Oleg A. Prokopyev

CURRICULUM VITAE

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Academic Positions

- ◇ Department of Business Administration, University of Zurich
  Professor of Quantitative Business Administration, 2023–present
- ◇ Department of Industrial Engineering, University of Pittsburgh
  Adjunct Professor, 2024–present; Professor, 2017–2023; Associate Professor, 2012–2017; Assistant Professor, 2006–2012

Education

- ◇ Ph.D. in Industrial and Systems Engineering (2006)
  Department of Industrial and Systems Engineering, University of Florida, Gainesville, Florida
- ◇ B.S. (2000) and M.S. (2002), Applied Mathematics and Physics
  Moscow Institute of Physics and Technology (MIPT), Moscow, Russia

Honors and Awards

- ◇ *IISE Transactions* Service Award, 2026
- ◇ Honorable Mention, *Journal of Global Optimization* Best Paper Award, 2023
- ◇ Best Publication Award in Environment and Sustainability by the INFORMS Section on Energy, Natural Resources, and the Environment (ENRE), 2019
- ◇ U.S. Air Force Office of Scientific Research, Young Investigator Research Program (YIP) Award, 2010
- ◇ U.S. Air Force Summer Faculty Fellowship, 2010, 2011, 2013, 2014, 2021, 2022
- ◇ William Pierskalla Best Paper Award by the Health Applications Society of INFORMS, 2004
- ◇ Graduate Student Award for Excellence in Research, Department of Industrial and Systems Engineering, University of Florida, 2004 and 2005

Publications

Refereed journal papers

1. E. Clemente*, O.A. Prokopyev, "On Local Search in Bilevel Mixed-Integer Linear Programming," *Mathematical Programming*, accepted for publication, 2026.
2. E.L. Gibbs, T. Schroth, L.M. Maillart, O.A. Prokopyev, "Optimal mobile condition-based maintenance with adaptive outsourcing," *Optimization Letters*, accepted for publication, 2026.
3. L.M. Villa-Zapata, J. Choi, T. Lagos*, O.A. Prokopyev, J. Gan, L. Ntaimo, "Mean-Risk Stochastic Integer Programming Approach for Integrated Fuel Treatment and Wildfire Response Planning with Endogenous Uncertainty," *Journal of Global Optimization*, accepted for publication, 2026.
4. O.A. Prokopyev, T.K. Ralphs, "On the Complexity of Finding Locally Optimal Solutions in Bilevel Linear Optimization," *Operations Research*, Vol. 74/4 (2026), pp. 1983–1994.

*Denotes one of my PhD students (advised or co-advised).

5. Y. Hou*, J.S. Borrero, O.A. Prokopyev, "On strong duality based reformulations for a class of bilevel linear programs," *Operations Research Letters*, Vol. 68 (2026), 107485.

6. S.S. Ketkov, O.A. Prokopyev, "On a Class of Interdiction Problems with Partition Matroids: Complexity and Polynomial-Time Algorithms," *INFORMS Journal on Computing*, Vol. 38/3 (2026), pp. 998–1015.

7. S.S. Ketkov, O.A. Prokopyev, "Data-driven interdiction with asymmetric cost uncertainty: a distributionally robust optimization approach," *Computers & Operations Research*, Vol. 194 (2026), 107533.

8. J. Choi, T. Lagos*, B. Segundo, L.M. Villa-Zapata, O.A. Prokopyev, L. Ntaimo, C.W. Stripling, J. Gan, "Landscape-level effectiveness of fuel treatments in a forest-dominated ecosystem in the Southern United States," *PLOS One*, Vol. 21/2 (2026), e0342049.

9. A. Veremyev, V. Boginski, E.L. Pasiliao, O.A. Prokopyev, "Ultra-small world detection in networks: subgraphs with prescribed distance distributions," *Computational Optimization and Applications*, Vol. 92/3 (2025), pp. 1069–1121.

10. Y. Blokhin, S. Butenko, M. Makovenko, P. Momcilovic, O.A. Prokopyev, "An Implicit Enumeration Approach for Maximum Ratio Clique Relaxations," *Networks*, Vol. 86/3 (2025), pp. 241–262.

11. H. Zhong, F.M. Pajouh, S. Butenko, O.A. Prokopyev, "On Interdicting Dense Clusters in a Network," *INFORMS Journal on Computing*, Vol. 37/4 (2025), pp. 1069–1086.

