

Curriculum Vitae

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Basic Information

Name: Erik Anders Jenelius

Date of Birth: 23 June 1980

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Workplace Address:

Division of Transport Planning

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Current Employment

Professor of Public Transport Systems, Head of Division

Division of Transport Planning, Department of Civil and Architectural Engineering, KTH Royal Institute of Technology.

Start date: 1 June 2023 (Professor), 16 October 2019 (Head of Division)

Previous Employments

2018–2023: Associate Professor at the Division of Transport Planning, Department of Civil and Architectural Engineering, KTH Royal Institute of Technology.

2015–2018: Assistant Professor at the Division of Traffic and Logistics, Department of Transport Science / Division of Transport Planning Economics and Engineering, Department of Civil and Architectural Engineering, KTH Royal Institute of Technology.

2011–2015: Researcher (Swedish employment title: forskare) at the Division of Traffic and Logistics / Division of Transport Planning, Economics and Engineering, Department of Transport Science, KTH Royal Institute of Technology.

2006–2010: Ph.D. Candidate at the Division of Transport and Location Analysis, KTH Royal Institute of Technology.

2005–2006: Project Assistant at the Division of Transport Planning, Traffic Administration Office, City of Stockholm. I was involved in the evaluation of the Stockholm congestion charges trial.

2004–2005: Research Engineer at the Division of Transport and Location Analysis, KTH Royal Institute of Technology.

Education Qualification and Evaluations

Docent in Transport Science, KTH Royal Institute of Technology, November 2017.

Doctor of Philosophy (Ph.D.) in Infrastructure specialized in Transport and Location Analysis, KTH Royal Institute of Technology, 2011.

Licentiate of Engineering (Lic.Eng.) in Infrastructure specialized in Transport and Location Analysis, KTH Royal Institute of Technology, 2007.

Scientific Qualifications

h-index: 38. Number of citations: 7103 (Google Scholar)

List of International Peer-reviewed Journal Publications

1. Berg Wincent, B., Jenelius, E. and Burghout, W. (2024) [Shared e-scooters: a last-minute mode?](#) *Travel Behaviour and Society* 37, 100864.
2. Hatzenbühler, J., Jenelius, E., Gidófalvi, G. and Cats, O. (2024) [Multi-purpose pickup and delivery problem for combined passenger and freight transport.](#) *Transportation*, early access.
3. Leffler, D., Burghout, W., Cats, O. and Jenelius, E. (2024) [An adaptive route choice model for integrated fixed and flexible transit systems.](#) *Transportmetrica B: Transport Dynamics* 12(1), 2303047.
4. Zhang, Q., Ma, Z., Zhang, P., Ling, Y. and Jenelius, E. (2024) [Real-time bus arrival delays analysis using seemingly unrelated regression model.](#) *Transportation*, early access.
5. Badia, H. and Jenelius, E. (2023) [Shared e-scooter micromobility: Review of use patterns, perceptions and environmental impacts.](#) *Transport Reviews* 43(5), 811-837.
6. Berg Wincent, B., Jenelius, E. and Burghout, W. (2023) [Access distance to e-scooters: Analysis of app use and trip data in Stockholm.](#) *Journal of Cycling and Micromobility Research* 1, 100004.
7. Cebecauer, M., Jenelius, E., Gundlegård, D. and Burghout, W. (2023) [Revealing representative day-types in transport networks using traffic data clustering.](#) *Journal of Intelligent Transportation Systems*, early access.
8. Hatzenbühler, J., Jenelius, E., Gidófalvi, G. and Cats, O. (2023) [Modular vehicle routing for combined passenger and freight transport.](#) *Transportation Research Part A: Policy and Practice* 173, 103688.
9. Kolkowski, L., Cats, O., Dixit, M., Verma, T., Jenelius, E., Cebecauer, M. and Jarlebring Rubensson, I. (2023) [Measuring activity-based social segregation using public transport smart card data.](#) *Journal of Transport Geography* 110, 130642.
10. Lin, J. Y.-J., Jenelius, E., Cebecauer, M., Rubensson, I. and Chen, C. (2023) [The equity of public transport crowding exposure.](#) *Journal of Transport Geography* 110, 103631.
11. Pefitsi, S., Jenelius, E. and Cats, O. (2023) [Simulation-based evaluation of skip-stop policy in urban rail transit systems based on passenger cost.](#) *Journal of Public Transportation* 25, 100064.
12. Sun, Y., Jenelius, E., Burghout, W. and Xie, B. (2023) [Evaluation of motorway lane control strategies for mixed flow of autonomous and human-driven vehicles.](#) *Journal of Transportation Engineering, Part A: Systems* 149(11), 04023109.
13. Zhang, Q., Ma, Z., Zhang, P. and Jenelius, E. (2023). [Mobility Knowledge Graph: Review and its application in public transport.](#) *Transportation*, early access.
14. Zhang, Q., Ma, Z., Zhang, P., Jenelius, E., Ma, X. and Wen, Y. (2023) [User-station attention inference using smart card data: A knowledge graph assisted matrix decomposition model.](#) *Applied Intelligence* 53, 21944-21960.
15. Almlöf, E., Nybacka, M., Pernestål, A. and Jenelius, E. (2022) [Will leisure trips be more affected than work trips by autonomous technology? Modelling self-driving public transport and cars in Stockholm, Sweden.](#) *Transportation Research Part A: Policy and Practice* 165, 1-19.

16. Almlöf, E., Zhao, X., Pernestål, A., Jenelius, E. and Nybacka, M. (2022) [Frameworks for assessing societal impacts of automated driving technology](#). *Transportation Planning and Technology* 45(7), 545-572.
17. Chen, H., Hatzenbühler, J. and Jenelius, E. (2022) [Pick-up and delivery problem for sequentially consolidated urban transportation with mixed and multi-purpose vehicle fleet](#). *Journal of Advanced Transportation* 2022, article id 2920532, 18 pages.
18. Hatzenbühler, J., Cats, O. and Jenelius, E. (2022) [Network design for line-based autonomous bus services](#). *Transportation* 49(2), 467-502.
19. Jenelius, E. (2022) [Traveller recurrence and inter- versus intratraveller speed variability: Analysis with Bluetooth data](#). *Journal of Advanced Transportation* 2022, article id 6650310, 10 pages.
20. Pefitsi, S., Jenelius, E. and Cats, O. (2022) [Modelling the effect of real-time crowding information \(RTCI\) on passenger distribution in trains](#). *Transportation Research Part A: Policy and Practice* 166, 354-368.
21. Poinignon, F., Chen, L., Jiang, S., Gao, K., Badia, H. and Jenelius, E. (2022) [Autonomous vehicle fleets for public transport: scenarios and comparisons](#). *Green Energy and Intelligent Transportation* 1(3), 100019.
22. Zhang, W., Jenelius, E. and Badia, H. (2022) [Efficiency of semi-autonomous platooning bus services in high-demand transit corridors](#). *IEEE Open Journal of Intelligent Transportation Systems* 3, 435-448.
23. Almlöf, E., Rubensson, I., Cebecauer, M. and Jenelius, E. (2021) [Who continued travelling by public transport during COVID-19? Socioeconomic factors explaining travel behaviour in Stockholm 2020 based on smart card data](#). *European Transport Research Review* 13, 31.
24. Badia, H. and Jenelius, E. (2021) [Design and operation of feeder systems in the era of automated and electric buses](#). *Transportation Research Part A: Policy and Practice*, 152, 146-172.
25. Cebecauer, M., Burghout, W., Jenelius, E., Babicheva, T. and Leffler, D. (2021) [Integrating demand responsive services into public transport disruption management](#). *IEEE Open Journal of Intelligent Transportation Systems* 2, 24-36.
26. Kholodov, Y., Jenelius, E., Cats, O., van Oort, N., Mouter, N., Cebecauer, M. and Vermeulen, A. (2021) [Public transport fare elasticities from smartcard data: Evidence from a natural experiment](#). *Transport Policy* 105, 35-43.
27. Laskaris, G., Cats, O., Jenelius, E., Rinaldi, M. and Viti, F. (2021) [A holding control strategy for diverging bus lines](#). *Transportation Research Part C: Emerging Technologies* 126, 103087.
28. Leffler, D., Burghout, W., Jenelius, E. and Cats, O. (2021) [Simulation of fixed versus on-demand station-based feeder operations](#). *Transportation Research Part C: Emerging Technologies* 132, 103401.
29. Martins Leite de Almeida, C., Silveira, S., Jenelius, E. and Fuso-Nerini, F. (2021) [Using the Sustainable Development Goals to evaluate possible transport policies for the city of Curitiba](#). *Sustainability* 13(21), 12222.
30. Pefitsi, S., Jenelius, E. and Cats, O. (2021) [Evaluating crowding in individual train cars using a dynamic transit assignment model](#). *Transportmetrica B: Transport Dynamics* 9(1), 693-711.
31. Hatzenbühler, J., Cats, O. and Jenelius, E. (2020) [Transitioning towards the deployment of line-based autonomous buses: Consequences for service frequency and vehicle capacity](#). *Transportation Research Part A: Policy and Practice*, 138, 491-507.
32. Jenelius, E. (2020) [Personalized predictive public transport crowding information with automated data sources](#). *Transportation Research Part C: Emerging Technologies* 117, 102647.
33. Jenelius, E. (2020) [Data-driven metro train crowding prediction based on real-time load data](#). *IEEE Transactions on Intelligent Transportation Systems* 21(6), 2254-2265.

