, Seattle WA (November 2016)
31. Nectar Joint Cluster 2 and Cluster 3 International Workshop Keynote Address “The role of planning towards sustainable urban mobility” *Land use Patterns, Logistics, and Emissions*, Brno, Czech Republic (May 2016)
32. American Association of University Women, *Making, and Taking, Opportunity*, Scholar Recognition Gala, Seattle WA (April 2016)
33. Institute for Transportation Studies, *Landuse, Logistics, and Emissions*, University of California at Berkeley, Berkeley CA (March 2016)
34. Radio Interview, *Is the Delivery Economy Bad for the Planet?*, Innovation Hub, WGBH Boston (April 2015)
35. Keynote Address, *City Logistics and Sustainable Freight Workshop*, Vilamoura, Portugal (April 2015)

36. Keynote Address, *American Apparel and Footwear Association It's All About Logistics*, Long Beach, CA (January 2015)
37. Invited lecture, Moving Goods to Customers: Land Use, Logistics, and Emissions, *NCTSPM University Transportation Center Seminar, Georgia Tech* (September 2014)
38. Invited lecture, Sustainability Implications of Moving Goods to Customers; Shopping, Land Use, Logistics, and Emissions, *Pan-American Advanced Studies Institute, Columbia* (August 2014)
39. Webinar, Logistics Sprawl: Spatial patterns of logistics facilities and their impacts on metropolitan areas, *VREF Center of Excellence for Sustainable Urban Freight Systems*, (July 2014)
40. The Future of Washington's Transportation Systems, *Washington Clean Technology Alliance*, (July 2013)
41. State-of-the-Practice in Urban Freight Transport Research, *City Logistics Research: A Trans-Atlantic Perspective, EU-U.S. Transportation Research Symposium No. 1* (May 2013)
42. Using Surveys to Enhance Freight Models: Lessons Learned, *Freight Surveys Subcommittee Meeting, Annual Meeting of the Transportation Research Board*, (January 2013) *given by Andrea Gagliano
43. Italian Society of Transport Academics, Workshop on Recent Trends in Urban Freight Modeling, *Developing Freight Components of Metropolitan Travel Models* (December 2012,)
44. Southwest Climate Assessment Webinar Series: Urban Areas and Transportation, *Climate Impacts on Transportation in the Southwest* (December 2012)
45. Swiss Federal Institute of Technology Zurich, Institute for Transportation Planning and Systems, *Developing Truck Components in Regional Travel Models*, Zurich, Switzerland (November 2012)
46. Universitat Politecnica de Catalunya, Center for Innovation in Transport, *Coordinating Drayage Trucking and Marine Container Terminal Operations at North American West Coast Ports*, Barcelona, Spain (November 2012)
47. Imperial College London, Center for Transport Studies, *Coordinating Drayage Trucking and Marine Container Terminal Operations at North American West Coast Ports*, London, England (November 2012)
48. Spring 2012 Transportation Seminar Series: Oregon Modeling Collaborative, *Goods Movement: Improving Freight Routing Modeling Capabilities*, Portland, OR (June 2012)
49. Guidebook for Sharing Freight Transportation Data Workshop, *Revisions to Guidelines and Motivators*, Long Beach, CA (March 2012)
50. Port of Vancouver USA Port Commission, *Port of Vancouver Truck Study Results* (September 2011)

51. Seattle Iron and Metals, Seattle, WA, *Traffic Analysis at the Seattle Iron and Metal Facility. Recommendations to Improve Pedestrian Safety* (May 2011)
52. North American Linkages: Collaborators and Competitors: Understanding the connections between Canadian, American, and Mexican West Coast Ports and Gateway Regions, Long Beach, CA, *Technology, Productivity, and Innovation in Gateway Regions* (March 2011)
53. University of Toronto, Toronto, Ontario, *Estimating Freight Flows in WA State: Case studies in data-poor and data-rich environments* (June 2010)
54. University of Windsor, Windsor, Ontario, *Pacific Highway Border Crossing Commercial Vehicle Operations Research* (June 2010)
55. Seminar on Canada-US Border Management Policy Issues, *Washington DC Near Border Operations and Logistical Efficiency: Implications for Policy Makers*, (April 2010)
56. Washington State Department of Transportation Freight Working Group, Olympia, WA, *Freight Resilience Research*, (April 2010)
57. Research Exposed! *Transportation Research: Why Improving Transportation Improves Quality of Life*, (February 2010)
58. International Mobility and Trade Corridor Meeting, Douglas BC *Commercial Vehicle Operations Survey Preliminary Analysis of Near Border Operations*, (January 2010)
59. Puget Sound Regional Council Freight Mobility Roundtable *Getting Washington State Products to Market – A look at Potato distribution and the importance of I-90 for Agriculture* (September 2009)
60. UC Berkeley Institute for Transportation Studies Seminar, *Truck Arrival Sequencing and the Impact on Re-handling work at Marine Terminals* (November 2008)
61. North American Agrifood Market Integration Conference in Austin Texas, *Cascadia Border Operations, Issues, and Consequences for the Agrifood Market* (May 2008)
62. Canada America Society of Seattle, *The New Model for Port Development and Consequences for Regional Trade*, (April 2008)
63. Trans Border Working Group Meeting in Coeur D’Alene Idaho, *Northwest border operations: delay and the impact on supply chains*, (April 2008)
64. Pacific Northwest Canadian Studies Consortium Annual Meeting in Vancouver BC, *Rainstorm and Flood Damage in Northwest British Columbia and the Port of Prince Rupert*, (February 2008)
65. University of Washington Urban Design and Planning Seminar, *Managing the Transportation System: the Clean Trucks Program as an Example of Complexity*, (November 2007)

66. University of Washington Industrial Engineering Seminar, *Marine Terminal Operations and the Clean Trucks Program*, (October 2007)
67. Steelhead Symposium, Prince Rupert, British Columbia, *A Container Terminal at the Port of Prince Rupert: considerations from a transportation perspective*, (September 2007)
68. Center for Transportation Studies at Portland State University, *Understanding the Impact of Variability in Border Crossing Times on Regional Supply Chains*, (June 2007)
69. Canadian/American Border Trade Alliance meeting in Bellingham, WA, *Understanding the Impact of Variability in Border Crossing Times on Regional Supply Chains*, (November 2006)
70. Center for Transportation Studies at Portland State University, *Developing US Port Productivity*, (November 2006)
71. BERGER/ABAM Construction Waterfront Meeting, *Port Productivity*, (October 2006)
72. METRANS Seminar Series at the University of Southern California, *Operations Improvements to Port Productivity: The Challenge of Many Players*, (November 2005)
73. Institute of Transportation Studies, University of California at Davis, *An Operating Strategy to Improve Port Efficiency*, (April 2005)
74. Engineering Systems Division, the Massachusetts Institute of Technology, *An Operating Strategy to Improve Port Efficiency*, (March 2005)
75. Department of Civil and Environmental Engineering at the University of Washington, *An Operating Strategy to Improve Port Efficiency*, (March 2005)
76. University of California at Berkeley Transportation Seminar Series, *Crane Double Cycling in Container Ports: Algorithms, Evaluation, and Planning* (December 2005)

Presentations given at conferences

(P indicates the presentation was given in poster format, the name in bold was the presenter)

1. **Ranjbari, W., J. Machado, G. Dalla Chiara, D. Mackenzie, and A. Goodchild** “Testing Curbside Management Strategies to Mitigate the Impacts of Ride-Hailing Services on Traffic” Annual Meeting of the Transportation Research Board (January, 2020)
2. **Dalla Chiara, G., and A. Goodchild** “A Method to Empirically Investigate the Effect of Parking Availability on Commercial Vehicles Travel Times in Urban Areas” Annual Meeting of the Transportation Research Board (January, 2020)
3. **Giron, G., and A. Goodchild** “Cracking the Freight Data Nut: Characterization and Analysis of the Center City Inbound and Outbound Vehicle Volumes from Cordon Counts” Annual Meeting of the Transportation Research Board (January, 2020)
4. **Kim, H., A. Goodchild, and L. Boyle** “Factors associated with truck dwell times in downtown Seattle” International Urban Freight Conference, Long Beach, CA (October,

2019)

5. **Dalla Chiara, G., and A. Goodchild** “Do commercial vehicles cruise for parking?” International Urban Freight Conference, Long Beach, CA (October, 2019)
6. **McCormack, E., and A. Goodchild** “Developing Design Guidelines for Commercial Vehicle Envelopes on Urban Streets” International Urban Freight Conference, Long Beach, CA (October, 2019)
7. **Giron-Valderama, G., and A. Goodchild** “Cracking the Freight Data Nut: Estimating Center City Inbound and Outbound Vehicle Volumes from Cordon Counts” International Urban Freight Conference, Long Beach, CA (October, 2019)
8. **Goodchild, A., E. McCormack, M. Sheth, D. Hurwitz** “Including All Users: Measuring Commercial Vehicle Envelopes on Urban Streets” Canadian Transport Research Forum, Vancouver, British Columbia (May, 2019)
9. **Goodchild, A., D. Mackenzie, A. Ranjbari, J.L. Machado-Leon, G. Dalla Chiara** “More or Less Curb? Testing Strategies to Mitigate the Impact of Ride-Sourcing on Traffic” Canadian Transport Research Forum Annual Meeting, Vancouver, British Columbia (May, 2019)
10. **Dalla Chiara, G., B. Ivanov, A. Goodchild, G. Giron, H. Kim, J. Machado, C. Greene** “How are Modern Cities Meeting New Delivery Demands? Actively Managing the Load Space Network” Urbanism Next Conference, Portland, Oregon (May, 2019)
11. **Giron-Valderama, G., and A. Goodchild** “Characterization and Estimation of Traffic Volume: A Truck and Passenger Cordon Study of the Seattle Urban Core”
12. **Kim, H., A. Goodchild, B. Ivanov, M. Sheth** “Can Common Carrier Lockers Ease the E-Commerce Delivery Explosion in Cities?” Annual Meeting of the Transportation Research Board, Washington D.C. (January, 2019)
13. **Machado, J.L., G. del Carmen Giron Valderrama, A. Goodchild** “Bringing Alleys to Light in Urban Freight Load/Unload Infrastructure Systems: A Seattle Case Study” Annual Meeting of the Transportation Research Board, Washington D.C. (January, 2019)
14. **del Carmen Giron Valderrama, G., J.L. Machado, A. Goodchild** “Freight and Seattle’s CBD: Giving Insight About the Battle for the Curb” Annual Meeting of the Transportation Research Board, Washington D.C. (January, 2019)
15. **Kim, H., B. Ivanov, A. Goodchild** “Will Common Carrier Lockers in Public Spaces Ease the E-Commerce Delivery Explosion in Cities?” *VREF Urban Freight Conference*, Gothenburg, Sweden (October 2018)
16. **Giron, G. J.L. Machado Leon, A. Goodchild** “Understanding the use of the curb space and alley for unloading and loading operations: A Seattle Case Study” *VREF Urban Freight Conference*, Gothenburg, Sweden (October 2018)