12. S. Nadi*, T. Lee, O.A. Prokopyev, "The inverse optimal value problem for linear fractional programming," *Operations Research Letters*, Vol. 59 (2025), 107251.

13. T. Lagos*, J. Choi, B. Segundo, J. Gan, L. Ntaimo, O.A. Prokopyev, "Bilevel optimization approach for fuel treatment planning," *European Journal of Operational Research*, Vol. 320/1 (2025), pp. 205–218.

14. A. Ostroski, O.A. Prokopyev, V. Khanna, "Tracing Nitrogen Flows Associated with Beef Supply Chains: A Consumption-Based Assessment," *Environmental Science & Technology*, Vol. 58/32 (2024), pp. 14214–14224.

15. T. Lagos*, O.A. Prokopyev, A. Veremyev, "Finding groups with maximum betweenness centrality via integer programming with random path sampling," *Journal of Global Optimization*, Vol. 88/1 (2024), pp. 199–232.

16. S. Sanoubar*, B. de Jonge, L.M. Maillart, O.A. Prokopyev, "Optimal Condition-Based Maintenance via a Mobile Maintenance Resource," *Transportation Science*, Vol. 57/6 (2023), pp. 1646–1670.

17. T. Lagos*, O.A. Prokopyev, "On Complexity of Finding Strong-Weak Solutions in Bilevel Linear Programming," *Operations Research Letters*, Vol. 51/6 (2023), pp. 612–617.

18. J. Lamperski, O.A. Prokopyev, L.G. Wrabetz*, "Min-max-min optimization with smooth and strongly convex objectives," *SIAM Journal on Optimization*, Vol. 33/3 (2023), pp. 2435–2456.

19. X. Shi*, O.A. Prokopyev, T.K. Ralphs, "Mixed Integer Bilevel Optimization with a k-optimal Follower: A Hierarchy of Bounds," *Mathematical Programming Computation*, Vol. 15/1 (2023), pp. 1–51.

20. D. Matsypura, A. Veremyev, E.L. Pasiliao, O.A. Prokopyev, "Finding the most degree-central walks and paths in a graph: exact and heuristic approaches," *European Journal of Operational Research*, Vol. 308/3 (2023), pp. 1021–1036.

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22. Q. Qiu, L.M. Maillart, O.A. Prokopyev, L. Cui, "Optimal Condition-Based Mission Abort Decisions," *IEEE Transactions on Reliability*, Vol. 72/1 (2023), pp. 408–425.

23. H. Zhong, F.M. Pajouh, O.A. Prokopyev, "On designing networks resilient to clique blockers," *European Journal of Operational Research*, Vol. 307/1 (2023), pp. 20–32.

24. J. Yang*, X. Shi*, O.A. Prokopyev, "Exact solution approaches for a class of bilevel fractional programs," *Optimization Letters*, Vol. 17/1 (2023), pp. 191–210.

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27. X. Shi*, O.A. Prokopyev, B. Zeng, "Sequence independent lifting for a set of submodular maximization problems," *Mathematical Programming*, Vol. 196/1-2 (2022), pp. 69–114.

28. J.S. Borrero*, O.A. Prokopyev, D. Saure, "Learning in Sequential Bilevel Linear Programming," *INFORMS Journal on Optimization*, Vol. 4/2 (2022), pp. 174–199.

29. S. Han, A. Gomez, O.A. Prokopyev, "Fractional 0-1 programming and submodularity," *Journal of Global Optimization*, Vol. 84/1 (2022), pp. 77–93.

    ⋆ Honorable Mention, *Journal of Global Optimization* Best Paper Award, 2023 (for 2022 publications)

30. A. Veremyev, V. Boginski, E.L. Pasiliao, O.A. Prokopyev, "On integer programming models for the maximum 2-club problem and its robust generalizations in sparse graphs," *European Journal of Operational Research*, Vol. 297/1 (2022), pp. 86–101.

31. C.P. Gillen*, A. Veremyev, O.A. Prokopyev, E.L. Pasiliao, "Fortification Against Cascade Propagation Under Uncertainty," *INFORMS Journal on Computing*, Vol. 33/4 (2021), pp. 1481–1499.