34. Jenelius, E. and Cebecauer, M. (2020) [Impacts of COVID-19 on public transport ridership in Sweden: Analysis of ticket validations, sales and passenger counts](#). *Transportation Research Interdisciplinary Perspectives* 8, 100242.
35. Pefitsi, S., Jenelius, E. and Cats, O. (2020) [Determinants of passengers' metro car choice revealed through automated data sources: A Stockholm metro case study](#). *Transportmetrica A: Transport Science* 16(3), 529-549.
36. Saadallah, A., Moreira-Matias, L., Sousa, R., Khiari, J., Jenelius, E. and Gama, J. (2020) [BRIGHT - Drift-aware demand predictions for taxi networks](#). *IEEE Transactions on Knowledge and Data Engineering* 32(2), 234-245.
37. Ding-Mastera, J., Gao, S., Jenelius, E., Rahmani, M. and Ben-Akiva, M. (2019) [A latent-class adaptive routing choice model in stochastic time-dependent networks](#). *Transportation Research Part B: Methodological* 124, 1-17.
38. Laskaris, G., Cats, O., Jenelius, E., Rinaldi, M. and Viti, F. (2019) [Multiline holding based control for lines merging to a shared transit corridor](#). *Transportmetrica B: Transport Dynamics* 7(1), 1062-1095.
39. Tympakianaki, A., Koutsopoulos, H. N. and Jenelius, E. (2019) [Anatomy of tunnel congestion: Causes and implications for tunnel traffic management](#). *Tunnelling and Underground Space Technology* 83, 498-508.
40. Zhang, W., Jenelius, E. and Badia, H. (2019) [Efficiency of semi-autonomous and fully autonomous bus services in trunk-and-branches networks](#). *Journal of Advanced Transportation* 2019, art. id. 7648735, 17 pages.
41. Cats, O. and Jenelius, E. (2018) [Beyond a complete failure: The impact of partial capacity degradation on public transport network vulnerability](#). *Transportmetrica B: Transport Dynamics* 6(2), 77-96.
42. Cebecauer, M., Jenelius, E. and Burghout, W. (2018) [Integrated framework for real-time urban network travel time prediction on sparse probe data](#). *IET Intelligent Transport Systems* 12(1), 66-74.
43. Fu, J. and Jenelius, E. (2018) [Transport efficiency of off-peak urban goods deliveries: A Stockholm pilot study](#). *Case Studies on Transport Policy* 6(1), 156-166.
44. Jenelius, E. (2018) [Public transport experienced service reliability: Integrating travel time and travel conditions](#). *Transportation Research Part A: Policy and Practice* 117, 275-291.
45. Jenelius, E. and Koutsopoulos, H. N. (2018) [Urban network travel time prediction based on a probabilistic principal component analysis model of probe data](#). *IEEE Transactions on Intelligent Transportation Systems* 19(2), 436-445.
46. Tympakianaki, A., Koutsopoulos, H. N., Jenelius, E. and Cebecauer, M. (2018) [Impact analysis of transport network disruptions using multimodal data: A case study for tunnel closures in Stockholm](#). *Case Studies on Transport Policy* 6(2), 179-189.
47. Fu, J., Jenelius, E. and Koutsopoulos, H. N. (2017) [Identification of workstations in earthwork operations from vehicle GPS data](#). *Automation in Construction* 83, 237-246.
48. Rahmani, M., Koutsopoulos, H. N. and Jenelius, E. (2017) [Travel time estimation from sparse floating car data with consistent path inference: A fixed point approach](#). *Transportation Research Part C: Emerging Technologies* 85, 628-643.
49. Zhang, W., Jenelius, E. and Ma, X. (2017) [Freight transport platoon coordination and departure time scheduling under travel time uncertainty](#). *Transportation Research Part E: Logistics and Transportation Review* 98, 1-23.
50. Zhang, Y., Jenelius, E. and Kottenhoff, K. (2017) [Impact of real-time crowding information: A Stockholm metro case study](#). *Public Transport* 9(3), 483-499.

51. Cats, O. and Jenelius, E. (2015) [Planning for the unexpected: The value of reserve capacity for public transport network robustness](#). *Transportation Research Part A: Policy and Practice* 81, 47-61.
52. Jenelius, E. and Cats, O. (2015) [The value of new public transport links for network robustness and redundancy](#). *Transportmetrica A: Transport Science* 11(9), 819-835.
53. Jenelius, E. and Koutsopoulos, H. N. (2015) [Probe vehicle data sampled by time or space: Implications for travel time allocation and estimation](#). *Transportation Research Part B: Methodological* 71, 120-137.
54. Jenelius, E. and Mattsson, L.-G. (2015) [Road network vulnerability analysis: Conceptualization, implementation and application](#). *Computers, Environment and Urban Systems* 49, 136-147.
55. Mattsson, L.-G. and Jenelius, E. (2015) [Vulnerability and resilience of transport systems: A discussion of recent research](#). *Transportation Research Part A: Policy and Practice* 81, 16-34.
56. Rahmani, M., Jenelius, E. and Koutsopoulos, H. N. (2015) [Non-parametric estimation of route travel time distributions from low-frequency floating car data](#). *Transportation Research Part C: Emerging Technologies* 58B, 343-362.
57. Tympakianaki, A., Koutsopoulos, H. N. and Jenelius, E. (2015) [c-SPSA: Cluster-wise simultaneous perturbation stochastic approximation algorithm and its application to dynamic origin-destination matrix estimation](#). *Transportation Research Part C: Emerging Technologies* 55, 231-245.
58. Cats, O. and Jenelius, E. (2014) [Dynamic vulnerability analysis of public transport networks: Mitigation effects of real-time information](#). *Networks and Spatial Economics* 14 (3-4), 435-463.
59. Ding, J., Gao, S., Jenelius, E., Rahmani, M., Huang, H., Ma, L., Pereira, F. and Ben-Akiva, M. (2014) [Routing policy choice set generation in stochastic time-dependent networks: Case studies for Stockholm and Singapore](#). *Transportation Research Record* 2466, 76-86
60. Jenelius, E. and Koutsopoulos, H. N. (2013) [Travel time estimation for urban road networks using low frequency probe vehicle data](#). *Transportation Research Part B: Methodological* 53, 64-81.
61. Jenelius, E. (2012) [The value of travel time variability with trip chains, flexible scheduling and correlated travel times](#). *Transportation Research Part B: Methodological* 46(6), 762-780.
62. Jenelius, E. and Mattsson, L.-G. (2012) [Road network vulnerability analysis of area-covering disruptions: A grid-based approach with case study](#). *Transportation Research Part A: Policy and Practice* 46(5), 746-760.
63. Jenelius, E., Mattsson, L.-G. and Levinson, D. (2011) [Traveler delay costs and value of time with trip chains, flexible activity scheduling and information](#). *Transportation Research Part B: Methodological* 45(5), 789-807.
64. Jenelius, E. (2010) [User inequity implications of road network vulnerability](#). *Journal of Transport and Land Use* 2(3/4), 57-73.
65. Jenelius, E., Westin, J. and Holmgren, Å. J. (2010) [Critical infrastructure protection under imperfect attacker perception](#). *International Journal of Critical Infrastructure Protection* 3, 16-26.
66. Jenelius, E. (2009) [Network structure and travel patterns: Explaining the regional disparities of road network vulnerability](#). *Journal of Transport Geography* 17, 234-244.
67. Holmgren, Å. J., Jenelius, E. and Westin, J. (2007) [Evaluating strategies for defending electric power networks against antagonistic attacks](#). *IEEE Transactions on Power Systems* 22, 76-84.
68. Jenelius, E., Petersen, T. and Mattsson, L.-G. (2006) [Importance and exposure in road network vulnerability analysis](#). *Transportation Research Part A: Policy and Practice* 40(7), 537-560.

Other Publications

International Conference Proceedings

1. Andreolli, R., Nybacka, M., O'Reilly, C., Jenelius, E. and Falkgrim, E. (2023) [A review on real vehicle usage modelling of driverless multipurpose vehicles in vehicle routing problems](#). *Proceedings of the Design Society* 3, 385-394.
2. Cebecauer, M., Gundlegård, D., Jenelius, E. and Burghout, W. (2023) [Spatio-temporal public transport mode share estimation and analysis using mobile network and smart card data](#). *2023 IEEE 26th International Conference on Intelligent Transportation Systems (ITSC)*, Bilbao, Spain, pp. 2543-2548.
3. Harahap, F., Mohammed, H., Henrysson, M., Franco, J. and Jenelius, E. (2023) [Policy tools for electric vehicle adoption in Curitiba City](#). *Proceedings of the International Conference Sustainable Built Environment and Urban Transition (SBEUT)*.
4. Ngo, H. N., Kaddoum, E., Cebecauer, M., Jenelius, E. and Goursolle, A. (2023) [Considering multi-scale data for continuous traffic prediction using adaptive multi-agent system](#). *2023 IEEE 26th International Conference on Intelligent Transportation Systems (ITSC)*, Bilbao, Spain, pp. 1835-1842.
5. Skoufas, A., Cebecauer, M., Burghout, W. and Jenelius, E. [Generating and evaluating route choice sets for large multimodal public transport networks: A case study for Stockholm Region](#). *2023 IEEE 26th International Conference on Intelligent Transportation Systems (ITSC)*, Bilbao, Spain, pp. 2926-2931.
6. Badia, H. and Jenelius, E. (2020) [Feeder transit services in different development stages of automated buses: comparing fixed routes versus door-to-door trips](#). *Transportation Research Procedia* 47, 521-528.
7. Leffler, D., Burghout, W., Cats, O. and Jenelius, E. (2020) [Distribution of passenger costs in fixed versus flexible station-based feeder services](#). *Transportation Research Procedia* 47, 179-186.
8. Saadallah, A., Moreira Matias, L., Sousa, R. Khiari, J., Jenelius, E. and Gama, J. (2019) [BRIGHT - Drift-Aware Demand Predictions for Taxi Networks](#). *2019 IEEE 35th International Conference on Data Engineering (ICDE 2019)*, pp. 2145-2146.
9. Zhang, W., Jenelius, E. and Badia, H. (2019) [Efficiency of semi-autonomous platooning vehicles in high-capacity bus services](#). In: Fortz B., Labbé M. (eds) *Operations Research Proceedings 2018*, pp. 579-585. Springer, Cham.
10. Cebecauer, M., Jenelius, E. and Burghout, W. (2018) [Spatio-temporal partitioning of large urban networks for travel time prediction](#). *2018 21st International Conference on Intelligent Transportation Systems (ITSC)*, pp. 1390-1395.
11. Jenelius, E. (2018) [Car-specific metro train crowding prediction based on real-time load data](#). *2018 21st International Conference on Intelligent Transportation Systems (ITSC)*, pp. 78-83.
12. Tympakianaki, A., Koutsopoulos, H. N. and Jenelius, E. (2018) [Robust SPSA algorithms for dynamic OD matrix estimation](#). *Procedia Computer Science* 130, pp. 57-64.
13. Fu, J. and Jenelius, E. (2017) [Transport efficiency of off-peak urban goods deliveries: A Stockholm pilot study](#). Transportation Research Board Annual Meeting 2017 Paper #17-4109.
14. Jenelius, E., Kristoffersson, I. and Fransson, M. (2017) [Validation of traffic simulation models based on the macroscopic fundamental diagram](#). *Transportation Research Procedia* 27, pp. 561-568.
15. Leffler, D., Cats, O., Jenelius, E. and Burghout, W. (2017) [Real-time short-turning in high frequency bus services based on passenger cost](#). *5th IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS)*, pp. 861-866.

