

## Amy Miyoung Kim, Ph.D., P.Eng.

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**Research Keywords:** Multimodal networks; long-distance transportation; resilience; transport infrastructure; air transportation; airport operations

**Research Methods:** Systems analysis; resource allocation & optimization; supply-and-demand models; networks; econometrics

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### Education

- Doctor of Philosophy**, Civil and Environmental Engineering 2011  
University of California, Berkeley  
Thesis: Collaborative Resource Allocation Strategies for Air Traffic Flow Management  
<http://escholarship.org/uc/item/4f07r35r>  
Minors in stochastic processes (operations research & statistics), econometrics
- Master of Science**, Civil and Environmental Engineering 2002  
University of California, Berkeley  
Thesis: Microsimulation Modeling for Freeway High Occupancy Vehicle Lanes
- Bachelor of Applied Science**, Civil Engineering 2001  
University of Waterloo (Junior year abroad at Leeds University)
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### Academic Appointments

- Associate Professor**, Civil & Environmental Engineering, University of Alberta 2017–present
- Assistant Professor**, Civil & Environmental Engineering, University of Alberta 2011–2017  
(On leave December 2013 – June 2014)
- Post-Doctoral Researcher**, National Center of Excellence for Aviation Operations Research, UC Berkeley 2011
- Graduate Student Researcher**, National Center of Excellence for Aviation Operations Research, UC Berkeley 2007–2011
- Graduate Student Researcher**, Partners for Advanced Transit and Highways (PATH), UC Berkeley 2006–2007
- Graduate Student Researcher**, Institute of Transportation Studies, UC Berkeley 2001–2002
- Undergraduate Research Assistant**, Civil Engineering, University of Waterloo 1998–2001
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### Other Employment

- Traffic Engineering Analyst**, Delcan Corporation, Vancouver BC 2005–2006
- Associate Transportation Engineer/Planner**, Dowling Associates, Inc., Oakland CA 2002–2005
- Co-operative Work Terms** (Municipality of Hamilton-Wentworth, Ministry of Transportation Ontario, MMM Group, Giffels Associates, Urban Systems Ltd.) 1997–2000
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## Publications

Names of graduate students & PDFs are underlined; faculty authors and other collaborators are listed in order of contribution to supervision.

[Google Scholar](#) [ORCID](#) [ResearchGate](#)

## Journal Papers – Published or Accepted

### Multimodal Long Distance Transportation: Air/ground integration; networks

- J1. Megan S. Ryerson, **Amy M. Kim** (2018). A Drive for Better Air Service: How air service imbalances across neighboring regions integrate air and highway demands. *Transportation Research Part A: Policy and Practice*, Vol. 114, Part A, 237-255.
- J2. **Amy M. Kim**, Megan S. Ryerson (2018). A long drive: Interregional airport passenger "leakage" in the U.S. *Tourism Management*, Vol. 65, 237-244.
- J3. Matthew Woo, Tin Ying (Kathy) Hui, Kai Ernn Gan, Kexin Ren, **Amy M. Kim** (2017). Reconstructing an Emergency Evacuation by Ground and Air: the Fort McMurray Wildfire. *Transportation Research Record*, Vol. 2604, 63-70.
- J4. Qian Fu, **Amy M. Kim** (2016). Supply-and-demand models for exploring relationships between smaller airports and neighboring hub airports in the U.S. *Journal of Air Transport Management*, Vol. 52, 67-79.

### Sustainable Northern Transportation Systems

- J5. Yunzhuang Zheng, **Amy M. Kim** (2017). Rethinking Business-As-Usual: Mackenzie River Freight Transport in the Context of Climate Change Impacts in Northern Canada. *Transportation Research Part D: Transport and Environment*, Vol. 53, 276-289.
- J6. Qianqian Du, **Amy M. Kim** (2017). Modeling multimodal freight transportation scenarios in Northern Canada under climate change impacts. *Research in Transportation Business Management* (World Conference on Transport Research 2016 special issue), Vol. 23, 86-96.