32. J. Yang*, J.S. Borrero*, O.A. Prokopyev, D. Saure, "Sequential Shortest Path Interdiction with Incomplete Information and Limited Feedback," *Decision Analysis*, Vol. 18/3 (2021), pp. 218–244.

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34. N. Vora‡, C. Gillen*, O.A. Prokopyev, V. Khanna, "Rewiring the Domestic U.S. Rice Trade for Reducing Irrigation Impacts–Implications for the Food-Energy-Water Nexus," *ACS Sustainable Chemistry & Engineering*, Vol. 9/28 (2021), pp. 9188–9198.

35. A. Gomez, O.A. Prokopyev, "A Mixed-Integer Fractional Optimization Approach to Best Subset Selection," *INFORMS Journal on Computing*, Vol. 33/2 (2021), pp. 551–565.

36. E. Mehmanchi*, A. Gomez, O.A. Prokopyev, "Solving a class of feature selection problems via fractional 0–1 programming," *Annals of Operations Research*, Vol. 303/1 (2021), pp. 265–295.

37. G.L. Zenarosa*, O.A. Prokopyev, E.L. Pasiliao, "On exact solution approaches for bilevel quadratic 0–1 knapsack problem," *Annals of Operations Research*, Vol. 298/1-2 (2021), pp. 555–572.

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‡Denotes PhD students, on whose Dissertation Committee I served.

41. H. Zhong, F.M. Pajouh, O.A. Prokopyev, "Finding influential groups in networked systems: The most degree-central clique problem," *OMEGA*, Vol. 101 (2021), 102262 (13 pages).

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44. S. Rebennack, O.A. Prokopyev, B. Singh, "Two-stage stochastic minimum s-t cut problems: Formulations, complexity and decomposition algorithms," *Networks*, Vol. 75/3 (2020), pp. 235–258.

45. J. Kim, A. Veremyev, V. Boginski, O.A. Prokopyev, "On the maximum small-world subgraph problem," *European Journal of Operational Research*, Vol. 280/3 (2020), pp. 818–831.

46. S.S. Ketkov, O.A. Prokopyev, "On greedy and strategic evaders in sequential interdiction settings with incomplete information," *OMEGA*, Vol. 92 (2020), 102161 (15 pages).

47. O. Tavaslioglu*, O.A. Prokopyev, A.J. Schaefer, "Solving Stochastic and Bilevel Mixed-Integer Programs via a Generalized Value Function," *Operations Research*, Vol. 67/6 (2019), pp. 1659–1677.

48. J.S. Borrero*, O.A. Prokopyev, P. Krokhmal, "Optimization of Cascading Processes in Arbitrary Networks with Stochastic Interactions," *IEEE Transactions on Network Science and Engineering*, Vol. 6/4 (2019), pp. 773–787.

49. E. Mehmanchi*, A. Gomez, O.A. Prokopyev, "Fractional 0–1 programs: links between mixed-integer linear and conic quadratic formulations," *Journal of Global Optimization*, Vol. 75/2 (2019), pp. 273–339.

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51. J.S. Borrero*, O.A. Prokopyev, D. Saure, "Sequential Interdiction with Incomplete Information and Learning," *Operations Research*, Vol. 67/1 (2019), pp. 72–89.

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53. D. Matsypura, A. Veremyev, O.A. Prokopyev, E.L. Pasiliao, "On exact solution approaches for the longest induced path problem," *European Journal of Operational Research*, Vol. 278/2 (2019), pp. 546–562.

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55. M.H. Zare*, J.S. Borrero*, B. Zeng, O.A. Prokopyev, "A note on linearized reformulations for a class of bilevel linear integer problems," *Annals of Operations Research*, Vol. 272/1-2 (2019), pp. 99–117.

56. A. Khojandi*, L.M. Maillart, O.A. Prokopyev, M.S. Roberts, and S.F. Saba, "Dynamic Abandon/Extract Decisions for Failed Cardiac Leads," *Management Science*, Vol. 64/2 (2018), pp. 633–651.

57. D. Matsypura, O.A. Prokopyev, A. Zahar, "Wildfire fuel management: Network-based models and optimization of prescribed burning," *European Journal of Operational Research*, Vol. 264/2 (2018), pp. 774–796.