16. Rodriguez-Deniz, H., Jenelius, E. and Villani, M. (2017) [Urban network travel time prediction via online multi-output Gaussian process regression](#). *Intelligent Transportation Systems (ITSC), 2017 IEEE 20th International Conference on*.
17. Fu, J., Jenelius, E. and Koutsopoulos, H. N. (2016) [Identification of workstations in earthwork operations from vehicle GPS data](#). Transportation Research Board Annual Meeting 2016 Paper #16-1272.
18. Fu, J., Jenelius, E. and Koutsopoulos, H. N. (2016) [Driving time and path generation for heavy construction sites from GPS traces](#). *2016 IEEE International Conference on Intelligent Transportation Systems (ITSC)*, pp. 1141-1146.
19. Laskaris, G., Cats, O., Jenelius, E. and Viti, F. (2016) [A real-time holding decision rule accounting for passenger travel cost](#). *2016 IEEE International Conference on Intelligent Transportation Systems (ITSC)*, pp. 2410-2415.
20. Zhang, W., Ma, X. and Jenelius, E. (2016) [Planning of heavy-duty vehicle platoon formulation: basic scheduling problem considering travel time variance](#). Transportation Research Board Annual Meeting 2016 Paper #16-6899.
21. Ding, J., Gao, S., Jenelius, E., Rahmani, M., Pereira, F. and Ben-Akiva, M. (2015) [Latent-class routing policy choice model with revealed-preference data](#). Transportation Research Board Annual Meeting 2015 Paper #15-1963.
22. Cats, O. and Jenelius, E. (2014) [The value of new cross-radial links for public transport network resilience](#). *Vulnerability, Uncertainty, and Risk: Quantification, Mitigation, and Management - Proceedings of the 2nd International Conference on Vulnerability and Risk Analysis and Management, ICVRAM 2014 and the 6th International Symposium on Uncertainty Modeling and Analysis, ISUMA 2014*, ASCE, pp. 638-647.
23. Rahmani, M., Jenelius, E. and Koutsopoulos, H. N. (2014) [Floating car and camera data fusion for non-parametric route travel time estimation](#). *Proceedings of the 17th International IEEE Annual Conference on Intelligent Transportation Systems (ITSC 2014)*, pp. 1286-1291.
24. Fu, J., Jenelius, E. and Koutsopoulos, H. N. (2013) [Optimal fleet selection for earthmoving operations](#). *ISEC 2013 - 7th International Structural Engineering and Construction Conference: New Developments in Structural Engineering and Construction*, pp. 1261-1266.
25. Rahmani, M., Jenelius, E. and Koutsopoulos, H. N. (2013) [Route travel time estimation using low-frequency floating car data](#). *Proceedings of the 16th International IEEE Annual Conference on Intelligent Transportation Systems (ITSC 2013)*, The Hague, The Netherlands, October 6-9 2013, pp. 2292-2297.
26. Jenelius, E. and Koutsopoulos, H. N. (2012) Time-based vs. distance-based sampling in probe vehicle data: Implications for travel time estimation. *Proceedings of the 17th International Conference of Hong Kong Society for Transportation Studies*, pp. 185–192.
27. Jenelius, E., Rahmani, M. and Koutsopoulos, H. N. (2011) [Travel time estimation for urban road networks using low frequency GPS probes](#). Transportation Research Board Annual Meeting 2012 Paper #12-3159.
28. Jenelius, E. (2010) [Redundancy importance: Links as rerouting alternatives during road network disruptions](#), *Procedia Engineering* 3, 129–137.

Books, Book Chapters and Special Issues

1. Jenelius, E. and Al-Kaff, A. (2024) [Editorial special section on intelligent transportation systems for public transportation](#). *IEEE Open Journal of Intelligent Transportation Systems* 5, 205-207.

2. Jenelius, E. (2022) [Impact on public transport](#). In: Mulley, C. and Attard, M. (eds.) *Transport and Pandemic Experiences (Transport and Sustainability, Vol. 17)*, pp. 287-302. Emerald Publishing Limited, Bingley. ISBN: 9781801173452.
3. Jenelius, E. (2022) [Rail transport resilience to demand shocks and COVID-19](#). In: Calcada, R. A. B. and Kaewunruen, S. (eds.) *Rail Infrastructure Resilience: Best Practices Handbook*, pp. 65-79. Woodhead Publishing, ISBN: 9780128210420.
4. Jenelius, E. and Mattsson, L.-G. (2021) [Resilience of transport systems](#). In: Vickerman, R. (eds.) *International Encyclopedia of Transportation* vol. 7, pp. 258-267. UK: Elsevier Ltd. ISBN: 9780081026717.

Trade Publications and Reports

1. Jenelius, E., Berg Wincent, B. and Burghout, W. (2023) [Modellering av mikromobilitet \(M3\) - Resmönster, potential och utformning av delade elskotertjänster](#). KTH, Project Report TRITA-ABE-RPT-2329. In Swedish.
2. Jenelius, E., Andersson, J., Fröidh, O., Jonsson, D. J., Ma, Z. Maghrour Zefreh, M. and Wang, Q. (2023) [Prestudy on Establishing a Research Project on Forecasting Methodology](#). KTH, Project Report TRITA-ABE-RPT-2328.
3. Berg Wincent, B., Jenelius, E. and Burghout, W. (2023) [Parkering av elsparkcyklar: Enkätundersökning av effekter och åsikter kring parkeringsförbudet i Stockholm, Göteborg och Malmö](#). KTH, Technical Report TRITA-ABE-RPT-237. In Swedish.
4. Almlöf, E., Nybacka, M. and Jenelius, E. (2022) [PSSST – Policies for sustainable, shared and self-driving transportation](#). KTH, Project Report. In Swedish.
5. Badia Rodriguez, H., Jenelius, E., Lansner, E. and Montero, M. (2021) [Modelling of Micromobility \(M3\) - Prestudy on Knowledge Needs and Usage Patterns](#). KTH, Project Report.
6. Cats, O., Ferranti, F., Rubensson, I., Cebecauer, M., Kolkowski, L. and Jenelius, E. (2021). [Unravelling mobility patterns using longitudinal smart card data](#). KTH, Project Report.
7. Jenelius, E. (2020) [Så har Covid-19 påverkat kollektivtrafikresandet i Sverige](#). *Trafik & Veje* September 2020, pp. 8-9. In Swedish.
8. Jenelius, E., Brundell-Freij, K., Wang, Q., Cebecauer, M. and van Amelsfort, D. (2020). [Bilrestider i storstad: Variationsmönster och upplevd osäkerhet \(VARIA\)](#). KTH, Project Report.
9. Cats, O., Rubensson, I., Cebecauer, M., Kholodov, Y., Vermeulen, A., Jenelius, E. and Susilo, Y. (2019). [How fair is the fare? Estimating travel patterns and the impacts of fare schemes for different user groups in Stockholm based on smartcard data](#). KTH, Project Report.
10. Jenelius, E. and Cebecauer, M. (2019). [SHARP: Pre-study of Data Sharing for Demand-Responsive and Public Transport System-of-Systems](#). KTH Project Report.
11. Jenelius, E., Kristoffersson, I. and Fransson, M. (2017). [Dynamiska trängselindex](#). KTH Project Report. In Swedish.
12. Pernestål Brenden, A., Darwish, R., Susilo, Y., Chee, P. N. E., Jenelius, E., Hatzenbühler, J. and Hafmar, P. (2018). [Shared Automated Vehicles - Research & Assessment in a 1st Pilot](#): KTH Project Report.
13. Gradilla, L. A. and Jenelius, E. (2010) Análisis de vulnerabilidad de redes carreteras, *NOTAS* núm. 124, Mayo-Junio 2010, artículo 2. Publicación bimestral de divulgación externa, Instituto Mexicano del Transporte. In Spanish.
14. Jenelius, E. (2009) [Sårbarhetsaspekter i effektbedömningar av investeringar i vägsystemet \(Vulnerability aspects in impact assessments of road system investments\)](#). In *Värden och metoder för transportsektorns samhällsekonomiska analyser – ASEK 4*. Swedish Institute for Transport and Communications Analysis (SIKA), Rapport 2009:3, ISSN 1402-6651. In Swedish.