### Automated Traffic Enforcement: Program design (resource allocation); safety

- J7. Yang Li, **Amy M. Kim**, Karim El-Basyouny (2019). Interactive allocation of mobile photo enforcement resources with multiple program objectives. *Sustainable Cities and Society*, Vol. 48.
- J8. Yang Li, Jiaohong Xie, **Amy M. Kim**, Karim El-Basyouny (2019). Investigating tradeoffs between optimal mobile photo enforcement program plans. *Journal of Multi-Criteria Decision Analysis*, Vol. 26(1-2), 51-61.
- J9. Ran Li, Karim El-Basyouny, **Amy M. Kim**, Suliman Gargoum (2017). Relationship between road safety and mobile photo enforcement performance indicators: A case study of the city of Edmonton. *Journal of Transportation Safety and Security*, Vol. 9(2), 195-215.
- J10. Suliman Gargoum, Karim El-Basyouny, **Amy M. Kim** (2016). Towards Setting Credible Speed Limits: Identifying Factors that Affect Driver Compliance on Urban Roads. *Accident Analysis and Prevention*, Vol. 95, Part A, 138-148.
- J11. **Amy M. Kim**, Xiaobin Wang, Karim El-Basyouny, Qian Fu (2016). Operating a Mobile Photo Radar Enforcement Program: A Framework for Site Selection, Resource Allocation, Scheduling, and Evaluation. *Case Studies in Transport Policy*, Vol. 4(3), 218-229.

- J12. Yang Li, **Amy M. Kim**, Karim El-Basyouny, Ran Li (2016). Using GIS to interpret automated speed enforcement guidelines and guide deployment decisions in mobile photo enforcement programs. *Transportation Research Part A: Policy and Practice*, Vol. 86, 141-158.
- J13. Ran Li, Karim El-Basyouny, **Amy Kim** (2015). A Before-and-After Empirical Bayes Evaluation of Automated Mobile Speed Enforcement on Urban Arterial Roads. *Transportation Research Record*, Vol. 2516, 44-52.

### **Air Traffic Operations: Air traffic flow management; airport operations analysis**

- J14. Kexin Ren, **Amy M. Kim**, Kenneth Kuhn (2018). Explorations of the Evolution of Airport Ground Delay Programs. *Transportation Research Record*, Vol. 2672(23), 71-81.
- J15. **Amy M. Kim** (2016). Impacts of changing flight demands & throughput performance on airport delays through the Great Recession. *Transportation Research Part A: Policy and Practice*, Vol. 86, 19-34.
- J16. **Amy Kim**, Rokib S.A., Yi Liu (2015). Refinements to a Procedure for Estimating Airfield Capacity. *Transportation Research Record*, Vol. 2501, 18-24.
- J17. **Amy Kim**, Mark Hansen (2015). Some insights into a sequential resource allocation mechanism for en route air traffic. *Transportation Research Part B: Methodological*, Vol. 79, 1-15.
- J18. **Amy Kim**, Mark Hansen (2013). Deconstructing Delay: A Non-Parametric Approach to Analyzing Delay Changes in Single Server Queuing Systems. *Transportation Research Part B: Methodological*, Vol. 58, 119-133.
- J19. **Amy Kim**, Mark Hansen (2013). A Framework for the Assessment of Collaborative En Route Resource Allocation Strategies. *Transportation Research Part C: Emerging Technologies*, Vol. 33, 324-339.
- J20. **Amy Kim**, Mark Hansen (2010). Validation of Runway Capacity Models. *Transportation Research Record*, Vol. 2177, 69-77.

### **Urban Cycling**

- J21. Laura Cabral, **Amy M. Kim**, Manish Shirgaokar (2019). Low-Stress Bicycling Connectivity: Assessment of the Network Build-Out in Edmonton, Canada. *Case Studies in Transport Policy*, Vol. 7(2), 230-238.
- J22. Laura Cabral, **Amy M. Kim**, John Parkins (2018). Bicycle ridership and intention in a northern, low-cycling city. *Travel Behaviour and Society*, Vol. 13, 165-173.

