

## CURRICULUM VITAE

### JEAN-FRANÇOIS CORDEAU

#### Personal information

*Occupation:* Full Professor and Chair in Logistics and Transportation, HEC Montréal  
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#### Education

1996-99 Ph.D., Applied Mathematics, École Polytechnique de Montréal  
1994-95 M.Sc., Operational Research, HEC Montréal  
1993-94 Certificate, Computer Science, Université de Montréal  
1990-92 B.B.A., Quantitative Methods, HEC Montréal

#### Employment

2018- Scientific Director, IVADO Labs  
2008- Full Professor, HEC Montréal  
2003-2008 Associate Professor, HEC Montréal  
1999-2003 Assistant Professor, HEC Montréal

#### Administrative duties

2017- Member of the Scientific Committee, Institut de valorisation des données de Montréal (IVADO)  
2016- Chairholder, Chair in Logistics and Transportation, HEC Montréal  
2016-2019 Member of the Executive Committee, Interuniversity Research Center on Enterprise Networks, Logistics and Transportation (CIRRELT)  
2010- Member of the Research Council, HEC Montréal  
2008-2013 Deputy Director, Interuniversity Research Center on Enterprise Networks, Logistics and Transportation (CIRRELT)  
2006-2016 Chairholder, Canada Research Chair in Logistics and Transportation, HEC Montréal  
2001-2006 Associate, Canada Research Chair in Distribution Management, HEC Montréal  
2000-2018 Academic Advisor, M.Sc. in Global Supply Chain Management, HEC Montréal

## Prizes and distinctions

- Pierre-Laurin Award for Research Excellence, HEC Montréal, 2018
- Award of Merit, Canadian Operational Research Society, 2016
- Member of the College of New Scholars, Artists and Scientists of the Royal Society of Canada, 2014-2021
- Best Paper Award Runner-up (with M.-È. Rancourt, G. Laporte and B. Watkins), Production and Operations Management Society, College of Humanitarian & Crisis Management, « Tactical Network Planning for Food Aid Distribution in Kenya », 2013.
- First Prize (with S. Bisailon, G. Laporte and F. Pasin), Challenge ROADEF, La gestion des perturbations dans le domaine aérien, 2009
- Tow Lecturer, Henry B. Tippie College of Business, University of Iowa, 2008
- Second Prize (with G. Laporte, F. Pasin and S. Ropke), Challenge ROADEF, Planification des techniciens et des interventions pour les télécommunications, 2007
- Prix Chenelière Éducation / Gaëtan-Morin, HEC Montréal, 2006
- Second Prize (with B. Jaumard and R. Morales), International Timetabling Competition, Metaheuristics Networks, 2003
- Second Prize (with G. Laporte), Challenge ROADEF, Gestion de la mission de satellites d'observation de la Terre, 2003
- Prix Jeune Chercheur, HEC Montréal, 2002

## Grants

- NSERC/PROMPT/Purolator, Collaborative Research and Development, “Data Intelligence for Logistics”, B. Gendron, J.-F. Cordeau, T.G. Crainic, E. Hassini, M.J. Roorda, 1 459 896 \$, 2019-2024.
- MITACS Accelerate/True North Marine, “Voyage Route Optimization for Ocean Going Vessels by Balancing Cost, Fuel Consumption and CO2 Emissions”, J.-F. Audy, J.-F. Cordeau, M. Rönnqvist, 357 945, 2019-2021.
- NSERC, Discovery grant – individual, “Logistics and transportation”, 365 000 \$, 2019-2024.
- MITACS Accelerate/Téo Taxi, “Planification des permutations de véhicules chez Téo Taxi”, J.-F. Cordeau, J. Gaudreault, C.-G. Quimper, 80 000 \$, 2018-2019.
- MITACS Accelerate/JDA Software Canada, “Data-driven Innovation for the Supply Chain and Retail Industry”, Y. Adulyasak, N. Chapados, J.-F. Cordeau, S.D. Jena, A. Lodi, L.-M. Rousseau, 426 667 \$, 2017-2019.
- NSERC/Canadian National Railway, Collaborative Research and Development, “Optimization of Intermodal Rail Operations and Locomotive Fleet Management”, E. Frejinger, J.-F. Cordeau, T.G. Crainic, 585 000 \$, 2017-2019.
- NSERC, Discovery grant – individual, “Logistics and transportation”, 225 000 \$, 2014-2019.
- NSERC, Discovery grant – accelerator supplement, “Logistics and transportation”, 120 000 \$, 2014-2017.
- FRQNT, Projet de recherche en équipe, “Méthodes d’optimisation appliquées à la planification intégrée de la production et de la distribution”, J.-F. Cordeau, G. Laporte, R. Jans, 117 000 \$, 2013-2016.
- Canada Research Chair in Logistics and Transportation, 500 000 \$, 2011-2016.
- CFI, Leaders Opportunity Fund, “Computer Facilities for Modelling and Optimization in Logistics and Transportation”, 466 473 \$, 2011.
- NSERC, Discovery grant – individual, “Logistics and transportation”, 200 000 \$, 2009-2014.