    ⋆ The 2019 Best Publication Award in Environment and Sustainability by the INFORMS Section on Energy, Natural Resources, and the Environment (ENRE)

58. O.Y. Ozaltin*, O.A. Prokopyev, A.J. Schaefer, "Optimal Design of the Seasonal Influenza Vaccine with Manufacturing Autonomy," *INFORMS Journal on Computing*, Vol. 30/2 (2018), pp. 371–387.

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63. C. Gillen*, A. Veremyev, O.A. Prokopyev, E.L. Pasiliao, "Robustness of solutions to critical node detection problems with imperfect data: a computational study," *Optimization Methods and Software*, Vol. 32/2 (2017), pp. 250–273.

64. J.S. Borrero*, C. Gillen*, O.A. Prokopyev, "Fractional 0-1 programming: applications and algorithms," *Journal of Global Optimization*, Vol. 69/1 (2017), pp. 255–282.

65. K. He*, L.M. Maillart, O.A. Prokopyev, "Optimal planning of unpunctual preventive maintenance," *IISE Transactions*, Vol. 49/2 (2017), pp. 127–143.

66. V. Stozhkov, V. Boginski, O.A. Prokopyev, E.L. Pasiliao, "A simple greedy heuristic for linear assignment interdiction," *Annals of Operations Research*, Vol. 249/1-2 (2017), pp. 39–53.

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71. J.S. Borrero*, O.A. Prokopyev, D. Saure, "Sequential Shortest Path Interdiction with Incomplete Information," *Decision Analysis*, Vol. 13/1 (2016), pp. 68–98.

    ⋆ Cited in "Trends in *Decision Analysis*: A Reflection on the First 20 Years of the Journal" by V.M. Bier, *Decision Analysis*, Vol. 21/1 (2024), pp. 1–3.

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77. A.C. Trapp*, O.A. Prokopyev, "A note on constraint aggregation and value functions for two-stage stochastic integer programs," *Discrete Optimization*, Vol. 15 (2015), pp. 37–45.

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79. G. Degirmenci‡, J.P. Kharoufeh, O.A. Prokopyev, "On Optimal Clustering in Mobile Wireless Sensor Networks Under Uncertainty," *Military Operations Research*, Vol. 20/2 (2015), pp. 19–33.

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Edited books & proceedings

1. I. Bychkov, V.A. Kalyagin, P.M. Pardalos, O.A. Prokopyev (Editors), "Network Algorithms, Data Mining, and Applications: NET, Moscow, Russia, May 2018," Springer Proceedings in Mathematics & Statistics, Vol. 315, Springer, 2020.

2. V.A. Kalyagin, P.M. Pardalos, O.A. Prokopyev, I. Utkina (Editors), "Computational Aspects and Applications in Large-Scale Networks: NET 2017, Nizhny Novgorod, Russia, June 2017," Springer Proceedings in Mathematics & Statistics, Vol. 247, Springer, 2018.

3. V.A. Kalyagin, A. Nikolaev, P.M. Pardalos, O.A. Prokopyev (Editors), "Models, Algorithms, and Technologies for Network Analysis: NET 2016, Nizhny Novgorod, Russia, May 2016," Springer Proceedings in Mathematics & Statistics, Vol. 197, Springer, 2017.

4. D. Grundel, R. Murphey, P. Pardalos, O.A. Prokopyev (Editors), "Cooperative Networks: Control and Optimization," Series: New Dimensions in Networks, Edward Elgar Publishing, 2008.

5. D. Grundel, R. Murphey, P. Pardalos, O.A. Prokopyev (Editors), "Cooperative Systems: Control and Optimization," Series: Lecture Notes in Economics and Mathematical Systems, Vol. 588, Springer, 2007.

6. W.W. Hager, S.-J. Huang, P.M. Pardalos, O.A. Prokopyev (Editors), "Multiscale Optimization Methods and Applications," Series: Nonconvex Optimization and Its Applications, Vol. 82, Springer, 2006.

Chapters in edited books

1. O.V. Shylo, O.A. Prokopyev, "Restart Strategies," in *Handbook of Heuristics* (R. Martí, P.M. Pardalos, M.G.C. Resende, eds.), Springer (2018), pp. 205–220.