### **Other Topics**

- J23. Md Hadiuzzaman; D M Ghius Malik; Saurav Barua; Tony Z. Qiu; **Amy M. Kim**. Modeling Passengers' Perceptions of Intercity Train Service Quality for Regular and Special Days. Accepted for publication in *Public Transport*, August 2019.
- J24. Danyang Sun, Karim El-Basyouny, Shewkar Ibrahim, **Amy M. Kim** (2018). Are school zones effective in reducing speeds and improving safety? *Canadian Journal of Civil Engineering*, Vol. 45(12), 1084-1092.
- J25. Suliman Gargoum, **Amy M. Kim**, Hui Zhang, Tony Qiu (2017). Towards Establishing Effective Commercial Driver Training Standards: Analysis of Industry opinions from Alberta. *Canadian Journal of Civil Engineering*, Vol. 44(11), 899-910.
- J26. Suliman Gargoum, Yang Li, Karim El-Basyouny, **Amy M. Kim**. (2017). Factors Impacting the Classification of Road Segments into High/Low Speed-Collision Regimes. *Transportation Research Record*, Vol. 2659, 98-105.

- J27. Xu Han, Pengfei Li, Rajib Sikder, Tony Z. Qiu, **Amy Kim** (2014). Development and Evaluation of an Adaptive Transit Signal Priority Control with Updated Transit Delay Model. *Transportation Research Record*, Vol. 2438, 45-54.

### **Journal Papers Submitted and/or Under Revision**

- J28. Laura Cabral, **Amy M. Kim**. An Empirical Reappraisal of the Level of Traffic Stress Framework.
- J29. Sabrena Jahan Ohi, **Amy M. Kim**. Count Models to Represent the Impacts of Weather and Infrastructure on Flight Disruptions.
- J30. Laura Cabral, **Amy M. Kim**. An Empirical Reappraisal of the Four Types of Cyclists.
- J31. Kasturi Mahajan, **Amy M. Kim**. Vulnerability Assessment and Capacity Scan of Alberta's Provincial Highway Network.
- J32. Yang Li, **Amy M. Kim**. Allocating and scheduling resources for a mobile photo enforcement program.
- J33. Huanan Li, **Amy M. Kim**. Incorporating the impacts of climate change in transportation infrastructure decision models.

### **Conference Papers, Refereed (presenter\*)**

- C1. Sabrena Jahan Ohi\*, **Amy M. Kim**. Count Models to Represent the Impacts of Weather and Infrastructure on Flight Disruptions (accepted for podium presentation). Transportation Research Board Annual Meeting, January 2020, Washington DC.
- C2. Laura Cabral\*, **Amy M. Kim**. An Empirical Reappraisal of the Four Types of Cyclists (accepted poster). Transportation Research Board Annual Meeting, January 2020, Washington DC.
- C3. Laura Cabral\*, **Amy M. Kim**. An Empirical Reappraisal of the Level of Traffic Stress Framework (accepted for podium presentation). Transportation Research Board Annual Meeting, January 2020, Washington DC.
- C4. Laura Cabral\*, **Amy M. Kim**, Manish Shirgaokar. Low-Stress Bicycling Connectivity: Assessment of the Network Build-Out in Edmonton, Canada (poster). Transportation Research Board Annual Meeting, January 2019, Washington DC.
- C5. Yang (Naomi) Li\*, **Amy M. Kim**, Karim El-Basyouny. Linking Program Goals to Deployment Decisions: Creating a Transparent and Efficient Mobile Photo Enforcement Program (poster). Transportation Research Board Annual Meeting, January 2019, Washington DC.
- C6. Kasturi Mahajan, Sabrena Jahan Ohi\*, **Amy M. Kim**. Vulnerability Assessment and Capacity Scan of Alberta's Provincial Highway Network (poster). Transportation Research Board Annual Meeting, January 2019, Washington DC.
- C7. Tin Ying (Kathy) Hui, **Amy M. Kim\***. A review and case study of anonymous cell phone data for intercity travel applications. *Transportation Research Board Annual Meeting*, January 2018, Washington DC.
- C8. **Amy M. Kim\***, Kexin Ren, Kenneth Kuhn. Explorations of the Evolution of Airport Ground Delay Programs. Transportation Research Board Annual Meeting, January 2018, Washington DC.
- C9. Yunzhuang Zheng, **Amy M. Kim\***. Rethinking Business-As-Usual: Mackenzie River Freight Transport in the Context of Climate Change Impacts in Northern Canada. Transportation Research Board Annual Meeting, January 2017, Washington DC.