- MITACS, “Optimisation du transport et de la logistique dans le secteur forestier”, B. Gendron, J.-F. Cordeau, S. D’Amours, J.A. Ferland, J.-M. Frayret, M. Gendreau, L. Lebel, G. Pesant, L.-M. Rousseau, 127 000 \$, 2009-2010.
- FQRNT, Projet de recherche en équipe, G. Laporte, J.-F. Cordeau, 136 080 \$, 2008-2011.
- Canada Research Chair in Logistics and Transportation, 500 000 \$, 2006-2011.
- MITACS, “Optimisation du transport multimodal dans le secteur forestier”, B. Gendron, J.-F. Cordeau, S. D’Amours, J. Ferland, M. Gendreau, L.M. Rousseau, 40 000 \$, 2006-2008.
- NSERC/Kronos Altitude, Collaborative Research and Development, “Logiciel d’optimisation utilisant l’agrégation de contraintes”, F. Soumis, J.-F. Cordeau, G. Desaulniers, J. Desrosiers, M. Gamache, A. Hertz, P. Galinier, 383 307 \$, 2006-2008.
- NSERC, Discovery grant – individual, “Logistics and transportation”, 110 000 \$, 2004-2009.
- FQRNT, Établissement de nouveaux chercheurs, “Planification intégrée en logistique et en transport”, 45 000 \$, 2003-2006.
- FQRNT, Établissement de nouveaux chercheurs – équipement, 18 000 \$, 2003-2004.
- NSERC/AD OPT Technologies, Collaborative Research and Development, “Optimisation d’horaires d’employés travaillant sur des quarts”, F. Soumis, J.-F. Cordeau, G. Desaulniers, A. Hertz, 470 000 \$, 2003-2006.
- FCAR, Soutien aux équipes de recherche, “Méthodes d’optimisation appliquées à la gestion des transports”, G. Laporte, J.-F. Cordeau, M. Gendreau, J.-Y. Potvin, 264 000 \$, 2001-2004.
- FCAR, Soutien aux équipes de recherche – équipement, 25 000 \$, 2001-2002.
- NSERC, Individual Research Grant, “Méthodes de décomposition pour la planification intégrée en logistique et en transport”, 71 140 \$, 2000-2003.
- NSERC/AD OPT Technologies, Collaborative Research and Development, “Méthodes d’optimisation pour l’affectation des activités aux employés”, F. Soumis, J.-F. Cordeau, G. Desaulniers, 139 000 \$, 1999-2001.

### Papers in refereed scientific journals

1. Alvarez, A., Cordeau, J.-F., Jans, R., « The Consistent Production Routing Problem », to appear in *Networks*.
2. Wu, L., Adulyasak, Y., Cordeau, J.-F., Wang, S., « Vessel Service Planning in Seaports », to appear in *Operations Research*.
3. Nguyen, D.T., Adulyasak, Y., Cordeau, J.-F., Ponce, S., « Data-driven operations and supply chain management: established research clusters from 2000 to early 2020 », to appear in *International Journal of Production Research*.
4. Cabrera, N., Cordeau, J.-F., Mendoza, J.E., « The Doubly Open Park-and-loop Routing Problem », *Computers & Operations Research*, *Computers & Operations Research* 143, 105761, 2022.
5. Miranda, P.L., Cordeau, J.-F., Frejinger, E., « A Time-Space Formulation for the Locomotive Routing Problem at the Canadian National Railways », *Computers & Operations Research* 139, 105629, 2022.
6. Hellsten, E., Koza, D.F., Contreras, I., Cordeau, J.-F., Pisinger, D., « The Transit Time Constrained Fixed Charge Multi-commodity Network Design Problem », *Computers & Operations Research* 136, 105511, 2021.
7. Ruf, M., Cordeau, J.-F., « Adaptive Large Neighborhood Search for Integrated Planning in Railroad Classification Yards », *Transportation Research Part B* 150, 26-51, 2021.
8. Bruck, B.P., Cordeau, J.-F., Frejinger, E., « Integrated Inbound Train Split and Load Planning in an Intermodal Railway Terminal », *Transportation Research Part B* 145, 270-289, 2021.
9. Ortiz-Astorquiza, C., Cordeau, J.-F., Frejinger, E., « The Locomotive Assignment Problem with Distributed Power at the Canadian National Railway Company », *Transportation Science* 55, 510-531, 2021.