15. Baradaran, S., Christiansson, H., Jenelius, E., Eliasson, J., Lundberg, M. and Matstoms, P. (2006) *Evaluation of the Stockholm trial on road traffic: Report June 2006*. City of Stockholm.

Appropriated Funds

1. *ResPT: Investigating Swedish public transport resilience from an engineering and socio-ecological perspective* (co-applicant), 2024-2027, 6.9 MSEK (total). Funding entity: Swedish Energy Agency (Energimyndigheten) (grant no. 2023-205216).
2. *Modellering av mikromobilitet (M3) – fortsättningsprojekt kring parkering och ruttval* (PI), 2024-2026, 3.35 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2023/57724).
3. *BULT: Beredskapshänsyn i utveckling och långsiktplanering av transportsystem* (co-applicant), 2023-2027, 30.0 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2022/33589).
4. *AlgoTransit: Algoritmer för hållbar och effektiv kollektivtrafik* (PI), 2023-2025, 2.3 million SEK. Funding entity: Vinnova (grant no. 2023-01224).
5. *CAPA-CITY: Identifying capacity gaps to support urban and regional development* (co-applicant), 2023-2024, 1,6 MSEK. Funding entity: Region Stockholm (grant no. RS 2022-0210).
6. *Pilot för validering av nya datakällor för skattning av kollektivtrafikruttval (VaNDKoll)* (co-applicant), 2023-2024, 0.8 MSEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2022/107935).
7. *Effekten av trängsel och komfort i kollektivtrafiken på resval: empirisk förstudie* (PI), 2023-2024, 0.745 million SEK. Funding entity: Swedish National Transport Administration (grant no. TRV 2022/33324).
8. *Prognosmetodik långväga resor, förstudie* (PI), 2023, 0.5 million SEK. Funding entity: Swedish National Transport Administration (grant no. TRV 2022/32545).
9. *Analysis of Public Transport Data: Building an Open-Source Library in R* (co-applicant), 2022-2025, 14.7 million NOK (total). Funding entity: The Research Council of Norway (grant no. 332237).
10. *HITS 2* (subtask leader), 2022-2024, 42 million SEK (total). Funding entity: Swedish Governmental Agency for Innovation Systems (Vinnova) (FFI) (grant no. 2022-00636).
11. *SMART (Simulation and Modelling of Automated Road Transport) – Part 3* (co-applicant), 2022-2025, 6.15 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2022/8287).
12. *Modellering av mikromobilitet (M3): Resmönster, potential och utformning av delade elskoteritjänster* (PI), 2021-2023, 2.2 million SEK. Funding entity: Swedish National Transport Administration (grant no. TRV 2021/22609).
13. *Multimodal trafikledning (MML)* (co-applicant), 2021-2023, 4.0 MSEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2020/118663).
14. *Smarta bytespunkter 2* (co-applicant), 2020-2022, 4.6 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2019/16219).
15. *Smart City Concepts in Curitiba - Low-carbon transport and mobility in a digital society* (co-applicant), 2020-2023. Funding entity: Vinnova (grant no. 2019-04893).
16. *Sustainable and Integrated Urban Transport Systems - HITS2024* (subtask leader), 2020-2022, 70 million SEK (total). Funding entity: Vinnova (FFI) (grant no. 2020-00565).
17. *Unravelling travel demand patterns using Access card data* (co-applicant), 2020-2021, 1,5 million SEK. Funding entity: Region Stockholm (grant no. RS 2019-0499).

18. *BIG BRO 2.0: Decision Support for Maintenance and Upgrading of Existing Transportation Infrastructure* (co-applicant), 2019-2021. Funding entity: Vinnova (grant no. 2019-01162).
19. *Modellering av mikromobilitet (M3): Förstudie om kunskapsbehov och användningsmönster* (PI), 2019-2020, 0.5 million SEK. Funding entity: Swedish National Transport Administration (grant no. TRV 2019/87471).
20. *Prediktions- och scenariobaserad trafikledning 2 (POST2)* (co-applicant), 2019-2021, 4.0 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2018/132473).
21. *Simulation and Modelling of Automated Road Transport 2 (SMART2)* (co-applicant), 2019-2021, 4.27 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2019/27044).
22. *Smarta bytespunkter* (co-applicant), 2019-2021, 4.6 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2019/16219).
23. *Självkörande fordon och kollektivtrafik – hot och möjligheter* (co-applicant), 2018-2019, 1.0 million SEK (total). Funding entity: Stockholms Läns Landsting (SLL) (grant no. LS 2017-0585).
24. *Skattning av resmönster och effekten av biljettprissättning för olika användargrupper i Stockholm baserat på Access-data* (co-applicant), 2018-2019, 1.5 million SEK. Funding entity: Stockholms Läns Landsting (SLL) (grant no. LS2017-0585).
25. *Prestudy of Data Sharing for Demand-Responsive and Public Transport System-of-Systems (SHARP)* (PI), 2018-2019, 0.3 million SEK. Funding entity: Vinnova (FFI) (grant no. 2018-02014).
26. *Bilrestider i storstad: variationsmönster och upplevd osäkerhet (VARIA)* (PI), 2018-2020, 1.26 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2018/16380).
27. *Modellering av samband mellan trängsel i bytespunkter och i fordon* (PI), 2017-2018, 1.7 million SEK. Funding entity: Stockholms Läns Landsting (SLL) (grant no. LS2016-1423), Centre for Transport Studies (CTS) (grant no. 472).
28. *Prediktions och scenariobaserad trafikledning (POST)* (co-applicant), 2017-2018, 3.6 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. TRV 2016/106509).
29. *iQMobility: Automatiserad kollektivtransportlösning för bussar i stadsmiljö* (co-applicant), 2016-2020, 17.5 million SEK (total). Funding entity: Vinnova (FFI) (grant no. 2016-02554).
30. *Trafikeffekter av automatisering (SMART)* (co-applicant), 2016-2019, 6.3 MSEK (total). Funding entity: Swedish National Transport Administration.
31. *Förstudie kring framtagning av fördröjningsfunktioner för vägtrafik till SAMPERS* (co-applicant), 2016-2017, 0.35 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. 2016/80131).
32. *Dynamiska trängselindex och adaptiva trängselavgifter* (PI), 2015-2017, 0.95 million SEK (total). Funding entity: Swedish National Transport Administration (grant no. 2015/5784).
33. *Off-peak citydistribution* (co-applicant), 2015-2016, 3.4 million SEK (total). Funding entity: Vinnova FFI (FIFFI) (grant no. 2015-02338).
34. *Anatomy of Tunnel Closures* (co-applicant). 2015-2016, 1.7 million SEK. Funding entity: Google Ireland Limited. Contract research.
35. *Adapt-IT (Analysis and Development of Attractive Public Transport through Information Technology)* (PI), 2014-2017, 2.145 million SEK. Funding entity: Vinnova (Eranet Transport Future Travelling) (grant no. 2014-03874), Centre for Transport Studies (CTS) (grant no. 487).
36. *Optimerad masstransport i dynamiska miljöer* (co-applicant), 2014-2017, 6 million SEK (total). Funding entity: Vinnova (FFI) (grant no. 2013-02655).
37. *Personal Transport Advisor: an integrated platform of mobility patterns for Smart Cities to enable demand-adaptive transportation systems (PETRA)* (co-applicant), 2014-2017, 3.1 million Euro

(total). Funding entity: EU Seventh Framework Agreement (FP7-SMARTCITIES-2013) (grant no. 609042).

38. *Högfrekvent infrastrukturövervakning av väg- och trafikinformation* (co-applicant), 2013-2015, 1.5 million SEK (total). Funding entity: Vinnova (Forska & väx) (grant no. 2013-03805).
39. *Trängselindex för uppräknig av trängselskatt* (PI), 2012, 0.1 million SEK (total). Funding entity: City of Stockholm through Centre for Transport Studies (CTS) (grant no. CTS 255).

Conference Participation 2019-2024

1. *Transit Data 2024*, London, UK, 1-4 July 2024. Organisational committee member, session chair, paper presentation.
2. *Transportforum*, Linköping, Sweden, 17-18 January 2024. Attendance.
3. *103rd Annual Meeting of the Transportation Research Board (TRB)*, 7-12 January 2024. Attendance, co-authored presented paper.
4. *12th Swedish Transport Research Conference*, Stockholm, Sweden, 16-17 October 2023. Chair of Local Organizing Committee, session chair.
5. *11th Symposium of the European Association for Research in Transportation (hEART)*, Zürich, Switzerland, 6-8 September 2023. Attendance, co-authored presented paper.
6. *National Conference in Transport Research*, Lund, Sweden, 18-19 October 2022. Paper presentation, session chair.
7. *Trafikdage*, Aalborg, Denmark, 22-23 August 2022. Invited presentation and panel discussion.
8. *Transportforum*, Linköping, Sweden, 16-17 June 2022. Invited plenary keynote speech. Paper presentation.
9. *10th Symposium of the European Association for Research in Transportation (hEART)*, Leuven, Belgium, 1-3 June 2022. Attendance, co-authored presented paper.
10. *8th International Symposium on Transport Network Reliability (INSTR)*, Stockholm, 16-18 June 2021. Chair of local organizing committee. Conference organization, session organization, keynote moderator, session chair, paper presentation. Online.
11. *European Association for Research in Transportation (hEART) e-conference*, Lyon, France, 3-4 February 2021. Roundtable presentation and discussion. Online.
12. *100th Annual Meeting of the Transportation Research Board (TRB)*, 21-29 January 2021. Poster presentation. Online.
13. *Transportforum*, Linköping, Sweden, 8-9 January 2020. Paper presentation. Online.
14. *National Conference in Transport Research*, Linköping, Sweden, 22-23 October 2019. Paper presentation.
15. *Université Paris-Sarclay Interdisciplinary Research Program on Urban Mobility*, Paris, France, 30 September-4 October 2019. Workshop participation, paper presentation.
16. *mobil.TUM International Scientific Conference on Mobility and Transport*, Munich, Germany, 11-12 September 2019. Attendance, co-authored presented paper.
17. *TransitData2019: 5th International Workshop and Symposium*. Paris, France, 8-10 July 2019. Attendance, co-authored presented paper.
18. *6th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS)*, Kraków, Poland, 5-7 June 2019. Paper presentation.
19. *Transportforum*, Linköping, Sweden, 9-10 January 2019. Paper presentation.