- C10. Yang Li\*, **Amy M. Kim**, Karim El-Basyouny. Scheduling resources in a mobile photo enforcement program. *4<sup>th</sup> International Conference on Transportation Information and Safety (ICTIS 2017)*, August 2017, Banff AB.
- C11. Tin Ying (Kathy) Hui\*, Chenhao Wang, **Amy M. Kim**, Tony Z. Qiu. Investigating the Use of Anonymous Cellular Phone Data to Determine Intercity Travel Volumes and Modes. *Transportation Research Board Annual Meeting*, January 2017, Washington, DC.
- C12. Yunzhuang Zheng, **Amy M. Kim\***, Qianqian Du. Assessing Current and Future Mackenzie River Freight Volumes in the Context of Climate Change Impacts. *Canadian Society for Civil Engineering Annual Conference*, June 2016, London ON.
- C13. Qian Fu, **Amy Kim\***. A Feedback Model for Assessing Out-of-Region Airport Leakage. *Canadian Transportation Research Forum*, May 2015, Montreal.
- C14. Ran Li\*, Karim El-Basyouny, **Amy Kim**. A City-Wide Safety Analysis of Mobile Speed Enforcement. *Canadian Assoc. of Road Safety Professionals Conference*, May 2015, Ottawa.
- C15. Rokib S.A., Md. Ahsanul Karim\*, Tony Qiu, **Amy Kim**. Origin-Destination Trip Estimation from Anonymous Cell Phone and Foursquare Data. *Transportation Research Board Annual Meeting*, January 2015, Washington, DC.
- C16. Xiaobin Wang, **Amy Kim\***, Karim El-Basyouny. Development of a Program Framework for Mobile Photo Radar Enforcement. *Transportation Research Board Annual Meeting*, January 2015, Washington, DC.
- C17. Ran Li, Karim El-Basyouny\*, **Amy Kim**. A Before-and-After Empirical Bayes Evaluation of Automated Mobile Speed Enforcement on Urban Arterial Roads. *Conference proceedings, Transportation Research Board Annual Meeting*, January 2015, Washington, DC.
- C18. Xu Han, Pengfei Li, Tony Z. Qiu, **Amy Kim\***. 2013. Transit Signal Priority Impact Analysis and Evaluation in the City of Edmonton. *2013 Transportation Association of Canada Annual Conference and Exhibition*, September 2013, Winnipeg.
- C19. **Amy Kim\***. The Effects of User Competition in Air Traffic Management Initiatives. *5th International Conference on Research in Air Transportation*, May 2012, Berkeley. (Best Paper, Socioeconomic & Institutional Challenges track).
- C20. **Amy Kim\*** and Mark Hansen. Collaborative Rerouting in the Airspace Flow Program: A Framework for User-cost Based Performance Assessment. *4th International Conference on Research in Air Transportation*, June 2010, Budapest.
- C21. **Amy Kim\***, Mark Hansen. Validation of Runway Capacity Models. *Air Traffic Management Seminar*, July 2009, Napa. **Amy Kim\***, Mark Hansen. Validation of Runway Capacity Models (poster). *Transportation Research Board Annual Meeting*, January 2009, Washington, DC.
- C22. **Amy Kim\***, Mark Hansen. Deconstructing Delay: Demand and Capacity at the New York Airports. *3rd International Conference on Research in Air Transportation*, June 2008, Fairfax, VA.
- C23. **Amy Kim\***, Mark Hansen. Deconstructing Delay: Case Study of Demand and Capacity at the New York Airports. *Transportation Research Board Annual Meeting*, Washington, DC, January 2008.
- C24. **Amy Kim\***, Yonnel Gardes, Adolf D. May. Application of Paramics Model in High Occupancy Vehicle Lane Operations. *ITS World Congress*, Oct. 2002, Chicago.
- C25. **Amy Kim\***, Mark Baker and Laurence Rilett. Performance Measure Definition Using Microsimulation Techniques. *Canadian ITE 2006 Conference*, May 2006, Banff.

### **Presentations, Refereed (presenter \*)**

Includes all presentations given by [directly supervised students](#) on [research projects](#) I led or co-led.