17. **Machado, J.L., A. Goodchild** “Estimating the Location of Off-Street Infrastructure for Delivery and Pick-Up Operations in Dense Urban Areas” *VREF Urban Freight Conference*, Gothenburg, Sweden (October 2018)
18. **Kim, H., L. Boyle, A. Goodchild, and B. Ivanov** “Delivery Process for Buildings in Downtown Seattle” United States-European Commission Urban Freight Twinning Initiative Workshop, Baltimore, MD (September, 2018)
19. **Machado, J., G. Giron, A. Goodchild, B. Ivanov, and E. McCormack** “New Methodology and Results of GIS Mapping and Measuring Private Loading Bays and Docks: Seattle Case Study” United States-European Commission Urban Freight Twinning Initiative Workshop, Baltimore, MD (September, 2018)
20. **Giron, G., J. Machado, B. Ivanov, and A. Goodchild** “Commercial Vehicle Occupancy Study: Four Key Findings” United States-European Commission Urban Freight Twinning Initiative Workshop, Baltimore, MD (September, 2018)
21. **Machado, J., G. Giron, B. Ivanov, and A. Goodchild** “Final 50 Feet of the Urban Goods System: Alley Survey and Occupancy Study” United States-European Commission Urban Freight Twinning Initiative Workshop, Baltimore, MD (September, 2018)
22. **Butrina, P., M. Sheth, A. Goodchild, and E. McCormack** “Measuring the Cost Trade-Offs Between Electric-Assist Cargo Bikes and Delivery Trucks in Dense Urban Areas “ Nectar Cluster 3 Meeting: The Future of Freight Transportation, Venice, Italy (March, 2018)
23. **Alligood, A. and A. Goodchild** “A GIS-based comparison of Local Food Access Designs in King County, WA” Nectar Cluster 3 Meeting: The Future of Freight Transportation, Venice, Italy (March, 2018)
24. **Butrina, P. and A. Goodchild** “What a household survey can tell us about online purchasing patterns” Nectar Cluster 3 Meeting: The Future of Freight Transportation, Venice, Italy (March, 2018)
25. **L. Boyle, H. Kim, and A. Goodchild** " Delivery Process For an Office Building in the Seattle Central Business District." Annual Meeting of the Transportation Research Board, Washington D.C. (January, 2018)
26. **Bovbjerg, A., M. Sheth, E. McCormack, A. Goodchild, and P. Butrina.** "Rails Next to Trails: A Methodology for Selecting Appropriate Safety Treatments at Complex Multimodal Intersections." Annual Meeting of the Transportation Research Board, Washington, D.C. (January, 2018)
27. **Machado, J., G. Giron, A. Goodchild, and E. McCormack.** "Mapping Urban Freight Infrastructure for Planning: A Demonstration of a Methodology." Annual Meeting of the Transportation Research Board, Washington, D.C. (January, 2018)
28. **Ivanov, B. and A. Goodchild.** "The Final 50 Feet of the Urban Goods Delivery System." Annual Meeting of the Transportation Research Board, Washington, D.C. (January, 2018)
29. **McCormack, E., A. Goodchild, W. Eisele, and M. Hallenbeck.** "Development and Application of a Framework to Classify and Mitigate Truck Bottlenecks to Improve Freight

Mobility." Annual Meeting of the Transportation Research Board, Washington, D.C.
(January, 2018)

30. **José Luis Machado-León**, Anne Goodchild “Comprehensive service management of commercial vehicle parking capacity as a best practice: A predictive tool of offstreet infrastructure for delivery and pick-up operations” International Urban Freight Conference, Long Beach CA (October, 2017)
31. **Manali Sheth**, Anne Goodchild, Ed McCormack, Eric Herde, & Polina Butrina “Cargo Bike and Delivery Truck Trade-Offs in Seattle” International Urban Freight Conference, Long Beach CA (October, 2017)
32. **Polina Butrina**, Gabriela Giron Valderrama, Haena Kim, & Anne Goodchild “What a household survey can tell us about online purchasing patterns” International Urban Freight Conference, Long Beach CA (October, 2017)
33. **Anna Gjoertz Bovbjerg**, Anne Goodchild “Finding a (Food) Way: A GIS Modeling Approach to Quantifying Local Food Access Transportation Systems in Geographically Constrained Urban Areas” International Urban Freight Conference, Long Beach CA (October, 2017)
34. **Anna Gjoertz Bovbjerg**, Manali Sheth, Anne Goodchild, & Ed McCormack “Improving Pedestrian and Bike Safety at Urban TrailHighway -Railroad Crossings” ” International Urban Freight Conference, Long Beach CA (October, 2017)
35. **Anne Goodchild** “The Final 50 Feet of the Urban Goods Delivery System” ” International Urban Freight Conference, Long Beach CA (October, 2017)
36. **Haena Kim**, Anne Goodchild, Linda Boyle “Final 50 Feet Delivery Process Flow Maps of Buildings in Downtown Seattle” International Urban Freight Conference, Long Beach CA (October, 2017)
37. **Manali Sheth**, Masoud Ghodrat Abadi, Anne Goodchild, David Hurwitz, & Ed McCormack “The Impact of Increasing Commercial Parking Utilization on Cyclist Safety in Urban Areas” International Urban Freight Conference, Long Beach CA (October, 2017)
38. **Giron Valderrama**, Anne Goodchild, José Luis Machado-León, & Ed McCormack “A new survey method for mapping private urban freight infrastructure” International Urban Freight Conference, Long Beach CA (October, 2017)
39. Goodchild, Giron and **Ivanov** “Safe Truck Parking on PacTrans Interstate Corridors: I-5 and I-90” PacTrans Regional Conference, Seattle, WA (October, 2017) P
40. Ghodrat Abadi, Sheth, Goodchild, McCormack, and **Hurwitz** "An Examination of the Impact of Increasing Commercial Parking Utilization on Cyclist Safety in Urban Environments" PacTrans Regional Conference, Seattle, WA (October, 2017) P
41. **Ivanov**, Goodchild, McCormack, Valderrama¹, Leon¹, Scully, Moudon “Are Cities’ Delivery Spaces in the Right Places? Mapping Truck Load/Unload Locations” 10th International Conference on City Logistics, Phuket, Thailand (June 2017)

42. Vadali, Goodchild, **Sankarakumaraswamy**¹, Kuhn "Addressing Uncertainty in the Estimation of the Benefits and Costs of Complex Transportation Infrastructure Projects", Society for Benefit Cost Analysis Annual Conference, Washington, DC (March 2017)
43. Vadali, Goodchild, **Sankarakumaraswamy**¹, Kuhn "Estimation of Logistics Cost Savings for a Multi-Jurisdictional Freight Rail Project using a BCA Framework", Society for Benefit Cost Analysis Annual Conference, Washington, DC (March 2017)
44. Rowell, **Goodchild** "The Effect of Tsunami Damage on Passenger and Forestry Transportation in Pacific County, Washington", TRB Annual Meeting, Washington, DC (January 2017) P
45. Vadali, Goodchild, **Sankarakumaraswamy**¹, Kuhn "Benefit Cost Evaluation of a Multimodal and Multijurisdictional Freight Corridor Project", TRB Annual Meeting, Washington, DC (January 2017) P
46. **Sankarakumaraswamy**¹, McCormack, Goodchild, Hallenbeck "Evaluating Global Positioning System Data Usability for Freight Performance Measures" TRB Annual Meeting, Washington, DC (January 2017) P
47. **Machado**¹, Goodchild "Review of Transportation Performance Metrics for Community-Based Planning of Resilience", *Annual Meeting of the Transportation Research Board*, Washington, DC (January 2017) P
48. Butrina¹, **Giron**¹, **Machado**¹, Goodchild, Ayyalasomayajula¹ "From the Last Mile to the Last 800 ft: Key Factors in Urban Pickup and Delivery of Goods" *Annual Meeting of the Transportation Research Board*, Washington, DC (January 2017)
49. Goodchild, McCormack, Butrina¹ "An Exploration of Bicycle Safety Impacts from Seattle's Commercial Vehicle Activity" *VREF Urban Freight Conference*, Gothenburg, Sweden (October 2016)
50. Goodchild, **McCormack**, Sankarakumaraswamy¹ "Using sparse GPS data to estimate vehicle traces and reliability statistics for major freight corridors" *World Conference on Transportation Research*, Shanghai China (July 2016)
51. Goodchild, Wang¹, **McCormack** "A methodology for forecasting freeway travel time using GPS data" *World Conference on Transportation Research*, Shanghai China (July 2016)
52. **Dubie**¹, Goodchild "Logistics Sprawl: Chicago" *World Conference on Transportation Research*, Shanghai China (July 2016)
53. **Wygonik**¹, Bassok, McCormack, Goodchild, and Carlson "Forecasting Tools for Analyzing Urban Land Use Patterns and Truck Movement: A Case Study and Discussion" *Annual Meeting of the Transportation Research Board*, Washington DC (January 2016) P
54. **Toy**¹, Goodchild "Delivery by Drone: An Evaluation of Unmanned Aerial Vehicle Technology in Reducing CO2 Emissions in the Delivery Service Industry" *Annual Meeting of the Transportation Research Board*, Washington DC (January 2016)