10. Thevenin, S., Adulyasak, Y., Cordeau, J.-F., “Material Requirements Planning Under Demand Uncertainty Using Stochastic Optimization”, *Production and Operations Management* 30, 475-493, 2021.
11. Alvarez, A., Cordeau, J.-F., Jans, R., Munari, P., Morabito, R., “Inventory Routing Under Stochastic Supply and Demand”, *Omega* 102, 102304, 2021.
12. Real, L.B., Contreras, I., Cordeau, J.-F., Camargo, R.S., Miranda, G., “Hub Network Design with Flexible Routes”, *Transportation Research Part E* 146, 102188, 2021.
13. Fragkos, I., Cordeau, J.-F., Jans, R., “Decomposition Methods for Large-Scale Network Expansion Problems”, *Transportation Research Part B* 144, 60-80, 2021.
14. Gruson, M., Cordeau, J.-F., Jans, R., “Benders Decomposition for a Stochastic Three-level Lot Sizing and Replenishment Problem with a Distribution Structure”, *European Journal of Operational Research* 291, 206-217, 2021.
15. Bruck, B., Castegini, F., Cordeau, J.-F., Iori, M., Poncemi, T., Vezzali, D., “A Decision Support System for Attended Home Services”, *INFORMS Journal on Applied Analytics* 50, 137-152, 2020.
16. Alvarez, A., Cordeau, J.-F., Jans, R., Munari, P., Morabito, R., “Formulations, Branch-and-Cut and a Hybrid Heuristic Algorithm for an Inventory Routing Problem with Perishable Products”, *European Journal of Operational Research* 283, 511-529, 2020.
17. Chitsaz, M., Cordeau, J.-F., Jans, R., “A Branch-and-Cut Algorithm for an Assembly Routing Problem”, *European Journal of Operational Research* 282, 896-910, 2020.
18. Huber, S., Cordeau, J.-F., Geiger, M., “A Matheuristic for the Swap-body Vehicle Routing Problem”, *OR Spectrum* 42, 111-160, 2020.
19. Markov, I., Bierlaire, M., Cordeau, J.-F., Maknoon, Y., Varone, S., “Waste Collection Inventory Routing with Non-stationary Stochastic Demands”, *Computers & Operations Research* 113, 104798, 2020.
20. Robinson La Rocca, C., Cordeau, J.-F., “Heuristics for Electric Taxi Fleet Management at Teo Taxi”, *INFOR* 57 642-666, 2019.
21. Kramer, R., Cordeau, J.-F., Iori, M., “Rich Vehicle Routing with Auxiliary Depots and Anticipated Deliveries: An Application to Pharmaceutical Distribution”, *Transportation Research Part E* 129, 162-174, 2019.
22. Zetina, C.A., Contreras, I., Cordeau, J.-F., “Exact Algorithms Based on Benders Decomposition for Multicommodity Uncapacitated Fixed-charge Network Design”, *Computers & Operations Research* 111, 311-324, 2019.
23. Gruson, M., Bazrafshan, M., Cordeau, J.-F., Jans, R., “A Comparison of Formulations for a Three-level Lot Sizing and Replenishment Problem with a Distribution Structure”, *Computers & Operations Research* 111, 297-310, 2019.
24. Zetina, C.A., Contreras, I., Cordeau, J.-F., “Profit-oriented Fixed-charge Network Design with Elastic Demand”, *Transportation Research Part B* 127, 1-19, 2019.
25. Trottier, L.-P., Cordeau, J.-F., “Solving the Vessel Routing and Scheduling Problem at a Canadian Maritime Transportation Company”, *INFOR* 57, 260-285, 2019.
26. Neves-Moreira, F., Almada-Lobo, B., Cordeau, J.-F., Guimarães, L., Jans, R., “Solving a Large Multi-product Production-Routing Problem with Delivery Time Windows”, *Omega* 86, 154-172, 2019.
27. Cordeau, J.-F., Furini, F., Ljubić, I., “Benders Decomposition for Very Large Scale Partial Set Covering and Maximal Covering Location Problems”, *European Journal of Operational Research* 275, 882-896, 2019.
28. Chitsaz, M., Cordeau, J.-F., Jans, R., “A Unified Decomposition Matheuristic for Assembly, Production and Inventory Routing”, *INFORMS Journal on Computing* 31, 134-152, 2019.
29. Ghilas, V., Cordeau, J.-F., Demir, E., Van Woensel, T., “Branch-and-Price for the Pickup and Delivery Problem with Time Windows and Scheduled Lines”, *Transportation Science* 52, 1191-1210, 2018.
30. Vié, M.-S., Zufferey, N., Cordeau, J.-F., “Solving the Wire-Harness Design Problem at a European Car Manufacturer”, *European Journal of Operational Research* 272, 712-724, 2018.
31. Bruck, B.P., Cordeau, J.-F., Iori, M., “A Practical Time Slot Management and Routing Problem in Attended Home Services”, *Omega* 81, 208-219, 2018.