- P1. [Laura Cabral\\*](#), **Amy M. Kim**. Realigning Infrastructure Categorizations Based on User Perception. *Bike 2019*, May 2019, Edmonton.
- P2. [Kasturi Mahajan\\*](#), **Amy M. Kim**. Vulnerability Assessment of Alberta's Highway Network under Extreme Events. *Canadian Institute for Transportation Engineers Annual Conference*, June 2018, Edmonton.
- P3. [Laura Cabral\\*](#), **Amy M. Kim**. The Edmonton Downtown Bike Network: Initial Usage Insights. *Canadian Institute for Transportation Engineers Annual Conference*, June 2018, Edmonton.
- P4. **Amy M. Kim\***, [Yang Li](#), Karim El-Basyouny. A Resource Scheduling and Decision Support Model for Mobile Photo Enforcement. *Road Safety on Five Continents (RS5C)*, May 2018, Jeju, South Korea.
- P5. [Qianqian Du](#), **Amy M. Kim\***, [Yunzhuang Zheng](#). Understanding multimodal freight transportation scenarios in Northern Canada under climate variability. *World Conference on Transportation Research*, July 2016, Shanghai.
- P6. [Yang Li\\*](#), **Amy M. Kim**, Karim El-Basyouny. Mobile Photo Enforcement: Visualizing Program Guidelines and Deployment Decisions. *8th International Conference on Urban Traffic Safety*, April 2016, Edmonton, AB.
- P7. **Amy Kim\***. The Potential Impacts of a Northern Shipping Route into Canada via the Arctic. *International Conference for Transportation Innovation*, Nov. 2014, Edmonton.
- P8. **Amy Kim\***. Refinements to a Procedure for Estimating Airfield Capacity. *INFORMS Annual Meeting*, November 2014, San Francisco.
- P9. [Rajib Sikder](#) and **Amy Kim\***. Reliability considerations in bus route service planning. *Transportation Association of Canada Annual Conference*, September 2014, Montreal.
- P10. [Xu Han\\*](#), [Pengfei Li](#), [Rajib Sikder](#), Tony Z. Qiu, **Amy Kim**. Development and Evaluation of an Adaptive Transit Signal Priority Control with Updated Transit Delay Model. *Transportation Research Board Annual Meeting*, January 2014, Washington, DC.
- P11. **Amy Kim\***. ADS-B and NAV CANADA's Priority Handling over the Hudson Bay. *Transportation Research Board Annual Meeting*, January 2012, Washington, DC.
- P12. **Amy Kim\***, Mark Hansen. The Effects of Competition on Air Traffic Management Initiatives. *1st Annual INFORMS TSL Workshop on Congestion Management of Transportation Systems on the Ground and in the Air*, June 2011, Asilomar, CA.
- P13. **Amy Kim\***, Mark Hansen. Comparison of Strategies for Collaborative Rerouting in the Airspace Flow Program. *INFORMS Annual Meeting*, October 2009, San Diego.
- P14. **Amy Kim\***, Mark Hansen. Deconstructing Delay: Demand and Capacity at the New York Airports. *INFORMS Annual Meeting*, October 2007, Seattle.
- P15. **Amy Kim\*** and Alexander Skabardonis. Freeway Weaving Analysis (poster). 13<sup>th</sup> *University of California Transportation Center Student Conference*, April 2007, LA.

### **Technical Reports (selected)**

- T1. [Laura Cabral](#), **Amy M. Kim**. Cycling patterns in the City of Edmonton and developing a continuous performance monitoring framework. Interim Project Report, April 2019.
- T2. [Sabrena Jahan Ohi](#), **Amy M. Kim**. Weather and Operations at Airports in Northern Canada, Identifying causes of recurring delays at northern airports. Final Project Report for Transport Canada, November 2018.