National and International Awards

- 2020–2023: Each year ranked among the top 70 scientists internationally (top 1 in Sweden 2021-2023) for yearly citation impact in the field Logistics and Transportation by Ioannidis et al. (2020, 2021, 2022, 2023). Each year ranked among the top 25 scientists at KTH Royal Institute of Technology for yearly citation impact in all fields. Each year ranked among the top 2-percentile scientists internationally for career citation impact in all fields.
- 2019: Ranked as the 4th most highly cited Swedish researcher in the social sciences by news magazine Fokus.
- 2019: ITS Bavaria Best Paper Award at mobil.TUM conference, Munich, 11-12 September 2019.
- 2018: Nominated by the President of KTH to *Pro Futura Scientia XIV*, a national cutting-edge research program for young researchers in humanities and social sciences. First candidate ever nominated by KTH to the program.
- 2018: Paper “Importance and exposure in road network vulnerability analysis” (Jenelius et al. 2006) ranked as one of ten “Classic Papers in Transportation” by Google Scholar.

Membership in Academies/Committees, etc.

- 2022: Member of the Scientific Committee of the 11th Triennial Symposium on Transportation Analysis, June 19-25, 2022, Mauritius Island.
- 2021– Digital Futures Faculty member, KTH.
- 2021– Climate Action Faculty member, KTH.
- 2020–2022: Leader of thematic area “Holistic Transport System” within KTH Transport Platform.
- 2020: Member of KTH Scientific Council for the City of Stockholm, fossile-free and accessible transport and mobility.
- 2018– Member of the International Scientific Committee of the International Symposium on Transport Network Reliability (INSTR).
- 2018– Member of the Scientific Committee of the European Association for Research in Transportation (hEART).
- 2018– Member of the Scientific Committee of the Swedish Transportation Research Conference.
- 2016– Member of the reference group for RCAM, the Reliability Centered Asset Management group at the Division of Electromagnetic Engineering, KTH.

Assignments as Reviewer / Independent Expert

Editorial/Advisory Boards

- 2023– Editorial Board member for *npj Sustainable Mobility and Transport* (Springer Nature)
- 2023– Editorial Advisory Board member for *Transportation Research Part C: Emerging Technologies* (Elsevier).
- 2021– Editorial Advisory Board member for *Transportation* (Springer).
- 2020–2022: Associate Editor for *Journal of Advanced Transportation* (Hindawi).
- 2019– Associate Editor for *IEEE Open Journal of Intelligent Transportation Systems*.

Referee Assignments for Journals

- Recurrent reviewer assignments (ca. 30 per year) in international scientific journals including *Transportation Research Part A-C*, *Transportation*, *Journal of Transport Geography*, *Transport Reviews*, *IEEE Transactions on Intelligent Transportation Systems*, *Transportmetrica A-B*.

Assignments as Public Examiner/Opponent

1. Evaluation Committee Member of Paria Sadeghian (main supervisor Johan Håkansson), PhD thesis, Dalarna University, May 2024.
2. Evaluation Committee Member of Fatemeh Naqavi (main supervisor Muriel Beser Hugosson), PhD thesis, KTH, January 2024.
3. Evaluation Committee Member of Rémi Lacombe (main supervisor Balázs Kulcsár), PhD thesis, Chalmers University, December 2023.
4. Opponent of Sergei Dytckov (main supervisor Jan Persson), Licentiate thesis, Malmö University, November 2023.
5. Examiner of Emil Jansson (main supervisor Oskar Fröidh), Licentiate thesis, KTH, September 2023.
6. Evaluation Committee Member of Son-Tung Nguyen (main supervisor Mario Cools), Urban and Environmental Engineering Department, University of Liège, Belgium, June 2023.
7. Opponent at midterm PhD seminar for Kah Yong Tiong (main supervisor Lena Winslott Hiselius), Department of Technology and Society, Lund University, November 2022.
8. Evaluation Committee Member of Alvaro Torres Amaya (main supervisor Alexandre de Almeida Prado Pohl), PhD thesis, Federal University of Technology – Paraná (UTFPR), Brazil, September 2022.
9. Evaluation Committee Member of Joanne Yuh-Jye Lin (main supervisor Cynthia Chen), MSc thesis, University of Washington, August 2022.
10. Evaluation Committee Member of Jennifer Warg (main supervisor Markus Bohlin), PhD thesis, KTH, June 2022.
11. Evaluation Committee Member of Keith Azzopardi (main supervisor Adrian Muscat), MSc thesis, University of Malta, May 2022.
12. Evaluation Committee Member of Alfred Söderberg (main supervisor Lena Winslott Hiselius), PhD thesis, Lund University, May 2021.
13. Evaluation Committee Member of Chei Pee Nen (main supervisors Wong Yiik Diew and Yusak Susilo), PhD thesis, Nanyang Technological University, Singapore, April 2021.
14. Examiner of Johan Nygren (main supervisor Susann Boij), Licentiate thesis, KTH, April 2021.
15. Evaluation Committee Member of Kam Fung Cheung (main supervisor Professor Michael Bell), PhD thesis, The University of Sidney, March 2021.
16. Evaluation Committee Member of Rafael Basso (main supervisor Balázs Kulcsár), PhD thesis, Chalmers University of Technology, February 2021.
17. Evaluation Committee Member of Can Yang (main supervisor Yifan Ban), PhD thesis, KTH, December 2020.
18. Evaluation Committee Member of Morten Eltved (main supervisor Otto Ancker Nielsen), PhD thesis, Technical University of Denmark (DTU), November 2020.
19. Evaluation Committee Member of Álvaro Torres Amaya (main supervisor Alexandre de Almeida Prado Pohl), qualifying PhD thesis, Federal University of Technology – Paraná (UTFPR), Brazil, October 2020.
20. Evaluation Committee Member of Ding Luo (main supervisor Hans van Lint), PhD thesis, Technical University of Delft, February 2020.
21. Evaluation Committee Member of Isak Rubensson (main supervisor Yusak Susilo), PhD thesis, KTH, January 2020.
22. Opponent of Therese Lindberg, Licentiate thesis (supervisors Jan Lundgren, Anders Peterson and Andreas Tapani), Department of Science and Technology, Linköping University, May 2019.

23. Evaluation Committee Member of Ioulia Markou (main supervisor Francisco Pereira), PhD thesis in Transport Modelling, Department of Management Engineering, Technical University of Denmark (DTU), April 2019.
24. Opponent at midterm PhD seminar for Dennis Dreier (main supervisor Mark Howells), Department of Energy Technology, School of Industrial Engineering and Management, KTH, March 2018.
25. Examiner of Nadia Viljoen, PhD thesis in Industrial Engineering (supervisor Johan W. Joubert), Department of Industrial and Systems Engineering, Faculty of Engineering, Built Environment, and Information Technology, University of Pretoria, 2017.
26. Examiner of Sally Freeman, Master of Engineering (Civil) Thesis (supervisor Michael Taylor), University of South Australia, 2013.

Other Scientific Work

Hosted Research Visits, Workshops

1. Hosted visit to KTH by Assoc. Prof. Samitha Samaranyake, Cornell University, USA, June 2024.
2. Hosted visit to KTH by Prof. Monica Menendez, NYU Abu Dhabi, June 2024.
3. Co-organizer of *Digital Twin Workshop* funded by KTH Transport Platform and Digital Futures, 18 December 2023.
4. Hosted exchange to KTH by MSc. Nicolas da Silva Fradique, Université de Lyon, France, April-September 2023.
5. Hosted exchange to KTH by MSc. Ha Nhi Ngo, Paul Sabatier University (Toulouse III), France, January-March 2023.
6. Hosted visit to KTH by Assoc. Prof. Ali Mostafavi, Texas A&M University, USA, May 2022.
7. Hosted exchange to KTH by MSc. Joanne Lin, University of Washington, USA, September 2021-July 2022.
8. Hosted exchange to KTH by MSc. Yu Sun, Harbin Institute of Technology, China, September 2021-September 2022.
9. Hosted exchange to KTH by MSc. Qianqian Yan, TU Eindhoven, the Netherlands, November 2021-January 2022.
10. Hosted visit to KTH by Dr. Meng Meng, University of Greenwich, UK, May 2019.
11. Hosted visit to KTH by Assist. Prof. Mehdi Ekbatani, University of Canterbury, New Zealand, January-February 2019.
12. Hosted visit to KTH by Mr. Yaroslav Kholodov, TU Delft, the Netherlands, May-July 2019.
13. Main organizer of International Workshop on *Advances in Public Transport Control and Operations*, KTH, 16 June 2017.
14. Co-organizer of *ICT for Transport Workshop* organized by the KTH ICT platform, 4 March 2015.

Invited Talks, Research Visits

1. *Roundtable on Transport System Resilience*, invited presentation “Methods and decision-making for investments to deal with disruptions”, International Transport Forum, OECD, Paris, France, 14-15 September 2023.
2. *Persontrafik*, Stockholm, 25-27 October 2022. Planning and speaking at invited seminar “Personalization and automation of future public transport”.
3. *Cities Workshop on Rail Data* (UCL-Lund-KTH), Stockholm, 2-3 May 2022 and London, 29-30 June 2022. Presentation and workshop moderator.
4. Presentation to MTR Specialists’ Network on Traffic Planning, 1 March 2021. Online.
5. TU Eindhoven OPAC group seminar series, 3 September 2020. Invited presentation. Online.