32. Miranda, P., Cordeau, J.-F., Ferreira, D., Jans, R., Morabito, R., “A Decomposition Heuristic for a Rich Production Routing Problem”, *Computers & Operations Research* 98, 211-230, 2018.
33. Markov, I., Bierlaire, M., Cordeau, J.-F., Maknoon, Y., Varone, S., “A Unified Framework for Rich Routing Problems with Stochastic Demands”, *Transportation Research Part B*, 114, 213-240, 2018.
34. Gruson, M., Cordeau, J.-F., Jans, R., “The Impact of Service Level Constraints in Deterministic Lot Sizing with Backlogging”, *Omega* 79, 91-103, 2018.
35. Zetina, C.A., Contreras, I., Cordeau, J.-F., Nikbakhsh, E., “Robust Uncapacitated Hub Location”, *Transportation Research Part B* 106, 393-410, 2017.
36. Laurainne, P., Jobin, M.-H., Cordeau, J.-F., Becker, G., Shanti, A., Kurtz, J.-E., Gourieux, B., « Optimisation du parcours patient en hôpital de jour en oncohématologie par simulation intégrée à une démarche kaizen », *Logistique & Management* 25, 34-42, 2017.
37. Jena, S.D., Cordeau, J.-F., Gendron, B., “Lagrangian Heuristics for Large-Scale Dynamic Facility Location with Generalized Modular Capacities”, *INFORMS Journal on Computing* 29, 388-404, 2017.
38. Parragh, S.N., Cordeau, J.-F., “Branch-and-Price and Adaptive Large Neighborhood Search for the Truck and Trailer Routing Problem with Time Windows”, *Computers & Operations Research* 83, 28-44, 2017.
39. Gullhav, A.N., Cordeau, J.-F., Hvattum, L.M., Nygreen, B., “Adaptive Large Neighborhood Search Heuristics for Multi-tier Deployment Problems in Clouds”, *European Journal of Operational Research* 259, 829-846, 2017.
40. Beezão, A.C., Cordeau, J.-F., Laporte, G., Yanasse, H.H., “Scheduling Identical Parallel Machines with Tooling Constraints”, *European Journal of Operational Research* 257, 834-844, 2017.
41. Solyali, O., Cordeau, J.-F., Laporte, G., “The Impact of Modeling on Robust Inventory Management under Demand Uncertainty”, *Management Science* 62, 1188-1201, 2016.
42. Jena, S.D., Cordeau, J.-F., Gendron, B., “Solving a Dynamic Facility Location Problem with Partial Closing and Reopening”, *Computers & Operations Research* 67, 143-154, 2016.
43. Sinclair, K., Cordeau, J.-F., Laporte, G., “A Column Generation Post-Optimization Heuristic for the Integrated Aircraft and Passenger Recovery Problem”, *Computers & Operations Research* 65, 42-52, 2016.
44. Moreira, M.C.O., Cordeau, J.-F., Costa, A.M., Laporte, G., “Robust Assembly Line Balancing with Heterogeneous Workers”, *Computers & Industrial Engineering* 88, 254-263, 2015.
45. Adulyasak, Y., Cordeau, J.-F., Jans, R., “Benders Decomposition for Production Routing Under Demand Uncertainty”, *Operations Research* 63, 851-867, 2015.
46. Martins de Sá, E., Contreras, I., Cordeau, J.-F., de Camargo, R.S., de Miranda, G., “The Hub Line Location Problem”, *Transportation Science* 49, 500-518, 2015.
47. Jena, S.D., Cordeau, J.-F., Gendron, B., “Dynamic Facility Location with Generalized Modular Capacities”, *Transportation Science* 49, 484-499, 2015.
48. Jena, S.D., Cordeau, J.-F., Gendron, B., “Modeling and Solving a Logging Camp Location Problem”, *Annals of Operations Research* 232, 151-177, 2015.
49. Martins de Sá, E., Contreras, I., Cordeau, J.-F., “Exact and Heuristic Algorithms for the Design of Hub Networks with Multiple Lines”, *European Journal of Operational Research* 246, 186-198, 2015.
50. Cordeau, J.-F., Dell’Amico, M., Falavigna, S., Iori, M., “A Rolling Horizon Algorithm for Auto-Carrier Transportation”, *Transportation Research Part B* 76, 68-80, 2015.
51. Rancourt, M.-E., Cordeau, J.-F., Laporte, G., Watkins, B., “Tactical Network Planning for Food Aid Distribution in Kenya”, *Computers & Operations Research* 56, 68-83, 2015.
52. Cordeau, J.-F., Laganà, D., Musmanno, R., Vocaturo, F., “A Decomposition-Based Heuristic for a Multiple-Product Inventory Routing Problem”, *Computers & Operations Research* 55, 153-166, 2015.
53. Adulyasak, Y., Cordeau, J.-F., Jans, R., “The Production Routing Problem: A Review of Formulations and Solution Algorithms”, *Computers & Operations Research* 55, 141-152, 2015.
54. Cordeau, J.F., Legato, P., Mazza, R.M., Trunfio, R., “Simulation-Based Optimization for Housekeeping in a Container Transshipment Terminal”, *Computers & Operations Research* 53, 81-95, 2015.