- T3. Kasturi Mahajan, **Amy M. Kim**. Vulnerability Assessment and Capacity Scan of Alberta's Highway Network, Alberta Transportation. Final Project Report, June 2018.
- T4. Kathy Hui, **Amy M. Kim**, Matthew Woo, Kexin Ren. Reconstruction of the multimodal Fort McMurray wildfire evacuation using multiple data sources. Alberta Transportation. Final Project Report, March 2017.
- T5. Matthew Woo, **Amy M. Kim**, Kathy Hui, Naomi Li, Kexin Ren. Identifying Congestion Management Strategies for Urban Highways in Alberta. Alberta Transportation. Final Project Report, February 2017.
- T6. Yunzhuang Zheng, **Amy M. Kim**, Aalyssa Atley, Qianqian Du. The Potential Impacts of a Northern Shipping Route into Canada via the Arctic. Northern Transportation Adaptation Initiative (Transport Canada). Final Project Report, July 2016.
- T7. Naomi Li, **Amy M. Kim**, Karim El-Basyouny. A multi-objective resource allocation model for a mobile photo enforcement (MPE) program. Office of Traffic Safety, City of Edmonton. Project Report, April 2016.
- T8. Naomi Li, **Amy M. Kim**, Karim El-Basyouny, Ran Li. Using GIS to Visualize Automated Speed Enforcement Guidelines. Office of Traffic Safety, City of Edmonton. Project Report, April 2016.
- T9. Ran Li, Karim El-Basyouny, **Amy M. Kim**, Suliman Gargoum. Relationship between road safety and mobile photo enforcement performance. Office of Traffic Safety, City of Edmonton. Project Report, April 2016.
- T10. Hui Zhang, Xu Wang, Qian Fu, Tony Qiu, **Amy Kim**. Global Policy and Practice Review for Commercial Driver Certification and Training. Alberta Motor Transport Association. Final Project Report, November 2015.
- T11. Rajib Sikder, Gang Liu, Yuwei Bie, Cheng Lan, Tony Z. Qiu, **Amy Kim**. Phase II: Performance Evaluation and Modelling of Transit Signal Priority (TSP) System in the City of Edmonton. Edmonton Transit System. Research Report, December 2014.
- T12. Aalyssa Atley, Md Ahsanul Karim, **Amy Kim**, Tony Z. Qiu. Transportation System Management: Review and Recommendations. Transportation Planning, City of Edmonton. Research Report, November 2014.
- T13. Ran Li, Karim El-Basyouny, **Amy Kim**. Photo Enforcement Analysis Report. Office of Traffic Safety, City of Edmonton. Research Report, June 2014.
- T14. Xiaobin Wang, **Amy Kim**, Karim El-Basyouny. Initialization Plan for the Deployment of Mobile Photo Radar Enforcement in the City of Edmonton. Office of Traffic Safety, City of Edmonton. Research Report, April 2014.
- T15. Xu Han, Pengfei Li, Rajib Sikder, Tony Z. Qiu, **Amy Kim**. Phase 1: Performance Evaluation and Modelling of Transit Signal Priority (TSP) System in the City of Edmonton. Edmonton Transit System. Research Report, December 2013.
- T16. **Amy Kim**. Fixed track systems for airport ground access: A literature review. Edmonton Airports. Research Report, January 2013.
- T17. Leigh Fisher, Landrum & Brown, CDM Smith, George Mason University, **University of California Berkeley**, Presentation & Design, Inc. (2012). ACRP Report 79: Evaluating Airfield Capacity. Airport Cooperative Research Program, Transportation Research Board.
- T18. Alexander Skabardonis and **Amy Kim**. Weaving Analysis, Evaluation, and Refinement. California PATH Research Report UCB-ITS-PRR-2010-19, April 2010.
- T19. Yonnel Gardes, **Amy Kim** and Adolf D. May. [Bay Area Simulation and Ramp Metering Study –Year 3 Report](#). California PATH (UCB-ITS-PRR-2003-9), March 2003.
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## Other Contributions