55. **Drescher, Goodchild, McCormack** “A Description of Fatal Bicycle Truck Accidents in the United States: 2000 to 2010” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2016)
56. **Goodchild**, “Understanding the Puget Sound Food Distribution System” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2016)
57. **Wygonik**, Goodchild and Mayes “Land Use Patterns, Logistics, and Emissions” *INFORMS Annual Meeting*, Philadelphia, PA (November 2015)
58. **Drescher**¹ and Goodchild “Commercial Vehicle Loading Zones and Bicyclist Safety” *PacTrans Regional Transportation Conference; Smarter Transportation Safety and Technology*, Seattle WA (October 2015)
59. **Drescher**¹ and Goodchild “A Study of Bicycle-Truck Collisions in Norway and the United States” *International Urban Freight Conference*, Long Beach CA (October 2015)
60. **Mayes**, Goodchild, and Wygonik “Modeling Vehicle Miles Traveled and Emissions Considerations for Goods Delivery Scenario Decisions” *International Urban Freight Conference*, Long Beach CA (October 2015)
61. **Ukrainczyk**¹ and Goodchild “Trucking Operation and Business Strategy Food Manufacturers, Distributors, and Retailers in the Washington State Food Supply Chain” *International Urban Freight Conference*, Long Beach CA (October 2015)
62. **McCormack**, Hallenbeck, Goodchild, and Sankarakumaraswam¹ “Analysis of NPMRDS Data for Estimating Transportation Performance Measures for the U.S. National Highway Systems” *International Urban Freight Conference*, Long Beach CA (October 2015)
63. Goodchild and **Wygonik**¹ “Evaluating the impacts of density on urban goods movement externalities” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2015)
64. Wang¹ and **Goodchild** “Methodology for Forecasting Freeway Travel Time Reliability Using GPS Data” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2015)
65. **Goodchild** and Wygonik¹ “Moving Goods to Customers: Land Use, Logistics, and Emissions”, *PacTrans Region 10 Conference*, Seattle WA (October 2014) P
66. **Wang**¹ and Goodchild. “A Framework for Determining Highway Truck-Freight Benefits and Economic Impacts” *International Transportation Economic Development Conference*, Dallas TX (April 2014)
67. **Wygonik**¹ and Goodchild. “Strategically leveraging freight vehicles to reduce carbon: insights from grocery delivery” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2014)
68. **Wygonik**¹, Holder, McMullen, and Goodchild. “The Current State of Multimodal Freight Project Impacts Estimation” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2014)

69. Dablanc, **Ogilvie**¹, and Goodchild. “Logistics Sprawl: Differential Warehousing Development in Los Angeles and Seattle, 1998-2009” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2014)
70. **Wang**¹ and Goodchild. “GPS Data Analysis of Impact of Tolling on Truck Speed and Routing: Case Study in Seattle, Washington” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2014)
71. **Pitera**, Boyle, and Goodchild. “An analysis of the societal benefits and costs of using on-board monitoring systems for commercial vehicle operations” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2014)
72. **Pitera** and Goodchild “Changing University Student Perceptions of Freight Transportation: Developing the Future Freight Workforce” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2014)
73. **Goodchild**, Rowell¹, Gagliano¹, “Examining Carrier Transportation Characteristics Along the Supply Chain”, *Innovations in Freight Demand Modeling and Data Symposium*, Washington DC (October 2013)
74. Goodchild, **Drescher**¹ “Port Drayage Trucking: A Seattle Case Study “, *International Urban Freight Conference*, Long Beach, CA (October 2013)
75. Wang¹, **Goodchild** “A GPS Data Analysis of the Impact of Tolling on Truck Routing: A Case Study in Seattle, WA “, *International Urban Freight Conference*, Long Beach, CA (October 2013)
76. Wang¹, **Goodchild** “Measuring Truck Travel Time Reliability Using Truck Probe GPS Data“, *International Urban Freight Conference*, Long Beach, CA (October 2013)
77. **Goodchild**, Rowell¹, Gagliano¹ “Understanding Carrier Transportation Characteristics Along the Supply Chain “, *International Urban Freight Conference*, Long Beach, CA (October 2013)
78. **Pei**, Fischer, Ahanotu, Casavant, Goodchild, Lawson “NCFRP 20 Project - Guidebook for Developing Subnational Commodity Flow Data”, *International Urban Freight Conference*, Long Beach, CA (October 2013)
79. **Wang**¹ and Goodchild “Scheduling double girder bridge crane with double cycling in rail based transfer automated container terminals”, *Second INFORMS Transportation Science and Logistics Society Workshop*, Asilomar, CA (June 2013).
80. **Wang**¹ and Goodchild “Net Benefit of Repealing Bicycle Helmet Regulations—Implications for the City of Seattle” *Bicycle Urbanism Symposium*, Seattle, WA (June 2013) P
81. **McMullen**, Holder, Wang¹, McCormack, Goodchild, Casavant, Sage “Reliability Measurement, Value of Travel Time, and the Value of Travel Time Reliability for Freight “ *Annual Meeting of the Transportation Research Forum*, Annapolis, MD (March 2013)

82. **Goodchild** and Wygonik¹ “Opportunities for Freight Efficiency and Logistics to Meet Energy and Environmental Goals in the Freight Sector” Assessing the Future of Freight: Energy and Environmental Modeling in the Freight Sector Workshop at the *Annual Meeting of the Transportation Research Board*, Washington DC (January 2013)
83. **Wang**¹, Sage, Goodchild, , Jessup, Casavant, and Knutson “Framework for Determining Highway Truck-Freight Benefits and Economic Impacts” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2013)
84. Rowell¹, Gagliano¹, **Goodchild** “Understanding Truck Route Choice: Implications for Travel Models” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2013)
85. Pitera, **Boyle**, and Goodchild “Economic Analysis of Onboard Monitoring Systems in Commercial Vehicles” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2013)
86. **Wygonik**¹, Sandoval, and Goodchild “Modeling Urban Goods Movement: Metaheuristics for the VRP with Emissions, Time Windows, and Fleet Heterogeneity” *7th Annual UTC Spotlight Conference: Sustainable Energy and Transportation: Strategies, Research, and Data*, Washington, DC (November 2012)
87. Sandoval, **Wygonik**¹, and Goodchild “Metaheuristics for the VRP with Emissions, Time Windows, and Fleet Heterogeneity” *Institute for Operations Research and the Management Sciences (Informs) 2012 Annual Meeting*, Pheonix, AZ (October 2012)
88. **Wygonik**¹, **Bassok**, Goodchild, McCormack, and Carlson “Urban Goods Movement and Smart Growth” *Innovations in Urban Freight Workshop*, Seattle, WA (February 2012)
89. Zhao¹ and **Goodchild** “Using Truck Appointment System to Improve Yard Efficiency of Container Terminals “ *Annual Meeting of the Transportation Research Board*, Washington DC (January 2012) P
90. **Wygonik**¹, Bassok, Goodchild, McCormack, and Carlson “Sustainable Urban Goods Movement: Emerging Research Agendas” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2012) P
91. **Pitera**¹, Boyle, Goodchild “Process Comparison of Recording Hours of Service for Commercial Vehicle Operations: Electronic Versus Paper” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2012) P
92. **Goodchild** and Wygonik¹ “Substituting Freight for Passenger Travel: Evaluating CO₂ Emissions and Costs with a Case Study” *National Urban Freight Conference*, Long Beach CA (October 2011)
93. **Ivanov**³ and Goodchild “Quantifying Freight Benefits for Project Planning and Prioritization” *National Urban Freight Conference*, Long Beach CA (October 2011)
94. Goodchild and **Ivanov**³ “Defining the Washington State Truck-Intermodal Network” *National Urban Freight Conference*, Long Beach CA (October 2011)

95. **McCormack**, Carlson, Goodchild, Wygonik¹, and Bassok³ “Urban Goods Movement: Diverse Stakeholders and Divergent Views” *National Urban Freight Conference*, Long Beach CA (October 2011)
96. **Goodchild**, McCormack, Carlson, Wygonik¹, and Bassok³ “Summarizing the Literature on Smart Growth and Urban Goods Movement” *National Urban Freight Conference*, Long Beach CA (October 2011)
97. **Rowell**¹, Goodchild, and Brooks³ “Developing Port Truck Routing Data from Multiple Sources” *National Urban Freight Conference*, Long Beach CA (October 2011)
98. Goodchild and **Sandoval** “Impact on operational cost reductions from Demand Connectivity” *National Urban Freight Conference*, Long Beach CA (October 2011)
99. **Goodchild**, Pitera¹, and Sandoval “Emissions Reduction Evaluation in Urban Pickup Systems: A Heterogeneous Fleet Case Study” *National Urban Freight Conference*, Long Beach CA (October 2011)
100. **Pitera**¹ and Goodchild “Measuring Perceptions of Freight Transportation” *2011 Institute of Transportation Engineers Western District Annual Meeting*. Anchorage, AK (July 2011)
101. **Pitera**¹, Sandoval¹, and Goodchild “Emissions Reduction Evaluation in Urban Pickup Systems: A Heterogeneous Fleet Case Study” *International Transport Forum*. Leipzig, Germany (May 2011) P
102. **Pitera**¹ and Goodchild “Assessing Active Learning within a Civil Engineering Graduate Course” *University of Washington Teaching and Learning Symposium*. Seattle WA (April 2011) P
103. **Pitera**¹, Sandoval¹, and Goodchild “A Case Study Analysis of Trade-offs between Cost, Emissions, and Service in an Urban Delivery Fleet” *Annual Meeting of the Transportation Research Forum*, Long Beach CA (March 2011)
104. **Wygonik**¹ and Goodchild “Using a GIS-based Emissions Minimization Vehicle Routing Problem with Time Windows (EVRPTW) Model to Evaluate CO2 Emissions and Costs: Two Case Studies Comparing Changes Within and Between Fleets” *Annual Meeting of the Transportation Research Forum*, Long Beach CA (March 2011)
105. **Wygonik**¹ and Goodchild “Using a GIS-based Emissions Minimization Vehicle Routing Problem with Time Windows (EVRPTW) Model to Evaluate CO2 Emissions and Cost Trade-offs in a Case Study of an Urban Delivery System” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2011) P
106. Goodchild, **Pitera**¹, and McCormack “Examining the differential responses of shippers and carriers to travel time variability” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2011) P
107. **Klein**¹ and Goodchild “Pacific Highway Commercial Vehicle Operations: Border Policy and Logistical Efficiency in a Regional Context”, *Annual Meeting of the Transportation Research Board*, Washington DC (January 2011) P