55. Thiongane, B., Cordeau, J.-F., Gendron, B., “Formulations for the Nonbifurcated Hop-Constrained Multicommodity Capacitated Fixed-Charge Network Design Problem”, *Computers & Operations Research* 53, 1-8, 2015.
56. Coelho, L.C., Cordeau, J.-F., Laporte, G., “Heuristics for Dynamic and Stochastic Inventory-Routing”, *Computers & Operations Research* 52, 55-67, 2014.
57. Muter, I., Cordeau, J.-F., Laporte, G., “A Branch-and-Price Algorithm for the Multidepot Vehicle Routing Problem with Interdepot Routes”, *Transportation Science* 48, 425-441, 2014.
58. Contardo, C., Cordeau, J.-F., Gendron, B., “A GRASP + ILP-based Metaheuristic for the Capacitated Location-Routing Problem”, *Journal of Heuristics* 20, 1-28, 2014.
59. Contardo, C., Cordeau, J.-F., Gendron, B. “An Exact Method Based on Cut-and-Column Generation for the Capacitated Location-Routing Problem”, *INFORMS Journal on Computing* 26, 88-102, 2014.
60. Adulyasak, Y., Cordeau, J.-F., Jans, R., “Formulations and Branch-and-Cut Algorithms for Multivehicle Production and Inventory Routing Problems”, *INFORMS Journal on Computing* 26, 103-120, 2014.
61. Coelho, L., Cordeau, J.-F., Laporte, G., “Thirty Years of Inventory Routing”, *Transportation Science* 48, 1-19, 2014.
62. Adulyasak, Y., Cordeau, J.-F., Jans, R., “Optimization-Based Adaptive Large Neighborhood Search for the Production Routing Problem”, *Transportation Science* 48, 20-45, 2014.
63. Cordeau, J.-F., Ghiani, G., Guerriero, E., “Analysis and Branch-and-Cut Algorithm for the Time-Dependent Traveling Salesman Problem”, *Transportation Science* 48, 46-58, 2014.
64. Sinclair, K., Cordeau, J.-F., Laporte, G., “Improvements to a Large Neighbourhood Search Heuristic for an Integrated Aircraft and Passenger Recovery Problem”, *European Journal of Operational Research* 233, 234-245, 2014.
65. Contardo, C., Cordeau, J.-F., Gendron, B. “A Computational Comparison of Flow Formulations for the Capacitated Location-Routing Problem”, *Discrete Optimization* 10, 263-295, 2013.
66. Alba Martinez, M.A., Cordeau, J.-F., Dell'Amico, M., Iori, M., “A Branch-and-Cut Algorithm for the Double Traveling Salesman Problem with Multiple Stacks”, *INFORMS Journal on Computing* 25, 41-55, 2013.
67. Paquette, J., Cordeau, J.-F., Laporte, G., Pascoal, M.M.B. “Combining Multicriteria Analysis and Tabu Search for Dial-a-Ride Problems”, *Transportation Research Part B* 52, 1-16, 2013.
68. Bartolini, E., Cordeau, J.-F., Laporte, G., “An Exact Algorithm for the Capacitated Arc Routing Problem with Deadheading Demand”, *Operations Research* 61, 315-327, 2013.
69. Rancourt, M.-E., Cordeau, J.-F., Laporte, G., “Long-haul Vehicle Routing and Scheduling with Working Hour Rules”, *Transportation Science* 47, 81-107, 2013.
70. Bartolini, E., Cordeau, J.-F., Laporte, G., “Improved Lower Bounds and Exact Algorithm for the Capacitated Arc Routing Problem”, *Mathematical Programming Series A* 137, 409-452, 2013.
71. Tirado, G., Hvattum, L.M., Fagerholt, K., Cordeau, J.-F., “Heuristics for Dynamic and Stochastic Routing in Industrial Shipping”, *Computers & Operations Research* 40, 253-263, 2013.
72. Contreras, I., Cordeau, J.-F., Laporte, G., "Exact Solution of Large-Scale Hub Location Problems with Multiple Capacity Levels", *Transportation Science* 46, 439-459, 2012.
73. Solyali, O., Cordeau, J.-F., Laporte, G., “Robust Inventory Routing under Demand Uncertainty”, *Transportation Science* 46, 327-340, 2012.
74. Berbeglia, G., Cordeau, J.-F., Laporte, G., “A Hybrid Tabu Search and Constraint Programming Algorithm for the Dynamic Dial-a-Ride Problem”, *INFORMS Journal on Computing* 24, 343-355, 2012.
75. Parragh, S.N., Cordeau, J.-F., Doerner, K.F., Hartl, R.F., “Models and Algorithms for the Heterogeneous Dial-a-Ride Problem with Driver Related Constraints”, *OR Spectrum* 34, 593-633, 2012.
76. Stalhane, M., Andersson, H., Christiansen, M., Cordeau, J.-F., Desaulniers, G., “A Branch-Price-and-Cut Method for a Ship Routing and Scheduling Problem with Split Loads”, *Computers & Operations Research* 39, 3361-3375, 2012.