### Invited Seminars and Keynote Presentations

1. Considering Uncertainty from Climate Change Impacts in Transportation Infrastructure Investment Decision Making. Presentation at *Northern Transportation Adaptation Initiative Network Meeting*, sponsored by Transport Canada, Montreal, Nov. 5-6 2019.
2. Transportation Service Provision and Infrastructure Investment Decisions in Remote Areas: Adapting to Climate Change. Presentation at *Canada-China Joint Research Program meeting*, sponsored by Transport Canada, Edmonton, June 18-19 2019.
3. Edmonton Cycling Infrastructure Research Update. Presentation at *NSERC Workshop: Cycling Research Collaboration with Industry in Canadian Context*, Calgary, Feb. 7 2019.
4. Using New Data Sources to Understand Use of the City of Edmonton's Downtown Bike Grid. Keynote presentation at *2018 International Conference on Urban Traffic Safety*, Edmonton, July 10 2018.
5. Quantifying Aviation Operational Performance in Northern Canada. Presentation at *Northern Air Transport Association Annual Meeting*, Whitehorse, April 25 2018.
6. Rethinking northern transportation infrastructure under climate change. Presentation at *Centre for the North workshop: The Northern and Remote Infrastructure Environment: Evolving Construction, Partnership, and Financing Approaches*, Calgary, Nov. 23 2017.
7. The Transportation Sharing Economy in Canada: State of the Research & Practice in Carsharing, Bikesharing, Ridesharing, and Ride Sourcing. Presentation at Korea Research Institute for Human Settlements (KRIHS) workshop: *Shared-use Mobility to Improve Sustainability in Metropolitan Areas*, Sejong, Korea, Oct. 19 2017.
8. Air Transport in Northern Canada: Modeling the impacts of infrastructure and weather on operational performance. Presentation at *Northern Air Transport Association Annual General Meeting*, Yellowknife, April 25 2017.
9. Mackenzie River Freight Transport in the Context of Climate Change Impacts. Presentation at *UAlberta North Conversation Series*, Edmonton, Feb. 9 2017.
10. Reconstructing an Emergency Evacuation by Ground and Air: The Fort McMurray Wildfire. Presentation at *Alberta Transportation TRANS Talks*, Oct. 11 2016.
11. The impacts of changing flight demand on throughput performance and airport delays. Presentation at *Global Workshop on Aviation System Performance*, Tianjin, July 21-23 2016.
12. Multimodal Transportation Systems Analysis and Planning. Presentation at *Workshop on Smart Vehicles and Transportation*, Tsinghua University, Beijing, July 20 2016.
13. Mobile Photo Enforcement: Visualizing Program Guidelines and Deployment Decisions. Presentation at *Urban Traffic Safety workshop*, Wuhan University of Technology, Wuhan, July 18 2016.
14. Mobile Photo Enforcement: Visualizing Program Guidelines and Deployment Decisions. Seminar presentation at University of Waterloo, Waterloo, May 30 2016.
15. The Potential Impacts of a Northern Shipping Route into Canada via the Arctic, presentation at *Canadian Institute of Transportation Engineers Northern Alberta Section luncheon*, Edmonton, Feb. 4 2015.
16. Potential Impacts of a Northern Shipping Route into Canada. Presentation at *International Conference for Transportation Innovation*, Edmonton, Oct. 22 2014.
17. ADS-B and NAV CANADA's Priority Handling over the Hudson Bay. Presentation at *91st Annual Meeting of the Transportation Research Board*, Washington, DC, Jan. 2012.



18. Collaborative Resource Allocation Strategies for En Route Air Traffic Flow Management. Seminar at Metron Aviation, Herndon, VA, Aug. 2011.

### Invited Panels

1. Expert Roundtable on Connectivity for Small Populations in Remote Communities. International Transport Forum/OECD, Ottawa, September 23-24 2019.
  2. How can cycling be integrated into Edmonton's transportation system? *Bike 2019*, Alberta Centre for Active Living, University of Alberta, Edmonton, May 7-8 2019.
  3. Metrics and Performance Analysis. *NEXTOR 2 Symposium* sponsored by the Federal Aviation Administration, University of Maryland, College Park, Sept. 29-30 2016.
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### Magazine Articles & Press

1. Edmonton Journal, "Elise Stolte: Attempt to crack open Edmonton's photo radar file needs a push," August 7 2019.
  2. U of A Engineering, "Transportation engineering team has solutions for local authorities facing photo-radar conundrum," February 27 2019.
  3. The Star Edmonton, "U of A researcher shows increased connectivity from downtown bike network," July 21 2018.
  4. U of A Engineer Magazine, "Lords of the Rings," Spring 2017.
  5. Kathy Hui, Matthew Woo, **Amy M. Kim**. "The Fort McMurray Wildfire: Reconstructing a Multimodal Evacuation Process," CITE Transportation Talk! Fall 2016, Vol. 38, No. 3.
  6. Edmonton Journal, "University researcher pitches high-tech solution for Edmonton's bogged-down buses," November 9 2015.
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