108. **Goodchild**, McCall², and Zumerchik³ “Reducing Train Turn Times With Double Cycling in New Terminal Designs”, *Annual Meeting of the Transportation Research Board*, Washington DC (January 2011)
109. Zhao¹, McCormack, and Goodchild “Evaluating the Accuracy of GPS Spot Speeds for Estimating Truck Travel Speed”, *Annual Meeting of the Transportation Research Board*, Washington DC (January 2011) P
110. **Pitera**¹, Sandoval¹, and Goodchild “A Model for Emissions Reduction Evaluation in Urban Pickup Systems: A Heterogeneous Fleet Case Study”, *Annual Meeting of the Transportation Research Board*, Washington DC (January 2011) P
111. Wygonik¹ and **Goodchild** “Modeling a Novel Method for Reducing Transportation Greenhouse Gas Emissions”, *INFORMS Annual Meeting*, Austin, TX (November 2010)
112. Sandoval¹ and **Goodchild** “Models for Emissions Reduction Evaluation in Urban Pickup and Delivery Systems: Three Case Studies” *INFORMS Annual Meeting*, Austin, TX (November 2010)
113. **Goodchild** and Zhao¹ “Using Advanced Truck Arrival Information to Improve Intermodal Transfer Efficiency” *Intermodal Freight Technology Working Group*, Seattle, WA (October 2010)
114. **Klein**¹ and Goodchild “Pacific Highway Commercial Vehicle Operations: Border Policies and Regional Logistical Efficiency” *IMTC Steering Committee Meeting*, Blaine, WA (July 2010)
115. **Zhao**¹, Goodchild, and McCormack “Estimating truck travel speed from GPS spot speed” *NATMEC*, Seattle, WA (June 2010)
116. Goodchild and **Klein**¹ “Pacific Highway Commercial Vehicle Operations: Border Policies and Regional Logistical Efficiency” *Translog 2010*, Hamilton, Ontario (June 2010)
117. Goodchild, Rose¹, Andreoli¹, Jessup “Activity Modeling of Freight Flows in Washington State: Case Studies of the Resilience of Potato and Diesel Distribution Systems”, *3rd TRB Conference on Innovations in Travel Modeling*, Tempe, AZ (May 2010)
118. **Goodchild**, Sandoval¹, and Wygonik¹ “Emissions Reductions and Operational Trade-offs in Pickup and Delivery Systems”, *Northwest Transportation Conference*, Corvallis, OR (February 2010)
119. **Ta**¹, Goodchild, and Ivanov³ “Building Freight Transportation System Resilience: Actions for State DOTs”, *Annual Meeting of the Transportation Research Board*, Washington DC (January 2010) P
120. Kristjansson¹, Bomba³, and **Goodchild** “Intra-Industry Trade Analysis of US State – Canadian Province Pairs: Implications for the Cost of Border Delay”, *Annual Meeting of the Transportation Research Board*, Washington DC (January 2010)

121. **Wygonik**¹, Goodchild, and Villa “An Evaluation of and Proposed Solution to the Need for Shared Transportation Data at the US-Canadian Border”, *Annual Meeting of the Transportation Research Board*, Washington DC (January 2010) P
122. **Zhao**¹, Goodchild “The Impact of Truck Arrival Information on System Efficiency at Container Terminals” *Annual Meeting of the Transportation Research Board*, Washington DC (January 2010)
123. **Ta**¹, Goodchild, and Ivanov³ "Changing Landscapes: Past, Present, and Future," *Washington Chapter American Planning Association Annual Conference*, Vancouver, WA (November 2009)
124. **Zhao**¹ and Goodchild “The Impact of Truck Arrival Information on System Efficiency at Container Terminals”, *National Urban Freight Conference*, Long Beach, CA (October 2009)
125. **Goodchild** and Sandoval¹ “Evaluating Emission Reductions and Trade-offs in Urban Pickup and Delivery Systems”, *National Urban Freight Conference*, Long Beach, CA (October 2009)
126. **Sandoval**¹ and Goodchild “Evaluating Emissions Reduction and Trade-offs in Urban Pickup and Delivery Systems”, *INFORMS Annual Meeting*, San Diego, CA (October 2009)
127. **Goodchild**, Andreoli¹, Jessup, McCormack “Supply-Chain Mapping to Understand Washington State Freight System Resilience”, *Data and Tools for Linking Goods Movement, Air Quality, and Transportation Infrastructure Decisions*, Irvine, CA (June 2009)
128. **Sandoval**¹ and Goodchild “Emissions in Urban Pick-up and Delivery Systems” Odysseus Conference, Cesme, Turkey (May 2009)
129. **Goodchild**, “Freight Transportation Resilience”, Maritime and Port Security Summit: Resilience Planning in a Difficult Economy, Seattle, WA (May 2009)
130. **Ta**¹, Goodchild, and Pitera¹ “Defining Resilience in Freight Transportation”, *101st American Planning Association National Planning Conference*, Minneapolis, Minnesota. (April 2009) P
131. **Wygonik**¹, Goodchild, and Villa “U.S-Canada Land Border Crossings: A Review of Data and Framework for Collaboration”, *50th Annual Transportation Research Forum*, Portland, Oregon, (March 2009) P
132. **Pitera**¹, Goodchild “Interpreting Resilience: An Examination of the Use of Resiliency Strategies Within Supply Chains” *50th Annual Transportation Research Forum*, Portland, Oregon (March 2009)
133. **Sandoval**¹, Goodchild “Emissions Reductions and the Trade-offs in Urban Pickup and Delivery Systems” *50th Annual Transportation Research Forum*, Portland, Oregon (March 2009)
134. **Goodchild**, Albrecht¹, Leung¹ “A Description of Cross Border Trips and Crossing Times at the Cascade Gateway and Trade Corridor”, *50th Annual Transportation Research Forum*, Portland, Oregon (March 2009)

135. **Goodchild** “Northwest Ports and the Gateway Initiatives” *50th Annual Transportation Research Forum*, Portland, Oregon (March 2009)
136. **Albrecht**¹, Goodchild “An Examination of the FAST Commercial Clearance Border Crossing Program: A Policy for All Commodities and Shippers?” *50th Annual Transportation Research Forum*, Portland, Oregon (March 2009)
137. Goodchild, Albrecht¹, **Leung**¹ “Cross-Border Delay and Transportation Patterns and Freight Commodity Profile at Western Cascade Gateway and Trade Corridor”, *88th Annual Meeting of the Transportation Research Board*, Washington DC, (January 2009) P
138. Goodchild, **Leung**¹, Albrecht¹ “Investigation of Commercial Vehicle Crossing Times at Pacific Highway Port of Entry” *88th Annual Meeting of the Transportation Research Board*, Washington DC, (January 2009) P
139. **Ta**¹, Goodchild, and Pitera¹ “Structuring a Definition of Resilience for the Freight Transportation System”, *88th Annual Meeting of the Transportation Research Board*, Washington DC, (January 2009) P
140. **Goodchild** “Looking Forward: Next Steps for Improving Goods Movement Data” *88th Annual Meeting of the Transportation Research Board*, Washington DC (January 2009)
141. Goodchild and Albrecht¹ (given by **McCormack**) “FAST Program and Its Impact on Cross-Border Trade in Cascade Gateway Trade Corridor” *88th Annual Meeting of the Transportation Research Board*, Washington DC (January 2009)
142. **Gupta**, Goodchild, and Hansen “Charter Air Service for Conference Travel” *INFORMS Annual Meeting*, Washington DC. (October 2008)
143. **Zhao**¹ and Goodchild “Container pickup sequence and the impact on re-handles at marine terminals” *INFORMS Annual Meeting*, Washington DC. (October 2008)
144. **Andreoli**¹, Goodchild, and Vitasek³ “On the Rise of Mega DCs: Recent Trends and Implications for the Future” *INFORMS Annual Meeting*, Washington DC., (October 2008)
145. **Ta**¹, Goodchild, and Pitera¹ “Structuring a Definition of Resilience for Freight Transportation Systems”, *Plan It for the Planet, Stewardship for the 21st Century, hosted by the American Planning Association Washington Chapter and Idaho Chapter*, (October 2008) P
146. Goodchild, **Leung**¹, and Albrecht¹ “An Investigation of Commercial Vehicle Crossing Times at the Pacific Highway Port-of-Entry”, *North American Freight Flows Conference hosted by the Transportation Research Board*, Irvine, CA, (September 2008,) P
147. **Goodchild**, Albrecht¹, Leung “Freight Commodity Profile and Transportation Patterns in the Cascade Gateway and Trade Corridor”, *North American Freight Flows Conference*, Irvine, CA (September 2008)

148. **Pitera**¹ and Goodchild “Use of resiliency strategies within the supply chain and consequences for the freight transportation system” *International Trade and Freight Transportation Conference*, Ayia Napa, Cyprus, (September 2008)
149. **Goodchild** and Albrecht¹ "Service Times at Vehicle Processing Facilities" 2008 Pacific Northwest Regional Economic Conference, Tacoma WA (May 2008)
150. **Andreoli**¹ and Goodchild “Structural and Geographic Shifts in the U.S. Warehousing Industry: Natura non facit saltum” *2008 Annual Meeting of the Association of American Geographers*, Boston MA(April 2008)
151. **O’Donnell**¹, Goodchild, Cooper and Ozawa “Life Cycle Assessment of American Wheat Considering Mode Choice and Backhaul”, *49th Annual Transportation Research Forum*, Forth Worth, TX (March 2008)
152. **Gould**, Neimeier, and Goodchild “A Cart Before the Horse: Disaggregate Locomotive Emissions Models and Data Constraints”. *Transportation Research Board Conference on Data for Goods Movement Impacts on Air Quality*, Irvine, CA, (March 2008) P
153. **Noronha** and Goodchild “Tracking Drayage Trucks and Modeling Freight Trips in the Los Angeles Basin”. *Transportation Research Board Conference on Data for Goods Movement Impacts on Air Quality*, Irvine CA(March 2008) P
154. **Goodchild**, Globerman and Albrecht¹ “Service Time Variability at the Blaine, Washington International Border Crossing and the Impact on Regional Supply Chains”, *Transportation Research Board Annual Meeting*, Washington DC (January 2008)
155. Goodchild, Globerman, and **Albrecht**¹ “Service Time Variability at the Blaine, Washington International Border Crossing and the Impact on Regional Supply Chains”, *Border Regions in Transition Conference*, Bellingham, WA and Victoria, BC (January 2008)
156. **Goodchild** and Mohan¹ “Estimating the Impact of the Clean Trucks Program on Terminal Operations”, *National Urban Freight Conference*, Long Beach, CA (December 2007)
157. Goodchild, **Fujisawa**¹, and Jessup “Modeling Containerized Cargo Shipments Between Ocean Port and Handling Facilities” *INFORMS Annual Meeting*, Seattle, WA (November 2007)
158. Goodchild and **Mohan**¹ “Trolley Assignment Model for a Container Terminal with a Low Viaduct Rail System” *INFORMS Annual Meeting*, Seattle, WA (November 2007)
159. Goodchild, **Fujisawa**¹, and Jessup “Improved Freight Modeling of Containerized Cargo Shipments between Ocean Port, Handling Facility, and Final Market for Regional Policy and Planning”. *Transportation Research Board Conference on Research Issues in Freight*, Washington D.C., (October 2007) P
160. **Goodchild**, Albrecht¹ “Service time variability at vehicle authentication/authorization facilities and the impact on supply chains” *World Conference on Transportation Research*, Berkeley CA (June 2007)