77. Hemmelmayr, V.C., Cordeau, J.-F., Crainic, T.G., “An Adaptive Large Neighborhood Search Heuristic for Two-Echelon Vehicle Routing Problems Arising in City Logistics”, *Computers & Operations Research* 39, 3215-3228, 2012.
78. Coelho, L.C., Cordeau, J.-F., Laporte, G., “Consistency in Multi-Vehicle Inventory-Routing”, *Transportation Research Part C* 24, 270-287, 2012.
79. Costa, A.M., Cordeau, J.-F., Gendron, B., Laporte, G., “Accelerating Benders Decomposition with Heuristic Master Problem Solutions”, *Pesquisa Operacional* 32, 3-19, 2012.
80. Paquette, J., Bellavance, F., Cordeau, J.-F., Laporte, G., “Measuring Quality of Service in Dial-a-Ride Operations: The Case of a Canadian City”, *Transportation* 39, 539-564, 2012.
81. Coelho, L.C., Cordeau, J.-F., Laporte, G., “The Inventory-Routing Problem with Transshipment”, *Computers & Operations Research* 39, 2537-2548, 2012.
82. Cordeau, J.-F., Maischberger, M., “A Parallel Iterated Tabu Search Heuristic for Vehicle Routing Problems”, *Computers & Operations Research* 39, 2033-2050, 2012.
83. Moccia, L., Cordeau, J.-F., Laporte, G., “An Incremental Tabu Search Heuristic for the Generalized Vehicle Routing Problem with Time Windows”, *Journal of the Operational Research Society* 63, 232-244, 2012.
84. Crevier, B., Cordeau, J.-F., Savard, G., “Integrated Operations Planning and Revenue Management for Rail Freight Transportation”, *Transportation Research Part B* 46, 100-119, 2012.
85. Contreras, I., Cordeau, J.-F., Laporte, G., “Benders Decomposition for Large-Scale Uncapacitated Hub Location”, *Operations Research* 59, 1477-1490, 2011.
86. Perugia, A., Moccia, L., Cordeau, J.-F., Laporte, G., “Designing a Home-to-Work Bus Service in a Metropolitan Area”, *Transportation Research Part B* 45, 1710-1726, 2011.
87. Cordeau, J.-F., Laporte, G., Moccia, L., Sorrentino, G., “Optimizing Yard Assignment in an Automotive Transshipment Terminal”, *European Journal of Operational Research* 215, 149-160, 2011.
88. Bisailon, S., Cordeau, J.-F., Laporte, G., Pasin, F., “A Large Neighbourhood Search Heuristic for the Aircraft and Passenger Recovery Problem”, *4OR* 9, 139-157, 2011.
89. Contreras, I., Cordeau, J.-F., Laporte, G., “Stochastic Uncapacitated Hub Location”, *European Journal of Operational Research* 212, 518-528, 2011.
90. Heilporn, G., Cordeau, J.-F., Laporte, G., “An Integer L-Shaped Algorithm for the Dial-a-Ride Problem with Stochastic Customer Delays”, *Discrete Applied Mathematics* 159, 883-895, 2011.
91. Contreras, I., Cordeau, J.-F., Laporte, G., “The Dynamic Uncapacitated Hub Location Problem”, *Transportation Science* 45, 18-32, 2011.
92. Moccia, L., Cordeau, J.-F., Laporte, G., Ropke, S., Valentini, M.P., “Modeling and Solving a Multimodal Routing Problem with Flexible-Time and Scheduled Services”, *Networks* 57, 53-68, 2011.
93. Erdogan, G., Cordeau, J.-F., Laporte, G., “A Branch-and-Cut Algorithm for Solving the Non-Preemptive Capacitated Swapping Problem”, *Discrete Applied Mathematics* 158, 1599-1614, 2010.
94. Cordeau, J.-F., Laporte, G., Pasin, F., Ropke, S., “Scheduling Technicians and Tasks in a Telecommunications Company”, *Journal of Scheduling* 13, 393-409, 2010.
95. Heilporn, G., Cordeau, J.-F., Laporte, G., “The Delivery Man Problem with Time Windows”, *Discrete Optimization* 7, 269-282, 2010.
96. Wen, M., Cordeau, J.-F., Laporte, G., Larsen, J., “The Dynamic Multi-Period Vehicle Routing Problem”, *Computers & Operations Research* 37, 1615-1623, 2010.
97. Rekik, M., Cordeau, J.-F., Soumis, F., “Implicit Shift Scheduling with Multiple Breaks and Work Stretch Duration Restrictions”, *Journal of Scheduling* 13, 49-75, 2010.
98. Cordeau, J.-F., Iori, M., Laporte, G., Salazar-González, J.-J., “A Branch-and-Cut Algorithm for the Pickup and Delivery Traveling Salesman Problem with LIFO Loading”, *Networks* 55, 46-59, 2010.
99. Cordeau, J.-F., Dell'Amico, M., Iori, M., “Branch-and-Cut for the Pickup and Delivery Traveling Salesman Problem with FIFO Loading”, *Computers & Operations Research* 37, 970-980, 2010.
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### **Supervision of graduate students**