6. Hong Kong University of Science and Technology and KTH Global Seminar Series – *Biases, Norms and Culture: A Framework for Understanding Our Responses to a Pandemic*. 23 June 2020. Invited presentation and panel discussion. Online.
7. “Knowledge Lunch”, invited presentation to public transport operator company Keolis, 24 April 2020. Online.
8. *Nordic Sustainable Solutions 2020 Mexico City*, organized by Embassy of Sweden and Business Sweden, 12-14 February 2020. Invited as part of group from KTH. Several presentations and roundtables with politicians, officials and organizations.
9. *Urban Mobility Challenges 2019 Symposium: Digital Technologies in Transport*. Organized by UPC, Barcelona, Spain, 18-19 November 2019. Invited presentations.
10. *Masterclass: Next Generation Transportation Systems*, University of Luxembourg, 12 July 2019. Invited presentation.
11. *Sustainable Urban Transport and Smart City Roadshow Indonesia (Jakarta, Bandung and Makassar)*, organized by Embassy of Sweden and Business Sweden, 28-30 November 2017. Invited to represent academia in triple-helix delegation. Several presentations and roundtables with politicians, officials and researchers.
12. NEC Labs, Heidelberg, invited presentation, 1 December 2016.
13. Workshop on *Public Transport Modelling and Analytics*, TU Delft, 13 September 2016. Participation and presentation.
14. Workshop on *Innovations in Operations and Planning of Public Transport*, Technion, Israel, 4 July 2016. Invited presentation.
15. Workshop on *Resilience Engineering*, University of Tokyo, 30 November-1 December 2015. Invited presentation.
16. Workshop on *Road network models and volume-delay functions for Samplers*, hosted by Swedish Transport Administration, Stockholm, 16 March 2015. Invited presentation.
17. Seminar on *Critical Dependencies and Important Societal Functions*, Lund University, 28 November 2013. Invited presentation.
18. Seminar on ITS hosted by Government Offices of Sweden, Swedish Transport Agency and Swedish Transport Administration, Stockholm, 16 May 2013. Invited presentation.
19. PhD student exchange visit to University of Minnesota, Professor David Levinson, June-August 2009.

Pedagogical Merits

Pedagogical Education

- 2023: *Qualification Course for Examiners*, KTH. Online course required to be eligible as examiner at KTH.
- 2017: [LH216V Develop the Learning by Using Grading Criteria](#), KTH. 1.5 ECTS.
- 2017: [LH219V Supervision and Assessment of Degree Project Work in First and Second Cycle](#), KTH. 3.0 ECTS.
- 2016: [LH231V Teaching and Learning in Higher Education](#), KTH. 7.5 ECTS.
- 2012: [LH209V Doctoral Supervision](#), KTH. 3.0 ECTS.

Teaching Experience

- 2024– [FAF3816 Scientific Engagement in Transport Science](#), KTH. Roles: Examiner, course responsible, teacher. Programme: *Doctoral Programme in Transport Science*, specialisation Transport Systems, 240 credits, compulsory course. Level: Third cycle. Credits: 3.0 ECTS. Language: English.
- 2020– [AH1030 Urban Development and Transport System](#), KTH. Role: Teacher. Programme: *Degree Programme in Civil Engineering and Urban Management*, 300 credits, year 2, Conditionally Elective. Level: First cycle. Credits: 7.5 ECTS. Language: Swedish.
- 2020– [AH204X Degree Project in Railway and Rail Traffic, Second Cycle](#), KTH. Role: Examiner. *Master's Programme, Transport and Geoinformation Technology*, 120 credits, year 2, Conditionally Elective. Credits: 30.0 ECTS. Language: Swedish or English.
- 2018– [AH1025 Public Transport Systems, Buses and Rail, BC](#), KTH. Roles: Examiner, course responsible, teacher. Tasks: Course design, planning, teaching 4-5 lectures/year, grading, examination, evaluation. Programme: *Degree Programme in Civil Engineering and Urban Management*, 300 credits, year 3, STP, Conditionally Elective. Level: First cycle. Credits: 7.5 ECTS. Language: Swedish.
- 2018– [FAH3002 Traffic Simulation Modelling and Applications](#), KTH. Role: Examiner. Programme: *Doctoral Programme in Transport Science*, specialisation Transport Systems, 240 credits, elective course. Level: Third cycle. Credits: 7.5 ECTS. Language: English.
- 2018–2023: [FAH3460 Topics in Transport Science, Part 1](#), KTH. Roles: Examiner, course responsible, teacher. Programme: *Doctoral Programme in Transport Science*, specialisation Transport Systems, 240 credits, compulsory course. Level: Third cycle. Credits: 3.5 ECTS. Language: English.
- 2018–2023: [FAH3462 Topics in Transport Science, Part 2](#), KTH. Roles: Examiner, course responsible. Programme: *Doctoral Programme in Transport Science*, specialisation Transport Systems, 240 credits, compulsory course. Level: Third cycle. Credits: 4.0 ECTS. Language: English.
- 2018– [FAF3811 Short Literature Course in Transport Planning](#), KTH. Programme: *Doctoral Programme in Transport Science*, specialisation Transport Systems, 240 credits, elective course. Role: Examiner. Level: Third cycle. Credits: 4.0 ECTS. Language: English.
- 2018– [FAF3812 Literature Course in Transport Planning](#), KTH. Role: Examiner, course responsible, teacher. Programme: *Doctoral Programme in Transport Science*, specialisation Transport Systems, 240 credits, elective course. Level: Third cycle. Credits: 7.5 ECTS. Language: English.
- 2018– [AH101X Degree Project in Civil Engineering, First Cycle](#), KTH. Roles: Examiner, supervisor. Programme: *Degree Programme in Civil Engineering and Urban Management*, 300 credits, year 3, STP, Conditionally Elective. Credits: 15.0 ECTS. Language: Swedish.
- 2017– [AH203X Degree Project in Transport Science, Second Cycle](#), KTH. Roles: Examiner, supervisor. Programme: *Master's Programme, Transport, Mobility and Innovation*, 120 credits, year 2, Conditionally Elective. *Master's Programme, Transport and Geoinformation Technology*, 120 credits, year 2, Conditionally Elective. Credits: 30.0 ECTS. Language: Swedish or English.
- 2017–2020: [AH201X Degree Project in Traffic and Transport Planning, Second Cycle](#), KTH. Roles: Examiner, supervisor. Credits: 30.0 ECTS. Language: Swedish or English.
- 2016– [AH2173 Public Transport](#), KTH. Roles: Examiner, course responsible, teacher. Tasks: Course design, planning, teaching 5-6 lectures/year, grading, examination, evaluation. Programme: *Master's Programme, Transport, Mobility and Innovation*, 120 credits, year 1, Mandatory. *Master's Programme, Transport and Geoinformation Technology*, 120 credits, year 1, Conditionally Elective. *Master's Programme, Railway Engineering*, 120 credits, year 1, Conditionally Elective. Level: Second cycle. Credits: 7.5 ECTS. Language: English.

- 2013–2015: [AH2177 Transport and Geodata Analysis](#), KTH. Roles: Course responsible, teacher. Tasks: Course design, teaching 5-6 lectures/year, grading, course evaluation. Programme: *Master's Programme, Transport and Geoinformation Technology*, 120 credits, year 1, Conditionally Elective. Level: Second cycle. Credits: 6.0 ECTS. Examiner: Joel Franklin. Language: English.
- 2012, 2016–2018: [AH2170 Transport Data Collection and Analysis](#), KTH. Roles: Course responsible, teacher. Tasks: Course design, teaching 5-6 lectures/year, grading, course evaluation. Programme: *Master's Programme, Transport and Geoinformation Technology*, 120 credits, year 1, Mandatory. Level: Second cycle. Credits: 7.5 ECTS. Examiner: Haris Koutsopoulos (2012), Per Näsman (2016), Anders Karlström (2017). Language: English.
- 2012–2015: [AH1023 Urban and Traffic Planning: Methods and Applications](#), KTH. Roles: Course responsible, teacher. Tasks: Course design, planning, teaching 5-6 lectures/year, grading, evaluation. Programme: *Degree Programme in Civil Engineering and Urban Management*, year 3, SPL, TTK, Mandatory. Level: First cycle. Credits: 7.5 ECTS. Examiner: Albania Nissan. Language: Swedish.

Minor Teaching Assignments

- 2016: [MJ2685 Smart Cities and Climate Mitigation Strategies](#), KTH. Role: Guest teacher (one lecture). Level: Second cycle. Credits: 7.5 ECTS Examiner: Maria Malmström. Language: English.
- 2016: [SF1910 Tillämpad statistik \(Applied Statistics\)](#), KTH. Role: Course planner (one project task 1.5 ECTS). Level: First cycle. Credits: 7.5 ECTS. Examiner: Camilla Johansson Landén. Language: Swedish.
- 2006–2008, 2010, 2011, 2016: [AH2401/AH240V Risker i tekniska system \(Risk in Technical Systems\)](#), KTH. Role: Teacher (one lecture/year). Level: Second cycle. Credits: 7.5 ECTS. Examiner: Per Näsman. Language: Swedish.
- 2011: [AH1024 Styrning av trafiksystem \(Traffic Management and Operation\)](#), KTH. Role: Teacher (three lectures). Level: First cycle. Credits: 7.5 ECTS. Examiner: Haris Koutsopoulos. Language: Swedish.
- 2009, 2010: [AH2302 Transport Modelling](#), KTH. Role: Teacher (one lecture/year), teaching assistant (six computer lab sessions/year). Level: Second cycle. Credits: 7.5 ECTS. Examiner: Staffan Algers. Language: English.
- 2008: [IH5129 Systems Analysis](#), KTH. Role: Teaching assistant. Level: Third cycle. Credits: 7.5 ECTS. Examiner: Lars-Göran Mattsson. Language: English.
- 2007: [IB5822 Risk Analysis](#), KTH. Role: Teacher (three lectures/year). Level: First and second cycle. Credits: 7.5 ECTS. Examiner: Per Näsman. Language: Swedish.