2. C.P. Gillen*, D. Matsypura, O.A. Prokopyev, "Operations Research Techniques in Wildfire Fuel Management," in *Optimization Methods and Applications: In Honor of Ivan V. Sergienko's 80th Birthday*, (S. Butenko, P.M. Pardalos, V. Shylo, eds.), Springer (2017), pp. 119–135.

3. O.A. Prokopyev, "Fractional Zero-One Programming," in *Encyclopedia of Optimization* (C. Floudas, P.M. Pardalos, eds.), Springer (2009), pp. 1091–1094.

4. C. Ihrig, M. Baz‡, J. Stander, R. R. Hoare, B. A. Norman, O.A. Prokopyev, B. Hunsaker, and A. K. Jones, "Greedy Algorithms for Mapping onto a Coarse-grained Reconfigurable Fabric," in *Advances in Greedy Algorithms* (W. Bednorz, ed.), In-Tech (2008), pp. 193–222.

5. O.A. Prokopyev, V. Boginski, W. Chaovalitwongse, P.M. Pardalos, J.C. Sackellares, P.R. Carney, "Network-based Techniques in EEG Data Analysis and Epileptic Brain Modeling," in *Data Mining in Biomedicine* (P.M. Pardalos, V. Boginski, A. Vazacopoulos, eds.), Springer (2007), pp. 559–573.

6. W. Chaovalitwongse, P.M. Pardalos, L.D. Iasemidis, W. Suharitdamrong, D.-S. Shiau, L.K. Dance, O.A. Prokopyev, V.L. Boginski, P.R. Carney, J.C. Sackellares, "Data Mining in EEG: Application to Epileptic Brain Disorders," in *Data Mining in Biomedicine* (P.M. Pardalos, V. Boginski, A. Vazacopoulos, eds.), Springer (2007), pp. 459–481.

7. P.M. Pardalos, O.A. Prokopyev, S. Busygin, "Continuous Approaches for Solving Discrete Optimization Problems," in *Handbook on Modelling for Discrete Optimization* (G. Appa, L. Pitsoulis, H.P. Williams, eds.), pp. 39–60, Springer, 2006.

8. P.M. Pardalos, V.L. Boginski, O.A. Prokopyev, W. Suharitdamrong, P.R. Carney, W. Chaovalitwongse, A. Vazacopoulos, "Optimization Techniques in Medicine," in *Essays and Surveys in Global Optimization* (C. Audet, P. Hansen, G. Savard, eds.), Springer, pp. 211–232, 2005.

9. V. Boginski, S. Butenko, P.M. Pardalos, O.A. Prokopyev, "Collaboration Networks in Sports," in *Economics, Management and Optimization in Sports* (S. Butenko, J. Gil-Lafuente, P.M. Pardalos, eds.), Springer, pp. 265–277, 2004.

Refereed conference proceedings

1. J. Lamperski, H. Yang*, O.A. Prokopyev, "Simple Randomized Rounding for Max-Min Eigenvalue Augmentation," in Proceedings of the *42nd International Conference on Machine Learning* (ICML 2025), PMLR Vol. 267, pp. 32406-32419.

2. X. Shi*, O.A. Prokopyev, B. Zeng, "Sequence independent lifting for the set of submodular maximization problem," in Proceedings of the *21st International Conference on Integer Programming and Combinatorial Optimization*, IPCO 2020 (D. Bienstock, G. Zambelli, eds.), pp. 378–390.

3. O.V. Shylo, L. Luangkesorn, O.A. Prokopyev, J. Rajgopal, A.J. Schaefer, "Managing patient backlog in a surgical suite that uses a block-booking scheduling system," Proceedings of the *2011 Winter Simulation Conference*, pp. 1319–1329.

4. P. Velagapudi, O.A. Prokopyev, K. Sycara, P. Scerri, "Analyzing the Performance of Randomized Information Sharing," Proceedings of the *8th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2009),* Vol. 2, pp. 821–828.

5. P. Velagapudi, O.A. Prokopyev, P. Scerri, K. Sycara, "A Token-Based Approach to Sharing Beliefs in a Large Multiagent Team," in *Optimization and Cooperative Control Strategies* (M.J. Hirsch, C. Commander, P.M. Pardalos, and R. Murphey, eds.), Proceedings of the 8th International Conference on Cooperative Control and Optimization, Lecture Notes in Control and Information Sciences, Vol. 381, Springer (2009), pp. 417–429.