161. Dong, **Goodchild**, and Ding¹ “Trolley Routing and Scheduling Strategy for a Low-Viaduct Rail Transportation System with Double-Wide Yard Crane” *Transportation Research Board Annual Conference*, Washington D.C., (January 2007) P
162. **Goodchild** and Mohan¹ “Developing US Port Productivity”, *INFORMS Annual Meeting*, Pittsburgh, PA (November 2006)
163. **Goodchild** “Crane Double Cycling in Container Ports: Planning Methods and Evaluation”, *National Urban Freight Conference*, Long Beach, CA (February 2006),
164. **Goodchild** and Daganzo “Port Planning for Double Cycling Crane Operations”, *Transportation Research Board Annual Meeting*, Washington D.C. (January 2006)
165. Gupta, **Goodchild**, and Hansen “The Feasibility of a Private Airline for a College Sports League”, *INFORMS Annual Meeting*, San Francisco, CA (November 2005)
166. **Goodchild** and Daganzo “An Operating Strategy to Improve Port Efficiency”, *INFORMS Annual Meeting*, San Francisco, CA (November 2005)
167. **Goodchild** and Daganzo “Improving Port Efficiency Using Double Cycling”. *CORS/INFORMS Joint International Meeting*, Banff, AB (May 2004)
168. **Goodchild** and Daganzo, “Reducing Ship Turn-Around Time Using Double Cycling ” *Transportation Research Board Annual Conference*, Washington D.C., (January 2004) P
169. **Goodchild** and Daganzo, “Reducing Ship Turn-Around Time Using Double Cycling” *Pacific Regional Intercollegiate Symposium for the Management Sciences*, Berkeley, CA (March 2003)
170. **Goodchild** and Daganzo “Reducing Ship Turn-Around Time Using Double Cycling”. *University of California Transportation Center Student Conference*, Los Angeles, CA (February 2003)
171. **Goodchild** and Daganzo, “Reducing Ship Turn-Around Time Using Double Cycling”. *INFORMS Annual Meeting*, San Jose, CA (November 2002)

Professional society memberships.

- World Conference on Transportation Research (2017 to 2018)
- INFORMS (2003 to 2018)
- Transportation Research Forum, (2009 to 2018)
- Women’s Transportation Seminar (2003 to 2018)
- American Society of Civil Engineers (2008 to 2018)

Article Reviews

Journal	Approximate reviews per year
Transportation Letters	4
Transportation Research Part A	3
Transportation Research Part B	3

Transportation Research Part C	2
Transportation Research Part E	1
Transportation Research Board	10
Transportation Science	1
METRANS	3
Operations Research	1
Transportation Northwest	2
Journal of Waterway, Port, Coastal, and Ocean Engineering	0.3
NYUTC, UCTC	0.3
Open Transportation Journal	0.3
Computers and Operations Research	2
World Conference on Transportation Research	0.3
UW Milwaukee Research Growth Initiative	0.3
International Journal of Production Economics	1.5
Oregon Transportation Research and Education Consortium	0.5
Royalty Research Fund	0.3
European Journal of Operations Research	1.5
OR Spectrum	0.3
Naval Research Logistics	0.3
National Science Foundation	3
ISTTT	8

GRADUATE STUDENTS

Chaired Doctoral Degrees

Students Completed					
Student Name	Dissertation Title	Advisory role	Notes	Year initiated (incoming degree)	Year completed
Zun Wang	Integrated Freight Performance Measurement and Project Prioritization	Advisor and committee chair	Published 2 peer reviewed papers, two under review at time of graduation.	2011 (MS)	2014
Erica Wygonik	Sustainable Urban Freight Transportation	Advisor and committee chair	Published 4 peer reviewed papers, 1 under review, and 2 book chapters at time of graduation	2008 (BSCE)	2014
Kelly Pitera	Economic and Policy Implications of the Use of Technology in Commercial Vehicle Operations	Advisor and co-committee chair	Published 6 peer reviewed papers.	2006 (BSCE)	2012

Wenjuan Zhao	Integrating drayage truck and marine terminal operations to improve intermodal system efficiency	Advisor and committee chair	Published 5 peer reviewed papers, 1 book chapter.	2007 (MS)	2011
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Current Students					
Student Name	Dissertation Title	Advisory role	Notes	Year initiated (incoming degree)	Year completed
Haena Kim	Freight delivery simulation	Advisor and committee co-chair		2015	Expected 2020
Gabriela Giron	Freight Score	Advisor and committee chair		2018	2021
Jose Luis Machado Leon	Urban Freight Infrastructure	Advisor and committee chair		2018	2021
Fiete Krutein	Evacuation Modeling	Advisory and committee chair		2020	2024
Maura Rowell	COLREGS	Advisory and committee chair		2010	2020

Chaired Thesis Masters Degrees

Student Name	Chair/CoChair	Thesis Title	Graduation Date
Seyma Gunes	Chair		June 2021
Jose Luis Machado Leon	Chair	Estimating the Location of Private Infrastructure for Loading and Unloading of Freight in Dense Urban Areas	June 2018
Polina Butrina	Chair	Preparing cities for package demand growth: predicting neighborhood demand and implementing truck VMT reduction strategies	Winter 2018
Anna Bovbjerg	Chair	Finding a (Food) Way: A GIS Modeling Approach to Quantifying Local Food Transportation Systems	Summer 2017

Jerome Drescher	Chair	Economic Characteristics of Drayage Drivers at the Port of Seattle	Spring 2014
Felipe Sandoval	Chair	Emissions, Cost, and Customer Service Trade-off Analyses in Pickup and Delivery Systems	Spring 2011
Matthew Klein	Chair	Pacific Highway Commercial Vehicle Operations: Border Policy and Logistical Efficiency in a Regional Context	Spring 2010
Erica Wygonik	Chair	Using a GIS-based Emissions Minimization Vehicle Routing Problem with Time Windows(EVRPTW) Model to Evaluate CO2 Emissions and Costs: Two Case Studies Comparing	Spring 2010
Kristjan Kristjansson	Chair	Analysis of Intra- and Inter-Industry Trade Flows of U.S. State - Canadian Province Pairs: Implications for the Cost of Border Delay	Spring 2009
Li Leung	Chair	Statistical Analysis of Commercial Vehicle Border Crossing Times and Volumes: Case Study of the Pacific Highway Port-of-Entry Free And Secure Trade Lane	Spring 2009
Brendan O'Donnell	Co-Chair (with Joyce Cooper)	Life Cycle Assessment of American Wheat: Analysis of Regional Variations in Production and Transportation	Spring 2009
Katherine Davis	Co-Chair (with Mark Hallenbeck)	An Evaluation of Engineering Treatments and Pedestrian and Motorist Behavior on Major Arterials in Washington State	Winter 2008

Chaired Research Report Masters Degrees

Student Name	Chair/CoChair	Graduation Date
Yuan Wang	Chair	Summer 2020
Caroline White	Chair	Spring 2018
Micaela Rodriguez	Chair	Spring 2018
Trevor Davis	Chair	Spring 2018
Juan Higuera	Chair	Spring 2018
Yihong Zou	Chair	Fall 2017
Xi Xie	Chair	Summer 2018
Briana Calhoun	Chair	Fall 2017
Gabriela Giron	Chair	Winter 2018
Kai Kuo	Chair	Spring 2017
Bochen Xu	Chair	Winter 2017

Pramod Ayyalasomayajula	Chair	Summer 2016
Luka Ukrainczyk	Chair	Fall 2015
Melaku Dubie	Chair	Spring 2015
Jordan Toy	Co-Chair (with Don MacKenzie)	Spring 2015
Oli Frenchowicz	Chair	Spring 2015
Kelly Fearon	Chair	Spring 2015
Scott Ogilvie	Chair	Spring 2014
Kassandra Leingang	Chair	Spring 2012
William Witherspoon	Chair	Spring 2012
Maura Rowell	Chair	Spring 2012
Michael Houston	Chair	Spring 2011
Joshua Smith	Chair	Spring 2011
Ariel Davis	Chair	Spring 2010
Sunny Rose	Chair	Spring 2010
Chilan Ta	Chair	Spring 2010
Barbara De St. Croix	Chair	Spring 2009
Adam Dreibelbis	Chair	Spring 2009
Luan Nguyen	Chair	Spring 2009
Tsit Lam	Chair	Spring 2008
Carl Langford	Chair	Spring 2008
Anna Lee	Chair	Spring 2008
Matthew Beaulieu	Chair	Spring 2007
David Kieninger	Chair	Spring 2007
Charles Smith	Chair	Spring 2007
Hanzhi Ding	Chair	Spring 2006
Danielle Dunjic	Chair	Spring 2006

Other significant student supervision

Student Name	Level of Supervision	Graduation Completed
Saumya Sinha	GSR, Dissertation	2018
David Tomporowski	Committee member, thesis	2020 (expected)
Manali Sheth	Committee member, thesis	2019 (expected)
Steven Hwang	Committee member, thesis	2016
Jakob Kotas	GSR, Dissertation	2016
Kristen Arney	GSR Dissertation	2016
Burcu Balcik	GSR, Dissertation	2008
Kenneth Perrine	Committee member, Dissertation	2008
Michael Lowry	Committee member, Dissertation	2009
Naama Sheffer	Undergraduate research supervision	2009
Kasey Faust	Undergraduate research supervision	2010
JG McCall	Undergraduate research supervision	2010
Kari Watkins	Committee member, Dissertation	2011