Pedagogical Activity outside the Higher Education Institution

- 2023: “Shared E-Scooters: Part of the Sustainable Urban Mobility System?”, lecture at KTH Executive School, Programme on Shared Mobility Services for City of Oslo and City of Stockholm, 30 March 2023.

Supervision

Doctoral Theses

1. Erik Almlöf, [Beyond Technology: Understanding Societal Impacts of Implementing Self-Driving Vehicle Systems on Road Transport](#), KTH, June 2024. Co-supervisor. Main supervisor: Mikael Nybacka.

2. David Leffler, [Simulation-based Evaluation of Fixed to Flexible Transit](#), KTH, October 2022. Main supervisor.
3. Jonas Hatzenbühler, [Simulation and Optimization of Innovative Urban Transportation Systems](#), KTH, June 2022. Main supervisor.
4. Soumela Pefitsi, [Public Transport Demand and Supply Management under Uneven Passenger Distributions](#), KTH, June 2022. Main supervisor.
5. Matej Cebecauer, [Enhancing Short-Term Traffic Prediction for Large-Scale Transport Networks by Spatio-Temporal Clustering](#), KTH, December 2021. Main supervisor.
6. Giorgos Laskaris, [Multiline Holding Control and Integration of Cooperative-ITS](#), University of Luxembourg, July 2019. Co-supervisor. Main supervisor: Francesco Viti, University of Luxembourg.
7. Wei Zhang, [Planning and Evaluation of Autonomous Vehicles in Freight and Public Transport Services](#), KTH, June 2019. Main supervisor.
8. Athina Tympakianaki, [Demand Estimation and Bottleneck Management Using Heterogeneous Traffic Data](#), KTH, February 2018. Co-supervisor. Main supervisor: Haris Koutsopoulos.
9. Jiali Fu, [Evaluating and Improving the Transport Efficiency of Logistics Operations](#). KTH, April 2017. Co-supervisor. Main supervisor: Haris Koutsopoulos.
10. Mahmood Rahmani, [Urban Travel Time Estimation from Sparse GPS Data: An Efficient and Scalable Approach](#), KTH, June 2015. Co-supervisor. Main supervisor: Haris Koutsopoulos.

Licentiate Theses

1. Boel Berg Wincent, [Shared e-Scooter Usage Patterns: Analysis of App and Trip Data](#), KTH, March 2024. Main supervisor.
2. Qi Zhang, [Mobility Knowledge Graph and its Application in Public Transport](#), KTH, December 2023. Co-supervisor. Main supervisor: Zhenliang Ma.
3. Erik Almlöf, [Exploring Societal Impacts of Self-Driving Public Transport Using Four-Step Transport Models](#), KTH, June 2022. Co-supervisor. Main supervisor: Mikael Nybacka.
4. Jonas Hatzenbühler, [Transition towards Fixed-Line Autonomous Bus Transportation Systems](#), KTH, May 2020. Main supervisor.
5. Soumela Pefitsi, [Simulation and Evaluation of Urban Rail On-Board Crowding](#), KTH, November 2019. Main supervisor.
6. David Leffler, [Simulation Based Evaluation of Flexible Transit](#), KTH, June 2019. Main supervisor.
7. Matej Cebecauer, [Short-Term Traffic Prediction in Large-Scale Urban Networks](#), KTH, May 2019. Main supervisor
8. Jiali Fu, [Logistics of Earthmoving Operations: Simulation and Optimization](#), KTH, June 2013. Co-supervisor. Main supervisor: Prof. Haris Koutsopoulos.

Master's and Bachelor's Theses

1. Carl Vilhelm Boström, ["Text me when you are home": A Comparison of the Quality and Usability of Cellular Data to Traditional Travel Surveys](#). KTH, MSc thesis, 30 credits, 2024.
2. Jesper Helén, [Evolving Public Transportation: Applying Genetic Algorithms to Optimize Halmstad's Bus Network](#). KTH, MSc thesis, 30 credits, 2024.
3. Mariam Mehdi, [Planeringsverktyg för Regional BRT: Verktyg för utvärdering av kvalitét för regionalt busskoncept](#). KTH, MSc thesis, 30 credits, 2024.
4. Joaquin Franco, [Inclusion of differential pricing in congestion charging scheme: The case of Stockholm and Curitiba](#). KTH, MSc thesis, 30 credits, 2023.

5. Efrat Aviad, [Waiting for the Magic Bus: Unravelling the Impact of Bus Design on Station Dwell Time: A Comprehensive Analysis and Case Study](#). KTH, MSc thesis, 30 credits, 2023.
6. Katrina Aleksandra Bramberga, [Teleworking in Four-Step Transport Demand Models](#), KTH. MSc thesis, 30 credits, 2023.
7. Liam Luciano Russell Anjos, [Policies in the Era of Autonomous Vehicles](#), KTH. MSc thesis, 30 credits, 2023.
8. Lukas Castan and Lea Modig Reisch, [Från hinder till möjlighet: Kartläggning av faktorer som påverkar ett cykelnäts attraktivitet och framtagning av en användarvänlig cykelkarta över Kungsholmen](#), KTH. BSc thesis, 15 credits, 2023.
9. Julien Rigaut, [Trip redistribution and calibration of the mode choice model of Catalunya](#), KTH. MSc thesis, 30 credits, 2022.
10. Anastasios Skoufas and Manuel Chala, [Evaluation of Bus Networks Designed by a Metaheuristic Algorithm. A Case Study in Södertälje, Sweden](#), KTH. MSc thesis, 30 credits, 2022.
11. Juan Manuel López Vásquez, [Integrating dial-a-ride and ridesharing services into Curitiba's Public Transport Network \(RIT\)](#), KTH. MSc thesis, 30 credits, 2022.
12. Mahsa Movaghar, [Assessing Machine Learning Algorithms to Develop Station-based Forecasting Models for Public Transport](#), KTH. MSc thesis, 30 credits, 2022.
13. Omkar Parishwad, [Developing transport interaction macro models to simulate traffic patterns: Case of Oslo, Norway](#), KTH. MSc thesis, 30 credits, 2022.
14. François Poinignon, [Integration of Shared Autonomous Fleets in Public Transport: A Case Study of Uppsala, Sweden](#), KTH. MSc thesis, 30 credits, 2022.
15. Abdirahman Mohamed Ali, [Pandemins påverkan på individens kollektivtrafikresande](#), KTH. BSc thesis, 15 credits, 2022.
16. Marcus Ramberg, [Covid-19-pandemins påverkan på kollektivtrafiken i Hallands län](#), KTH. BSc thesis, 15 credits, 2022.
17. Boel Berg Wincent, [Bus Rapid Transit design parameters and their impact on travel times: A micro-simulation study of boarding and alighting through all doors and bus lanes](#), KTH. MSc thesis, 30 credits, 2021.
18. Robert Günther Klar, [Geographically Weighted Regression based Investigation of Transport Policies for Increased Public Transport Ridership: A Case Study of Stockholm](#), KTH. MSc thesis, 30 credits, 2021.
19. Benny Lam and Shiyi Peng, [Developing a Network Algorithm for Demand Responsive Transit Service in A Rural Area of Sweden](#), KTH. MSc thesis, 30 credits, 2021.
20. Erik Lansner, [Investigating usage patterns of shared electric scooters in Stockholm](#), KTH. MSc thesis, 30 credits, 2021.
21. Karl Kvarnefalk, [Självkörande bussars påverkan på Stockholms stomlinjer](#), KTH. BSc thesis, 15 credits, 2021.
22. Francisco Caron Malucelli, [A BRT Corridor through Stockholm's Inner-city: Assessing the Operational Impacts of a BRT Corridor along Bus Line 4 Using Microscopic Simulation](#), KTH. MSc thesis, 30 credits, 2020.
23. Alaa Eltayeb, [Implementing Crowding in SL's traffic models Case study: Stockholm Public Transport Network](#), KTH. MSc thesis, 30 credits, 2020.
24. Kevin Lloret Gonzales, [Robustness simulation of bus crew schedules](#), KTH. MSc thesis, 30 credits, 2019.
25. Karim Ounsi, [Geographically Weighted Regression as a Predictive Tool for Station-Level Ridership: the Case of Stockholm](#), KTH. MSc thesis, 30 credits, 2019.
26. Marc Urtasun López, [Analysis of Autonomous Buses' Impact on Transportation between Stockholm's Universities](#), KTH. BSc thesis, 15 credits, 2019.