6. P. Velagapudi, O.A. Prokopyev, K. Sycara, P. Scerri, "Maintaining Shared Belief in a Large Multiagent Team," Proceedings of the *10th International Conference on Information Fusion*, 2007, pp. 1–8.

Other

1. T.K. Ralphs, O.A. Prokopyev, "On Some Interesting Aspects of Mixed Integer Bilevel Optimization Problems," *OPTIMA: Mathematical Optimization Society Newsletter*, Issue 108, July 2026.

Doctoral Students

Graduated Ph.D. students

◇ Andrew C. Trapp, Ph.D. 2011
"On Solving Selected Nonlinear Integer Programming Problems in Data Mining, Computational Biology, and Sustainability"
  – Now: Professor & the Frank and Lillian Gilbreth Endowed Chair, Department of Industrial and Systems Engineering, Rensselaer Polytechnic Institute, USA

◇ Osman Y. Ozaltin, Ph.D. 2011 (co-advised with Dr. Andrew J. Schaefer)
"Optimal Design of the Annual Influenza Vaccine"
  ⋆ First place, 2013 Pritsker Doctoral Dissertation Award, Institute for Industrial & Systems Engineers (IISE)
  – Now: Professor, Edward P. Fitts Department of Industrial and Systems Engineering, North Carolina State University, USA

◇ Serdar Karademir, Ph.D. 2013
"Essays on Integer Programming in Military and Power Management Applications"
  – Now: Senior Applied Science Manager, Amazon

◇ Anahita Khojandi, Ph.D. 2014 (co-advised with Dr. Lisa M. Maillart)
"Optimizing Implanted Cardiac Device Follow-up Care"
  ⋆ Honorable Mention for the 2014 George B. Dantzig Dissertation Award (INFORMS)
  – Now: Professor & the Palmer Terrell Family Endowed Chair, Department of Industrial Engineering, University of Arkansas, USA

◇ Behdad Beheshti, Ph.D. 2014
"Efficient Resource Allocation in a Bilevel Hierarchy with Knapsack and Assignment Lower-Level Problems"
  – Now: SVP, Consumer Marketing Optimization, Bank of America

◇ Gabriel L. Zenarosa, Ph.D. 2016 (co-advised with Dr. Andrew J. Schaefer)
"Integrating Proactive and Reactive Decision-making in Surgery Scheduling"
  – Now: Associate Professor of Practice, College of Business, Stony Brook University, USA

◇ Kai He, Ph.D. 2016 (co-advised with Dr. Lisa M. Maillart)
"Optimal Maintenance Planning in Novel Settings"
  – Now: Senior Applied Scientist, Amazon

◇ Juan S. Borrero, Ph.D. 2017
"Sequential Bilevel Linear Programming with Incomplete Information and Learning"
  – Now: Associate Professor, Department of Industrial and Management Systems Engineering, University of South Florida

◇ M. Hosein Zare, Ph.D. 2018
"Bilevel Linear Programs: Generalized Models for the Lower-Level Reaction Set and Related Problems"
  – Now: Assistant Lecturer, Alberta School of Business, University of Alberta, Canada

◇ Onur Tavaslioglu, Ph.D. 2019 (co-advised with Dr. Andrew J. Schaefer)
"Stochastic Operating Room Scheduling under Emergency Arrivals with Integrated Block Assignments"
  – Now: Senior Software Engineer of Optimization, Fictiv

◇ Colin P. Gillen, Ph.D. 2019
"Critical Elements Detection in Dynamic Networks Under Uncertainty"
  ⋆ Runner-up, The INFORMS Computing Society (ICS) Student Paper Award, 2018

◇ Erfan Mehmanchi, Ph.D. 2019
"Reformulation Techniques and Solution Approaches for Fractional 0–1 Programs and Applications"
  – Now: Research Data Scientist, Meta

◇ Xueyu Shi, Ph.D. 2021 (co-advised with Dr. Bo Zeng)
"Exploiting Local Optimality and Strong Inequalities for Solving Bilevel Combinatorial and Submodular Optimization Problems"
  – Now: Software Engineer, Google

◇ Shadi Sanoubar, Ph.D. 2022 (co-advised with Dr. Lisa M. Maillart)
"Temporal and Spatial Considerations in Maintenance Planning"
  – Now: Data Scientist, PNC