Chilan Ta	Committee member, MS thesis, Urban Planning	2011
Billy Witherspoon	Undergraduate research supervision	2011
Dadi Ottosson	Committee member, thesis	2011
Jin Hyun Hong	Committee member, Dissertation	2013
Andrea Gagliano	Undergraduate research supervision	2013

RESEARCH ACTIVITIES

Funded Research

Funding Agency	Project Title	Total Amount	Your Amount	Role	Dates (start-finish)
Seattle Department of Transportation	Ballard Cordon Study	\$50,000	\$50,000	Principal Investigator	03/2020 – 09/2020
Urban Freight Lab	Common MicroHub	\$200,000	\$200,000	Principal Investigator	01/2020 – 12/2020
Seattle Flu Study	Optimization of Supply and Transportation Networks in an Epidemic Situation in Collaboration with the Seattle Flu Study				10/2019 – 06/2020
PacTrans	Managing Increasing Demand for Curb Space in the City of the Future	\$180,000	\$120,000	Co-Principal Investigator	07/2019-07/2020
Sound Transit and King County Metro	DOE Cost Share	\$25,000	\$25,000	Principal Investigator	09/2019 – 12/2019
Seattle Public Utilities	Food Rescue Innovation	\$50,000	\$50,000	Principal Investigator	08/01/2019 – 12/31/2019
Seattle Department of Transportation	Freight and Transit Access Lane Study	\$30,000	\$30,000	Principal Investigator	06/2019 – 12/2019
UW Department of Lab Medicine	Route Machine	\$25,000	\$25,000	Principal Investigator	03/2019 – 06/2019
Department of Homeland Security	Center for Excellence for Cross-Border	\$3.85 million	\$500,000	Local Principal Investigator	01/2019 – 01/2021

	Threat Screening and Supply Chain Defense				
Seattle Department of Transportation	Cargo Bike Delivery Pilot Test in Seattle: Analysis of Public Benefits and Costs Evaluation	\$160,000	\$160,000	Principal Investigator	01/2019 – 12/2019
Mobility Innovation Center	Curb Allocation Evaluation	\$200,000	\$200,000	Principal Investigator	10/2018 – 06/2019
Department of Energy	Technology Integration to Gain Commercial Efficiency for the Urban Goods Delivery System, Meet Future Demand for City Passenger and Delivery Load/Unload Spaces, and Reduce Energy Consumption	\$1,500,000	\$1,130,000	Principal Investigator	10/2018 – 12/2021
Intellectual Ventures	Corridor Analysis	\$7,000	\$7,000	Principal Investigator	06/2018 – 09/2018
SDOT	Truck Cordon Count	\$250,000	\$250,000	Principal Investigator	08/2018 – 08/2019
PacTrans	Urban Freight Toolkit Development	\$10,000	\$10,000	Principal Investigator	07/2018 – 07/2019
SDOT	Alley Inventory	\$300,000	\$300,000	Principal Investigator	12/2017 – 12/2018
King County, Sound Transit, Seattle DOT	Common Carrier Locker	\$30,000	\$30,000	Principal Investigator	08/2017 – 02/2018
PacTrans	Final 50 Feet of the Urban Goods Delivery System: Pilot Testing an Innovative Improvement Strategy	\$40,000	\$40,000	Principal Investigator	07/2017 – 07/2018

PacTrans	Defining Truck Load/Unload Envelopes	\$180,000	\$90,000	Co-Principal Investigator	07/2017 – 07/2018
National Highway Cooperative Research Program	Multimodal Freight Transportation Research Roadmap	\$250,000	\$75,000	Investigator	05/2017 – 06/2018
Hawaii DOT	Freight's Role in Smart Growth	\$10,000	\$10,000	Principal Investigator	11/2016 – 02/2017
King County	Order and Pickup Smartphone App	\$41,300	\$20,000	Investigator	01/2017 – 12/2017
PacTrans	Safe Truck Parking in PacTrans Interstate Corridors: I-5 and I-90.	\$50,000	\$50,000	Principal Investigator	09/2016 – 09/2017
SDOT	Freight Accessibility in the CBD	\$365,000	\$365,000	Principal Investigator	07/2016 – 12/2019
Boeing HorizonX, Building Owners and Managers Association (BOMA) – Seattle King County, curbFlow, Expeditors International of Washington, Ford Motor Company, General Motors, Kroger, Michelin, Nordstrom, PepsiCo, Terreno Realty Corporation, USPack, UPS, United States Postal Service (USPS)	Research Affiliates Program	\$210,000/year	\$210,000/year	Principal Investigator	11/2016 – Present

ODOT	Multi-modal intersections: resolving conflicts between trains, motor vehicles, bicyclists and pedestrians	\$150,000	\$150,000	Principal Investigator	01/2016 – 07/2018
PacTrans	Parking Utilization on Cyclist Safety in Urban Environments	\$180,000	\$86,000	Investigator	07/2015 – 12/2016
PacTrans	An Evaluation of Safety Impacts of Seattle’s Commercial Delivery Parking Pricing Project	\$60,000	\$60,000	Principal Investigator	02/2015 – 02/2016
FHWA	Behavioral based National Freight Demand Modeling	\$1,000,000	\$150,000	Investigator	12/2014 – 09/2017
USDOT	SHRP2 Local Freight Data	\$140,000	\$140,000	Principal Investigator	08/2014 – 12/2015
University of Washington	Right Sizing the Truck Fleet	\$20,000	\$20,000	Principal Investigator	09/2014 – 06/2015
Washington Sea Grant	Planning for Coastal Community Resilience to Tsunamis Using Transportation and Disaster Recovery Modeling	\$250,000	\$70,000	Investigator	07/2013 – 01/2015
NCHRP 08-98	Guide for Identifying, Classifying, Evaluating, and Mitigating Truck Freight Bottlenecks	\$350,000	\$70,000	Investigator	05/2014 – 09/2015
WSDOT	I-5/Chehalis Transportation Benefit Analysis	\$80,100	\$30,000	Co-PI	10/2013 – 09/2014

NCFRP 46	Benefit-Cost Methodologies for Evaluating Multimodal Freight Corridor Investments	\$450,000	\$100,000	Investigator	07/2013 – 01/2015
PacTrans	Changing Retail Business Models and the Impact on CO2 Emissions from Transport: E-commerce Deliveries in Urban and Rural Areas	\$40,000	\$40,000	Principal Investigator	07/2013 – 07/2014
PacTrans	Developing a robust survey methodology for collecting information on the port truck drayage industry	\$30,000	\$30,000	Principal Investigator	07/2012 – 12/2013
Port of Seattle	Evaluating Port Drayage	\$50,000	\$50,000	Principal Investigator	07/2012 – 06/2013
University of Paris	Sustainable Urban Transportation – visiting scholar	\$8,921	\$8,921	Principal Investigator	11/2012 – 01/2013
Oregon Department of Transportation	Capturing Multimodal Comparisons in Freight Project Prioritization	\$150,000	\$75,000	Co-Principal Investigator (co-PI)	07/2012 – 12/2013
PacTrans	Developing a Performance Measurement Approach to Freight Project Prioritization	\$240,000	\$100,000	Investigator	07/2012 – 12/2013
Washington State Department of Transportation (WSDOT)	Defining Freight Network Criteria	\$39,980	\$39,980	Principal Investigator	05/2011 – 10/2011
WSDOT	Freight Benefit/Cost Analysis	\$350,000	\$200,000	Principal Investigator	06/2011 – 01/2013

Port of Vancouver	Origin-Destination Study	\$30,000	\$30,000	Principal Investigator	03/2011 – 03/12
Federal Highway Administration (FHWA)	Transportation Education Development Pilot Program	\$160,000	\$125,000	Investigator	06/2010 – 08/2011
ODOT	Characterizing Oregon's Logistics Chains	\$95,000	\$95,000	Principal Investigator	01/2011 – 07/2013
Transportation Northwest (TransNow)	Characterizing Washington's Logistics Chains	\$59,000	\$59,000	Principal Investigator	07/2010 – 07/2011
National Cooperative Freight Research Program (NCFRP)	Impact of Smart Growth on Metropolitan Goods Movement	\$250,000	\$175,000	Investigator	09/2010 – 09/2011
NCFRP	Guidebook for Sharing Freight Transportation Data	\$250,000	\$40,000	Investigator	09/2010 – 09/2011
FHWA	Border Wait Time Study	\$40,000	\$10,000	Investigator	05/2010 – 08/2010
Canadian Consulate	Student Mobility Grant	\$5,000	\$5,000	Principal Investigator	05/2010 – 05/2011
Canadian Studies Program	Travel Grant	\$1,200	\$1,200	Principal Investigator	07/2009 – 07/2010
WSDOT	Improving Statewide Freight Routing Capabilities for Sub-National Commodity Flows	\$205,000	\$87,500	Co-Principal Investigator	07/2009 – 07/2011
TransNow	Understanding Pacific Highway Commercial Vehicle Operations	\$37,882	\$37,882	Principal Investigator	07/2009 – 07/2010
FHWA	Developing a Framework for Collecting and Sharing Data and Information	\$79,554	\$16,062	Investigator, Principal Investigator Juan Villa, TTI	11/2008 – 02/2009
ODOT/TransNow	Evaluating Emissions Reductions and Trade-offs in	\$96,941 (\$60,110 ODOT and	\$96,941 (\$60,110 ODOT and	Principal Investigator	07/2009 – 07/2010

	Urban Pickup and Delivery Systems	\$36,831 TransNow)	\$36,831 TransNow)		
FHWA Strategic Highway Research Program	Evaluating Alternative Operation Strategies for Mitigating the Impact of Travel Time Variability	\$200,000	\$20,000	Investigator	09/2008 – 02/2010
TransNow	Changing Logistics Practices in the Pacific Northwest	\$25,081	\$25,081	PI	07/2008 – 07/2009
Alaska Department of Transportation	Changing Logistics Practices in the Pacific Northwest	\$40,000	\$40,000	Principal Investigator	07/2008 – 07/2009
Canadian Studies	Travel Grant	\$1,000	\$1,000	Principal Investigator	07/2008 – 07/2009
TransNow	Requirements for a Washington Statewide Freight Simulation Model	\$29,448	\$29,448	Principal Investigator	07/2008 – 07/2009
UW College of Engineering	Course Development Grant	\$25,000	\$25,000	Principal Investigator	09/2007 – 06/2008
WSDOT	Building a Resilient Freight System	\$155,000	\$155,000	Principal Investigator	07/2007 – 07/2009
TransNow	Washington State Freight System Resiliency	\$72,000	\$72,000	Principal Investigator	07/2007 – 07/2008
Harry Bridges Center for Labor Studies and TransNow	Puget Sound Warehousing and Distribution Research Project	\$16,000 (\$10,000 Labor Center, \$6,000 TransNow)	\$16,000 (\$10,000 Labor Center, \$6,000 TransNow)	Principal Investigator	07/2007 – 07/2008
United States Department of Transportation	Commercial Remote Sensing and Spatial Information Technologies	\$2,000,000	\$115,861	Investigator	07/2007 – 07/2009