#### *Degrees completed*

1. Matthieu Gruson (Ph.D.), HEC Montréal, “Modélisation et résolution de problèmes de planification de production et de distribution à trois niveaux”, 2020, J.-F. Cordeau, R. Jans.
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56. Julie Paquette (M.Sc.), HEC Montréal, “Une étude comparative de divers modèles pour le problème de transport à la demande”, 2006, J.-F. Cordeau, G. Laporte.
57. Geneviève Parent (M.Sc.), HEC Montréal, “Analyse de la demande de nouveaux médicaments génériques”, 2006, J.-F. Cordeau, S. Landry.
58. Julie Rosato (M.Sc.), HEC Montréal, “L'implication des transporteurs routiers dans leurs relations avec les acteurs de la chaîne logistique”, 2006, J.-F. Cordeau, J. Roy.
59. Walid Siala (M.Sc.), HEC Montréal, “Un algorithme génétique pour le problème d'ordonnancement de voitures”, 2006, J.-F. Cordeau, F. Pasin.
60. Catherine Gingras (M.Sc.), HEC Montréal, “Optimisation du transport dans l'industrie forestière”, 2005, J.-F. Cordeau, G. Laporte.
61. Anne-Marie Walach (M.Sc.), HEC Montréal, “Optimisation de la distribution de produits alimentaires”, 2004, J.-F. Cordeau, G. Laporte.
62. Vincent Raymond (M.Sc.), HEC Montréal, “Gestion de la mission de satellites d'observation de la Terre”, 2004, J.-F. Cordeau, G. Laporte.
63. Karine Lacerte (M.Sc.), HEC Montréal, “Optimisation simultanée des tailles de lots et de l'ordonnancement de la production”, 2004, J.-F. Cordeau, G. Laporte.
64. Marie-Sandrine Millet (M.Sc.), HEC Montréal, “Comparaison par l'optimisation de différents systèmes de réapprovisionnement des unités de soins en fournitures médicales”, 2004, J.-F. Cordeau, S. Landry.
65. Nathalie Ouellet (M.Sc.), HEC Montréal, “L'utilisation de l'information en temps réel dans l'industrie du transport routier des marchandises”, 2004, J.-F. Cordeau, J. Roy.
66. Stéphanie Gillenwater (M.Sc.), HEC Montréal, “Impacts de la réglementation sur les heures de conduite”, 2004, J.-F. Cordeau, G. Laporte.
67. Rémy Monfet (M.Sc.), HEC Montréal, “Localisation de centres de tri de colis”, 2004, J.-F. Cordeau, G. Laporte.
68. Ghislain Gagné (M.Sc.), HEC Montréal, “L'amplification de la variabilité de la demande: simulation d'un réseau de distribution”, 2004, J.-F. Cordeau, S. Landry.
69. Ève Lacasse-Guay (M.Sc.), HEC Montréal, “Une application de la programmation stochastique à la conception de réseaux logistiques”, 2003, J.-F. Cordeau.
70. Dominic Paquette (M.Sc.), HEC Montréal, “Un problème de localisation et de tournées se posant dans la livraison du courrier”, 2003, J.-F. Cordeau, G. Laporte.
71. Robert Morisset (M.Sc.), HEC Montréal, “Une comparaison de deux méthodes de résolution pour le problème combiné de localisation et de tournées de véhicules avec fenêtres de temps”, 2002, J.-F. Cordeau, J. Desrosiers.
72. Benoît Crevier (M.Sc.), HEC Montréal, “Le problème de tournées de véhicules multi-dépôts avec possibilités d'interpinage”, 2002, J.-F. Cordeau, G. Laporte.
73. Guillaume Hamer-Lavoie (M.Sc.), HEC Montréal, “Conception de réseaux de distribution avec localisation, affectation et stocks”, 2002, J.-F. Cordeau.
74. Yolaine Cohen-Scali (M.Sc.), HEC Montréal, “Itinéraires d'autobus scolaires avec flexibilité sur les horaires des écoles”, 2002, J.-F. Cordeau, J. Desrosiers.
75. Karine Cousineau-Ouimet (M.Sc.), HEC Montréal, “Une méthode de recherche avec tabous pour le

problème de tournées de véhicules avec contraintes de stocks”, 2002, J.-F. Cordeau, G. Laporte.

### *Students under supervision*

1. Khalid Amghar (Ph.D.), Université de Montréal, J.-F. Cordeau, B. Gendron.
2. Nicolas Cabrera Malik (Ph.D.), HEC Montréal, J.-F. Cordeau, J. Mendoza.
3. Ali Kermani (Ph.D.), HEC Montréal, J.-F. Cordeau, R. Jans.
4. Duy Tan Nguyen (Ph.D.), HEC Montréal, Y. Adulyasak, J.-F. Cordeau.
5. Charly Robinson La Rocca (Ph.D.), Université de Montréal, J.-F. Cordeau, E. Frejinger.
6. Sina Shahnejat Bushehri (Ph.D.), HEC Montréal, J.-F. Cordeau, R. Jans.
7. Koray Yenil (Ph.D.), HEC Montréal, J.-F. Cordeau, R. Jans.

### **Other professional activities**

- Area Editor for *INFOR*
- Area Editor for *Transportation Science*
- Member of the Editorial Board of *Computers & Operations Research*
- Member of the Editorial Advisory Board of *Cleaner Logistics and Supply Chain*
- Member of the Scientific Council of *Transportation Research Part C: Emerging Technologies*
- Member of the Advisory Board of *International Journal of Automation and Logistics*
- Guest Editor (with C. Archetti and G. Desaulniers), special issue of the *EURO Journal on Transportation and Logistics* “Combining optimization and machine learning: Application in vehicle routing, network design and crew scheduling”, 2021.
- Member of the Scientific Committee, 2023 INFORMS Transportation and Logistics Society Conference, Chicago, July 2023.
- Member of the Program Committee, 14th Metaheuristics International Conference (MIC 2022), Ortigia-Syracuse, Italy, July 2022.
- Member of the Scientific Committee, Eleventh Triennial Symposium on Transportation Analysis (TRISTAN XI), Mauritius, June 2022.
- Member of the Program Committee, Odysseus 2021 – Eighth International Workshop on Freight Transportation and Logistics, Tangier, Morocco, May 2022.
- Member of the Scientific Committee, Transportation Science and Logistics Workshop, online conference, July 2021.
- Member of the Program Committee, Metaheuristics International Conference, Cartagena, Colombia, July 2019.
- Member of the Scientific Committee, Workshop of the Transportation Science and Logistics Society of INFORMS, Vienna, July 2019.
- Member of the Scientific Committee, Tenth Triennial Symposium on Transportation Analysis (TRISTAN X), Hamilton Island, Australia, June 2019.
- Member of the Scientific Committee, ISMP 2018 – 23rd International Symposium on Mathematical Programming, Bordeaux, France, July 2018.
- Member of the Program Committee, Odysseus 2018 – Seventh International Workshop on Freight Transportation and Logistics, Cagliari, Italy, June 2018.