27. Wentao Yang, [Simulation-based evaluation of a new floating vehicle speeding detection method](#), KTH. MSc thesis, 30 credits, 2019.
28. Boel Berg Wincent, [Gångavstånd för resor med elsparkcykel](#), KTH. BSc thesis, 15 credits, 2019.
29. Anna Enström, *The Effect of Departure Time Distribution on the Efficiency of an Autonomous Mobility on Demand Service in Stockholm*, KTH. MSc thesis, 30 credits, 2019.
30. Giorgos Laskaris, *A Real Time Control Strategy for Multiple Bus Routes using a Shared Transit Corridor*, KTH. MSc thesis, 30 credits, 2016.
31. Héctor Rodríguez-Déniz, *Urban Traffic Prediction via Gaussian Process Regression*. Division of Statistics and Machine Learning, Linköping University. MSc thesis, 30 credits, 2016.
32. Pierre Villaume, *Four Innovative Proposals to Enhance the Tram Priority Request System in Paris*, KTH. MSc thesis, 30 credits, 2015.
33. Luke Hobbs, *Vulnerability in the Public Transport Networks of Amsterdam and Stockholm*, KTH. MSc thesis, 30 credits, 2015.
34. Zhouran Li, *The Efficiency of Off-peak Deliveries in Stockholm City*, KTH. MSc thesis, 30 credits, 2015.
35. Abraham Josue Rondon Sosa, *The Impact of Weather Conditions on Urban Travel Speed using ANPR Observations*, KTH. MSc thesis, 30 credits, 2014.
36. Käti Lingenäs Gütthlein, *Gröna resplaner: Vilken inverkan nationella och lokala myndigheter kan ha på en privat eller offentlig verksamhets motivation att anta en grön resplan*, KTH. MSc thesis, 30 credits, 2013.
37. Molley Morgan, *Short Term Labor Supply: When Do Stockholm Taxi Driver's Stop Working?* Dept. of Spatial Economics, VU Amsterdam. MSc thesis, 30 credits, 2012.

Doctoral Students Supervised at Present

1. *Boel Berg Wincent*: PhD in Transport Science, KTH, admitted 2021, degree expected 2026. Main supervisor.
2. *Anastasios Skoufas*: PhD (Licentiate) in Transport Science, KTH, admitted 2023, degree expected 2025. Main supervisor.
3. *Erik Almlöf*: PhD in Machine Design, KTH, admitted 2018, degree expected 2024. Co-supervisor. Main supervisor: Mikael Nybacka.
4. *Raphael Andreolli*: PhD in Vehicle and Maritime Engineering, KTH, admitted 2021, degree expected 2026. Co-supervisor. Main supervisor: Mikael Nybacka.
5. *Mohd Aiman Khan*: PhD (Licentiate) in Transport Science, KTH, admitted 2023, degree expected 2025. Co-supervisor. Main supervisor: Wilco Burghout.
6. *Qi Zhang*: PhD in Transport Science, KTH, admitted 2021, degree expected 2025. Co-supervisor. Main supervisor: Zhenliang Ma.

General Public Presentations

- 2021: [Panel discussion on future shared transport](#), LAVA (KTH Civil Engineering student chapter labour market day), 11 February 2021. Online.
- 2020: [“An Overview of Transport System Resilience”](#), ITRL breakfast seminar, KTH, 20 October 2020. Online.
- 2020: [“Impacts of Covid-19 on public transport use in Sweden”](#), EIT Urban Mobility - Nordic Perspective Summit, DTU, 13 October 2020. Online.

Features in News Media

- 2024: "Stockholm krymper: Så kortas din resväg", *Mitt I*, Stockholm local newspaper, 16 January 2024.
- 2023: "Vilda strejken ökade köerna på vägarna", *Dagens Nyheter*, national daily newspaper, 18 April 2023.
- 2022: "Riskkapitalisten ser ut att få rätt: 'Blir en slakt'", *Svenska Dagbladet*, national daily newspaper, 18 May 2022.
- 2021: "Ojämlig kollektivtrafik får S att rasa", *Mitt I*, Stockholm local newspaper, 24 August 2021.
- 2020: "Guldbron är en dödsstöt mot klimatmålen", *Dagens Nyheter*, national daily newspaper, 29 June 2020.
- 2020: "Tidig coronaeffekt på 222:an – nu tillbaka till normala", *Mitt I*, Stockholm newspaper, 8 June 2020.
- 2017: "Trött på bilköer? Kör mer som en robot!", *Mitt I*, Stockholm newspaper, 25 April 2017.
- 2015: "Skingrar bilköerna med mobilens hjälp", *KTH Forskningsnyheter*, 20 November 2015.
- 2014: "Big data kan förutse bilköer", *Vetenskapsradion*, Swedish Public Radio P1, 4 June 2014.
- 2012: *TV4 vetenskap/TV4 Stockholm News* 26 September 2012.
- 2012: "Forskarhjälp undan bilköer", *Res Forum/Trafik Forum* 26 September 2012.
- 2012: "GPS-data från taxi kan underlätta framkomligheten", *Taxi idag*, issue 7/2012.

Other pedagogical merits

- 2024: *K2 Award for Best Student Thesis on Sustainable Mobility* to Juan Manuel López Vásquez, MSc thesis *Integrating Dial-a-Ride and Ridesharing Services into Curitiba's Public Transport Network (RIT)*. Supervisors Francisco Malucelli and Erik Jenelius.
- 2022: *K2 Award for Best Student Thesis on Road Public Transport*, 3rd price to Abdirahman Mohamed, BSc thesis *Pandemins påverkan på individens kollektivtrafikresande*. Supervisors Isak Rubensson and Erik Jenelius.
- 2019: *K2 Award for Best Student Thesis on Sustainable Mobility* to Kevin Lloret Cendales, MSc thesis *Robustness Simulation of Bus Crew Schedules*. Supervisors Astrid Adelsköld and Erik Jenelius.

Management and Collaboration

Management Education

- 2024: *The Fundamentals of National Security*. Online course, Swedish Defence University, April 2024.
- 2023: *Sustainable Development at KTH*. Online course, November 2023.
- 2023: *Gender-Aware Leadership, Reunion (Återträff, genusmedvetet ledarskap)*, one-day workshop, KTH ABE School, Näringslivets ledarskapsakademi, February 2023.
- 2022: *Gender Mainstreaming in the Public Sector in 60 Minutes (Jämställdhetsintegrering i offentlig sektor på 60 minuter)*. Jämställdhetsmyndigheten, November 2022.
- 2022: *Leadership for Associate Professors – Tools for Constructive Communication and Feedback*. KTH Leadership and Management Development, March-April 2022.
- 2021: *Basic University Economics (Grundläggande högskoleekonomi/Ekonomi för icke-ekonomer med ledningsansvar)*. KTH Staff Development, April-May 2021.
- 2020: *Basic Labour Regulations for Manager/Leader (Grundläggande arbetsrätt för chef/ledare 1 och 2)*. KTH Staff Development, December 2020.
- 2019: *Effective Personal Leadership (Effektivt personligt ledarskap)*. 1-year personal education and mentoring program, Ove Jansson (Leadership Management International), 2019.

2018: *Partners in Learning (PIL)*, KTH career program for Assistant Professors. KTH Academic Career Development, 2018.

2016: Half-day seminar on gender equality, Department of Transport Science, May 2016.

2013: One-day workshop *Project Management in Practice*, KTH Staff Development, December 2013.

2012, 2016: Courses LH207V Doctoral Supervision and LH231V Teaching and Learning in Higher Education provided knowledge about management in relation to doctoral supervision and higher education respectively, including aspects such as gender equality, diversity and equal treatment.

Management Tasks and Administration

2023: Chair of Local Organizing Committee for 12th Swedish Transport Research Conference (STRC), Stockholm, 16-17 October 2023.

2022–2024 Deputy Director of KTH Transport Platform. The Transport Platform connected more than 800 researchers in over 40 research groups and 14 centres in five thematic research areas related to transport issues. The annual budget was ca. 3 MSEK.

2021– Steering group member of Transport Research Environment with Novel Perspectives (TRENoP), KTH. TRENoP has an annual budget of ca. 36 MSEK.

2021: Chair of Local Organizing Committee for 8th International Symposium on Transport Network Reliability (INSTR), Stockholm, 16-18 June 2021.

2020–2022: Leader of thematic area “Holistic Transport System” within KTH Transport Platform.

2019– Member of the Steering Group and the Professors Council of the Department of Civil and Architectural Engineering, KTH.

2019– Head of the Division of Transport Planning, KTH. At the end of 2023 the division had 32 employees, annual turnover 39.5 MSEK.

2018– Steering group member of Centre for Traffic Research (CTR), KTH. CTR has an annual budget of ca. 10 MSEK.

2015–2019: Group manager within the Division of Transport Planning with delegated personnel responsibilities. Group size varying between 3 and 10 people.

2014– Director of KTH iMobility Lab, funded by SRA TRENoP. The lab aims at using data from opportunistic and traditional sensors to develop improved methods for multimodal traffic and mobility information and services. The lab hosts extensive databases, algorithms for their mining and processing, and open source traffic and transit simulation models. It has an annual budget of ca. 0.7 MSEK.

Research Policy Assignments

Expert Assignments

2024: Expert project proposal reviewer for the Swiss National Science Foundation.

2024: Expert project proposal reviewer for MTR Academy.

2023–2024: Expert project proposal reviewer for the Research Council of KU Leuven, Belgium.

2023: Expert project proposal reviewer for the Technical University of Munich.

2023: Expert project proposal reviewer for the New York University Abu Dhabi Institute.

2021: External reviewer for the New Frontiers in Research Fund program, Government of Canada.

2021: Expert reviewer for Israeli Smart Transportation Research Center (ISTRC) Annual Call for Research 2020-2021.

2020: Expert reviewer in project mid-term evaluation for K2, Sweden's national centre for research and education on public transport

2019–2024: Expert reviewer for Research Grants Council (RGC) of Hong Kong.

Erik Jenelius

2019: Expert reviewer for ERC Consolidation Grant.

2017: External reviewer for the Netherlands Organisation for Scientific Research (NWO) domain Applied and Engineering Sciences (TTW).

2015: External reviewer for the German Academic Exchange Service (DAAD) programme P.R.I.M.E. (Postdoctoral Researchers International Mobility Experience), co-financed by the Marie Curie Programme of the European Commission.

Consultation responses

2024: Consultation on “Submission of a basis for amending Regulation (2026:363) on intelligent transport systems in road transport due to delegated regulation on real-time traffic information (EU) 2022/670”. KTH, V-2024-0188.