	Applied to Freight Congestion Mitigation				
Border Policy Research Institute (BPRI)	Understanding Very Long Wait Times at the Border: Analysis and Solutions	\$56,539	\$56,539	Principal Investigator	07/2007 – 07/2008
Los Angeles Alliance for a New Economy	Evaluation of Port Trucking Policy	\$39,417	\$39,417	Principal Investigator	04/2007 – 12/2007
BPRI	Variability in Border Crossing Times and the Impact on Regional Supply Chains	\$78,951	\$78,951	Principal Investigator	06/2006 – 06/2007
TransNow	Improved Freight Modeling of Containerized Cargo Shipments between Ocean Port, Handling Facility, and Final Market for Regional Policy and Planning	\$60,523	\$60,523	Principal Investigator	06/2006 – 06/2007
WSDOT	Student Research Funds	\$13,931	\$13,931	Principal Investigator	06/2006 – 12/2006
Global Trade Transportation and Logistics Program	Planning Grant	\$5,000	\$5,000	Principal Investigator	06/2007
Advance	Transitional Grant	\$10,867	\$10,867	Principal Investigator	06/2006

DOCUMENTATION OF TEACHING EFFECTIVENESS

Courses Taught & Student Evaluations

Course	Title	Quarter	Credit Hrs	Num	Evals	Item 1	Item 3	Item 4	Avg, Item 1-4
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CET 599	Transportation Seminar	Winter 2020	1	20	11	3.9	4.3	4.6	4.1
CET 511	Freight and Passenger Planning	Autumn 2019	4	34	33	4.7	4.8	4.7	4.7
SCTL 501	Supply Chain Logistics and Analysis	Autumn 2019	3	28	28	4.7	4.8	4.8	4.7
CET 587	Transportation Logistics	Spring 2019	4	11	10	3.7	4.5	4.2	3.9
CET 599	Research Seminar	Winter 2019	1	9	8	4.8	4.8	4.8	4.8
SCTL 501	Supply Chain Logistics and Analysis	Fall 2018	4	27	27	4.7	4.8	4.7	4.6
CEE 587	Transportation Logistics	Spring 2018	4	10	8	4.5	4.8	4.3	4.5
SCTL 501	Supply Chain Logistics and Analysis	Summer 2017	4	35	33	4.7	4.8	4.8	4.7
CEE 587	Transportation Logistics	Spring 2017	4	18	17	4.7	4.8	4.8	4.8
SCTL 501	Supply Chain Logistics and Analysis	Summer 2016	4	24	21	4.5	4.8	4.7	4.6
CEE 587	Transportation Logistics	Spring 2016	4	27	24	4.5	4.8	4.7	4.7
CEE 500	Graduate Seminar	Winter 2016	1	23	16	4.2	4.2	4.2	4.2
CEE 327	Transportation Engineering	Winter 2016	5	60	44	3.2	3.1	2.9	3.1
SCTL 501	Supply Chain Logistics and Analysis	Summer 2015	3	35	34	4.4	4.8	4.5	4.5
SCTL 505	External Supply Chain Transportation Risks	Summer 2015	5	28	Yes (23)	3.7	3.5	3.5	3.5
CEE 587	Transportation Logistics	Spring 2015	4	28	Yes (24)	4.3	4.6	4.6	4.4
CEE327	Transportation Engineering	Winter 2015	5	55	Yes (40)	2.7	2.9	2.8	2.8
CEE 591	Freight Transportation	Fall 2014	3	12	Yes	4.1	4.0	4.8	4.5
SCTL 501	Logistics and Analysis	Fall 2014	3	30	Yes	4.2	4.2	4.8	4.7
SCTL 505	External Supply Chain Transportation Risks	Summer 2014	5	29	Yes	4.7	4.9	4.7	4.8

CEE 587	Transportation Logistics	Spring 2014	4	13	Yes	4.4	4.5	4.5	4.4
SCTL 501	Supply Chain Logistics and Analysis	Fall 2013	3	30	Yes	4.1	4.7	4.6	4.4
CEE 587	Transportation Logistics	Spring 2012	4	27	Yes	3.7	4.3	4.0	3.8
CEE 591	Freight Transportation	Winter 2012	3	13	Yes	4.4	4.8	4.6	4.4
CEE 320	Transportation Engineering	Fall 2011	3	54	Yes	4.1	4.4	4.3	4.2
CEE 587	Transportation Logistics	Spring 2011	4	22	Yes	4.6	4.8	4.5	4.5
CEE 320	Transportation Engineering	Fall 2010	3	69	Yes	3.9	4.1	4.0	4.0
CEE 587	Transportation Logistics	Spring 2010	4	22	Yes	3.8	4.1	4.1	3.9
CEE 320	Transportation Engineering	Fall 2009	3	74	Yes	3.8	3.7	3.8	3.7
ENVIR 512	Keystone Project II	Spring 2009	4	4	No				
ENVIR 511	Keystone Project I	Winter 2009	4	4	No				
CEE 587	Transportation Logistics	Spring, 2009	4	18	Yes	4.0	4.4	4.0	4.1
CEE 599	Transportation Policy	Winter, 2009	3	13	No				
CEE 320	Transportation Engineering	Fall, 2008	3	40	Yes	3.4	3.6	3.3	3.4
CEE 320	Transportation Engineering	Spring 2008	3	68	Yes	3.7	3.8	3.5	3.7
CEE 599/498	Transportation Logistics	Spring 2008	3	25	Yes	3.5	3.8	3.8	3.6
CEE 100	Introduction to Civil Engineering	Winter 2008	1	75	Yes	4.2	4.0	4.1	4.1
CEE 599	Transportation Logistics	Spring 2007	3	15	Yes	3.7	3.9	3.7	3.7
CEE 498	Transportation Logistics	Spring 2007	3	5	Yes	3.3	3.8	3.5	3.4
CEE 599	Transportation Logistics	Spring 2006	3	15	Yes	3.9	3.4	3.9	3.8
CEE 498	Transportation Logistics	Spring 2006	3	5	Yes	3.3	3.5	3.5	3.4

Supervision of independent study

Quarter	Number of Students	Total Student Credit Hours
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Winter 2006	1	3
Spring 2006	1	3
Summer 2006	1	2
Fall 2006	2	5
Winter 2007	2	8
Spring 2007	4	14
Summer 2007	2	7
Fall 2007	2	9
Winter 2008	2	8
Spring 2008	2	8
Summer 2008	1	3
Fall 2008	2	10
Winter 2009	3	12
Spring 2009	4	14
Fall 2009	1	5
Winter 2010	1	3
Spring 2011	2	6
Winter 2012	3	8
Spring 2012	2	6
Fall 2012	1	5
Winter 2013	1	3
Spring 2013	1	3
Fall 2013	3	1
Winter 2015	3	2
Spring 2015	5	3
Fall 2015	1	3
Winter 2016	4	15
Spring 2016	1	2
Fall 2016	2	5
Winter 2017	2	6
Spring 2017	2	4
Summer 2017	1	2
Fall 2017	3	8
Winter 2018	2	6
Spring 2018	1	3
Fall 2018	3	7
Spring 2019	2	5
Total	76	217

List of other teaching contributions

- SCTL 507 and 509 instruction
 - Practicum Project Supervision
 - Winter and Summer quarters 2014, 2015, 2016
- CEE 500 instruction winter quarter 2007, 2008, 2009, 2010, 2011, 2012, 2014, 2015, 2016, 2017, 2018

- Co-Developed Courses:
 - Introduction to Civil Engineering (CEE100)
 - SCTL Practicum (SCTL 507 and SCTL 509)
- Developed Courses
 - Graduate Research Seminar (CEE 500 winter quarter)
 - Transportation Policy
 - Transportation Logistics (CEE 587)
 - Freight Transportation (CEE 591)
 - External Supply Chain Transportation Risk (SCTL 505)
 - Logistics Systems Analysis (SCTL 501)
 - Freight and Passenger Planning (CET 511)
- Faculty Advisor, Environmental Management Certificate Keystone Project on Drayage Trucking Sponsored by the Port of Tacoma, Port of Seattle and Washington State Department of Transportation

SERVICE

Departmental service

- Member, Departmental Promotion and Tenure Committee, 09/2019 – present
- Member, Diversity Committee, Department of Civil and Environmental Engineering, 09/2018 – 2019
- Chair, Undergraduate Education Committee, Department of Civil and Environmental Engineering, 09/2017 – 09/2018
- Member of Valle Scholarship Review Committee, 2013 – 2017
- Member of the Department of Civil and Environmental Engineering Search Committee, Professor in Innovative Treatment Winter 2017
- Member, Faculty Affairs Committee, Fall 2013 – 2017
- Graduate Admissions Chair, Transportation Engineering, 2012 – 2017
- Member of the Search Committee, Assistant Research Professor in Transportation, Spring 2007, 2015
- Mentor Committee member for Dr. Edward McCormack, Spring 2012 – present
- Mentor Committee member for Dr. Jessica Lundquist, Spring 2012 – 2017
- Mentor Committee member for Dr. Jessica Kaminsky, Spring 2014 – present
- Mentor Committee member for Dr. Don Mackenzie, Spring 2014 – present
- Departmental Space Committee, Fall 2013 – 2014
- Organized division retreat, Spring 2012
- Member of the Department of Civil and Environmental Engineering NCKU visit delegation, Spring 2011
- Member of the Department of Civil and Environmental Engineering Curriculum Committee, Winter 2011