- Member of the Scientific Committee, First INFORMS Transportation Science and Logistics Society Conference, Chicago, July 2017.
- Cluster Chair (with I. Contreras), “Discrete Optimization in Logistics and Transportation”, 21<sup>st</sup> Conference of the International Federation of Operational Research Societies, Québec City, July 2017.
- Member of the Program Committee, Fifth INFORMS Transportation Science and Logistics Society Workshop, Atlanta, June 2016.
- Member of the International Scientific Committee, Ninth Triennial Symposium on Transportation Analysis (TRISTAN IX), Oranjestad, Aruba, June 2016.
- Cluster Chair, “Transportation and Logistics”, Conference of the Canadian Operational Research Society, Banff, May-June 2016
- Co-organizer (with R. Jans), International Workshop on Lot Sizing, Montreal, Canada, August 2015.
- Tutorial Co-chair, CORS/INFORMS International Conference, Montreal, Canada, June 2015
- Member of the International Scientific Committee, Fourth Annual Conference of the EURO Working Group on Vehicle Routing and Logistics Optimization (VeRoLog), Vienna, Austria, June 2015
- Member of the Scientific Committee, Odysseus – Sixth International Workshop on Freight Transportation and Logistics, Ajaccio, France, June 2015
- Member of the International Advisory Committee, Third Annual Conference of the EURO Working Group on Vehicle Routing and Logistics Optimization (VeRoLog), Oslo, Norway, June 2014
- Cluster Chair, “Transportation and Logistics”, Conference of the Canadian Operational Research Society, Ottawa, May 2014
- Member of the International Scientific Committee, 43<sup>rd</sup> International Conference on Computers & Industrial Engineering, Hong Kong, October 2013
- Member of the International Scientific Committee, Eighth Triennial Symposium on Transportation Analysis (TRISTAN VIII), San Pedro de Atacama, Chile, June 2013
- Cluster Chair, “Transportation and Logistics”, Conference of the Canadian Operational Research Society Vancouver, May 2013
- Member of the Program Committee, ORP3 – Operation Research Peripatetic Postgraduate Programme, Linz, Austria, July 2012
- Member of the Scientific Committee, Odysseus – Fifth International Workshop on Freight Transportation and Logistics, Mykonos, Greece, May 2012
- Cluster Chair, “Transportation and Logistics”, Conference of the Canadian Operational Research Society, St-John’s, Newfoundland, May-June 2011
- Co-organizer (with D. Quadri, M. Gendreau and F. Semet), Network Optimization Workshop, Ajaccio, France, August 2010
- Member of the Scientific Committee, Tristan VII, Tromsø, Norway, June 2010
- Co-organizer (with T.G. Crainic and G. Laporte), Spring School on Supply Chain and Transportation Network Design, Montreal, May 2010
- Member of the Scientific Committee, Odysseus – Fourth International Workshop on Freight Transportation and Logistics, Izmir, Turkey, May 2009
- Member of the Program Committee, 7<sup>th</sup> Metaheuristics International Conference, Montreal, June 2007
- Co-organizer (with G. Laporte), Spring School on Vehicle Routing, Montreal, May 2006
- Co-organizer (with B. Gendron and V. Verter), Joint Conference of the Canadian Operational Research Society and Optimization Days 2006, Montreal, May 2006
- Member of the Program Committee, 6<sup>th</sup> Metaheuristics International Conference, Vienna, August 2005
- Co-organizer (with G. Laporte), Spring School on Transportation, Montreal, May 2004



- Co-organizer (with B. Gendron), Optimization Days, Montreal, May 2004
- Co-organizer (with G. Laporte), Spring School on Logistics and Distribution Management, Montreal, May 2002
- Co-organizer (with B. Gendron), Optimization Days, Montreal, May 2002
- Member of the Interuniversity Research Center on Enterprise Networks, Logistics and Transportation (CIRRELT)
- Member of the Groupe d'études et de recherche en analyse des décisions (GERAD)
- Member of the Institute for Operations Research and the Management Sciences (INFORMS)
- Consultant for AQL Management Consulting, Cascades Récupération, Centre National d'Études Spatiales (France), CIM – Conseil en immobilisation & management, EMCO Limitée, Groupe GCL, Hydro-Québec, Nokia (Finland), Sky Service Aviation.

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