◇ Jing Yang, Ph.D. 2022
"Essays on Interdiction Problems in Novel Settings"
  – Now: CEO/Co-founder, Kariz Intelligence

◇ Tomás Lagos, Ph.D. 2023
"Wildland Fuel Treatment Planning Optimization under Uncertainty"
  – Now: Lecturer, UNSW Business School, University of New South Wales (UNSW), Australia

◇ Luca Wrabetz, Ph.D. 2025 (co-advised with Dr. Jourdain Lamperski)
"Min-max-min Optimization Problems: Complexity & Approximations"
  – Now: Applied Scientist, DEFCON AI

Current Ph.D. students

◇ Haeseong Yang (co-advised with Dr. Jourdain Lamperski), Ph.D. expected 2027

◇ Sina Nadi (co-advised with Dr. Taewoo Lee), Ph.D. expected 2027

◇ Yiming Hou, Ph.D. expected 2027/2028

◇ Eneko Clemente, Ph.D. expected 2027/2028
  ⋆ Second Place, 2025 Jeff McGill Best Student Paper Prize, INFORMS Revenue Management and Pricing (RME) Section

Professional Service

Editorial roles

- ◇ Department Editor, *IISE Transactions* (Focused Issue: Operations Engineering & Analytics), 2013-present
- ◇ Editorial Board Member, *Journal of Global Optimization*, 2012-present
- ◇ Advisory Editor, book series *Springer Optimization and Its Applications*, 2023-present
- ◇ Co-Editor-in-Chief, *Optimization Letters* (2013–2026)
- ◇ Area Editor, *OMEGA* (2017-2019)
- ◇ Guest-Edited Special Issues:
  - ◇ Special Issue of *Journal of Global Optimization* dedicated to *the 60th birthday of Panos M. Pardalos* (O.A. Prokopyev and N.V. Sahinidis, Guest Editors), Volume 59, Issue 2-3, 2014
  - ◇ Special Issue of *Journal of Global Optimization* dedicated to *International Workshop on Multilevel Optimization: Algorithms and Applications* (A. Karakitsiou and O.A. Prokopyev, Guest Editors), Volume 38, Issue 4, 2007
  - ◇ Special Issue on *Systems Analysis, Optimization and Data Mining in Biomedicine* of *Optimization Methods and Software* (C. Floudas and O.A. Prokopyev, Guest Editors), Volume 22, Issue 1, 2007

Conference organization

- ◇ Organizing Committee Member, Conference on Optimization, Analytics, and Decisions in the Big Data Era (in honor of the 70th birthday of Panos M. Pardalos), Halkidiki, Greece, June 16–21, 2024
- ◇ Organizing Committee Member (Emerging Topics Sessions Co-Chair), INFORMS 2018 Annual Meeting, Phoenix, AZ, November 4-7, 2018
- ◇ Local Organization Committee, 22nd International Symposium on Mathematical Programming (ISMP), Pittsburgh, PA, July 12-17, 2015
- ◇ Organizing Committee Member, Conference on Optimization, Control and Applications in the Information Age (in honor of the 60th birthday of Panos M. Pardalos), Halkidiki, Greece, June 15-20, 2014
- ◇ Cluster Chair, "Optimization/Global Optimization," INFORMS 2012 Annual Meeting, Phoenix, AZ, October 14-17, 2012
- ◇ Cluster Chair, "Optimization/Global Optimization," INFORMS 2011 Annual Meeting, Charlotte, NC, November 13-16, 2011
- ◇ Co-organizer, 3rd Yalta Optimization Conference, Yalta, Ukraine, August 2-4, 2010
- ◇ Organizing Committee Member (Student Volunteers Coordinator), INFORMS 2006 Annual Meeting, Pittsburgh, PA, November 4-7, 2006

Professional society services

- ◇ Member, 2022 INFORMS Minority Issues Forum (MIF) Early Career Award Committee
- ◇ Co-Chair, 2018 INFORMS JFIG Best Paper Competition
- ◇ Chair, 2015 IISE Transactions (Focused Issue on Operations Engineering & Analytics) Best Paper Award committee
- ◇ Vice-Chair for Global Optimization, INFORMS Optimization Society, 2010-2012