- Member of the Department of Civil and Environmental Engineering Search Committee, Professor in Transportation, Winter 2009, Winter 2013
- Member, Department of Civil and Environmental Engineering Emeritus Space Committee, 2008 – 2009
- Member, Department of Civil and Environmental Engineering Mentoring Committee, 2009
- Member, Department of Civil and Environmental Engineering College of Environment Committee, 2008

University service

- Member, Nutritional Science Program Faculty, 2018 – present
- Member, UWC² Advisory Council, 2018
- Member, Search Committee, College of the Built Environment Dean, 2017
- Member, Search Committee, CEE Department Chair, 2017
- Member, Search Committee, Industrial and Systems Engineering, 2015
- Executive Director, Global Trade, Transportation and Logistics Certificate Program, 2011
- Member, Interdisciplinary Committee for the Global Trade, Transportation and Logistics Certificate Program, 2009 – 2011
- Chair, Interdisciplinary Committee for the Global Trade, Transportation and Logistics Certificate Program, 2007 – 2009

Professional society and other service

- Member, Curbspace Management Allocation Sounding Board, SDOT, 12/19-present
- Handling Editor, Transportation Research Record, 09/2019 – present
- Member, Truck Size and Weight Limits Research Plan Committee of the TRB, 08/2017 – 03/2019
- Organizing Committee, 2017 International Urban Freight Conference, Long Beach CA
- Transportation Research Board Freight Group Chair, 04/2016 – 04/2019
- Guest Editor, Special Issue of European Journal of Transport and Infrastructure Research “Data-driven innovations in policy-oriented freight transport models and planning methods” with Jesus Gonzalez-Feliu and David Guerrero
- Member California Vehicle Inventory and Use Survey Peer Advisory Committee, 2015
- Expert review “The Role of Freight Transportation in Economic Competitiveness: 8th University Transportation Center Spotlight Conference”, 2015
- Member, Council of University Transportation Center Awards Committee, 2017
- Member, Oregon Modeling Steering Committee freight data and modeling subcommittee, April – October 2015
- Chair, Conference Organizing Committee, PacTrans Region 10 Conference, Seattle WA October 2014
- Approximate Tenure and Promotion Reviews completed: 10

- Member, Program Committee 2015 City Logistics and Sustainable Freight Workshop, Vilamoura, Portugal
- Member, Transportation Research Board Standing Committee on Freight Transportation Data (ABJ90), 2012 – 2015
- Chair, Transportation Research Board Standing Committee on Intermodal Freight Transportation (AT045), 2013 – 2016
- Editor, International Journal of Logistics and Transportation Research, 2013 – 2014
- Associate Editor, Transportation Research Record, 2019 – present
- Editorial Board, Transportation Research Part A, 2008 – 2018
- Editorial Board, Transportation Letters, 2008 – present
- Expert Reviewer, Sustainable Energy and Transport Strategies TRB Conference Report, July 2013
- Member of the Regional Stakeholders Group review team for the Vancouver/Portland region Commodity Flow Forecast, 2013
- Chair, Organizing Committee for Innovations in Urban Freight Workshop, 2012, Seattle WA
- Member, Program Committee, 2012 International Conference on Logistics and Maritime Systems (LOGMS), Bremen, Germany
- Member, City of Seattle Freight Advisory Board, Chair 2011 – 2013
- Speaker, Seattle Chamber of Commerce Transportation Committee, 2011
- Expert reviewer, Port of Seattle Emissions Inventory, Asia to North American Supply Chain, 2009
- Member, TRB Roadmap for Freight Data Workshop Organizing Committee, 2009
- Chair, Organizing Committee for Workshop on Data and Tools for Linking Goods Movement, Air Quality, and Transportation Infrastructure Decisions, 2009
- Member of the Washington State Transportation Commission Washington State Rail Capacity and System Needs Study, 2008
- Facilitator, Port of Seattle Clean Air Strategy Stakeholder meetings, 2008
- University of Washington Representative, Transportation Research Board, 2008 – 2013
- Member, Paper Review Chair, Transportation Research Board Standing Committee on Intermodal Freight Transportation (AT045), 2008 – 2012
- Member of the Puget Sound Regional Council Freight Advisory Panel, 2008 – 2011
- Moderator, Seattle Cleaner Air Faster Freight Conference, 2008
- Member, Organizing Committee, Transportation Research Board Conference on Freight Data and Air Quality, 2008
- Member, Transportation Research Board Standing Committee on Intermodal Freight Terminal Design and Operations (AT050), 2007 – 2008

- Member, Secretary, and Paper Review Chair, Best Paper Award Committee, Transportation Research Board Standing Committee on Freight Transportation Planning and Logistics (AT015), 2006 – 2012
- Session organization and moderation:
 - INFORMS Annual Meeting: 2006, 2007, 2008, 2010
 - National Urban Freight Conference: 2007, 2009
 - Transportation Research Board Annual Meeting: 2006 – 2017 inclusive
 - VREF 3rd International Conference on Urban Freight, 2018

Volunteer Professional Service

- Girl Scout Cookie Supply Chain Lecture, Troop 42071, 03/2018
- Seattle United Soccer Club Transportation Analysis, 03/2018 – 06/2018
- Vashon Fresh Logistics Analysis, 03/2017 – 06/2017
- Seattle Public Schools School Bus analysis, 03/2016 – 06/2016
- Jane Addams Middle School student drop-off analysis, 01/2016 – 03/2016
- Girl Scouts of Western Washington supply chain analysis, 09/2015
- UW Hospital Shuttles improvement analysis, 03/2014 – 06/2014
- Developing Safe Bike Routes to Schools, 06/2010 – 06/2011, assist Seattle Department of Transportation
- Seattle Iron and Metals, 06/2010 – 06/2011, develop traffic management plan

Consulting

- Expert Witness, Loading Bay Sufficiency, 3/2020
- Advisory Board, Starling Freeflight, 2/2018 – 10/2018
- SIREN MEOPAR, 06/2018
- Expert Consultant, GoogleX Wing Project, 08/2017
- Expert Consultant, California Freight Mobility Plan, 08/2017 – 08/2019
- Consultant on FHWA Situational Awareness Project, 09/2014 – 09/2016
- Expert Witness, E-commerce for Freight Forwarding, 01/2014 – 06/2015
- Expert Review, “China Green Freight Policy and Institutional Analysis Report” for Clean Air Asia, 2013
- Transportation System Modeling, Millennium Terminal EIS with ICF International, 2015
- Transportation System Modeling, Cherry Point Coal Terminal EIS with CH2M Hill, 2015
- Expert Witness. Lane vs. Port of Seattle. (08/2011 – 12/2011)
- A Guidebook for Developing Sub-National Commodity Flow Data. Contribute technical expertise on supply chain structure and data availability. Subcontract to Cambridge Systematics through National Cooperative Freight Research Program grant. (12/2009 – 12/2011)

- Locomotive Inventory for the California Air Resources Board. Contribute technical expertise on locomotive operations to improve the methodology for emissions inventories in California. (06/2006 – 06/2008)
- Technical Assistance to the South Coast Air Quality Management District. Provide Technical Expertise on Operational Activities Associated with Regional Goods Movement, Potential Mitigation Measures for Regional Goods Movement, and Policy Analyses (01/2007 – 01/2008)
- Southern California Association of Governments, Phase II, Port and Modal Elasticity Study. Contribute technical expertise on port operations in the Pacific Northwest. Assess the impact of container fees at West Coast Ports on the flow of containerized cargo nationwide (06/2006 – 06/2008)

International, national or governmental service

- Member, NSERC Site Visit Committee for Advanced methods for intelligent interurban freight transportation and logistics, Montreal, 2019
- Supervisory Committee, Heleen Buldeo Rai, Department of Business, Technology, and Operations, Vrije Universiteit Brussel, 2019
- Second Opponent, Petr Pokorny PhD, Department of Civil and Environmental Engineering, National Technical University of Norway, 02/2018
- Co-Chair, Topic Area Urban Goods Movement Special Interest Group, World Conference on Transportation Research Freight Transport and Logistics, 2017 – 2019
- Member, Organizing Committee, Nectar Cluster 3: Logistics and Freight. The Network on European Communications and Transport Activity Research, 2014 – present
- Member, Transportation Research Board Task force on Development of Freight Fluidity Performance Measures, 04/15/2016 – 04/14/2019
- Member, National Academy of Sciences Committee for Study of Freight Rail Transportation and Regulation, 2014 – 2015
- Member, Maryland State Highway Administration Statewide Travel Model Peer Review Committee, Fall 2013
- Member, Organizing committee, TRB Adapting Freight Models and Traditional Freight Data Programs for Performance Measurement Workshop, 2012
- Member, oversight panel, NCFRP 25(01) – Estimating Freight Generation Using Commodity Flow Survey Microdata, 2012
- Member, oversight panel, NCFRP 36(04) - Carbon Footprint of Supply Chains, 2011
- Member, expert review panel, NCFRP 11 - Freight Demand Factors,
- Member, SHRP Project C15 Oversight Committee “Integrated Freight Considerations into Collaborative Decision Making for Additions to Highway Capacity“, 2010
- NSF Review Panelist
 - 02/200
 - Civil and Mechanical Systems, 12/2006
 - Freight Transportation, 02/2010

- Port Operations, 01/2015
- Transportation Engineering, 03/2015
- Member, National Cooperative Freight Research Program oversight panel, Project 23, Economic and Transportation Drivers for Siting Freight Intermodal and Warehouse Distribution Facilities, 2009 – 2011

All other service

- Presenter, UW Women in Science and Engineering Conference, 02/2019
- Presenter, Advance Mentoring for Leadership Series, 05/2017
- Presenter, Roosevelt High School Science in Society Series, Delivering the Goods: Sustainable Urban Freight Transportation, 01/2017
- Keynote Speaker, UW Women in Science and Engineering Conference, Two Decades in Stride, 02/2011
- Mentor, Center for Workforce Development Graduate Mentoring Program, Activities University of Washington, 2007
- Contributor, “Traveling Salesman Racetrack” and “Construction Sandbox” University of Washington Engineering Open House, 04/2007
- Contributor, “Lego Port Simulation and Global Trade” University of Washington Engineering Open House, 04/2006
- Panelist, “Engineering in a Real World: Making Life Better” 16th Annual Women in Science and Engineering Conference, University of Washington, 02/2007
- Holy Names Academy Career Day Engineering Panel, 03/2006