

Negin Golrezaei

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Research Interests

Revenue Management, Machine Learning, Statistical Learning, Learning in Strategic Environments, Data-Driven Optimization, Approximation Algorithms, Mechanism/Auction Design, and Game Theory.

Employment

- **KDD Career Development Assistant Professor in Communications and Technology, MIT**, Cambridge, MA, July 2020 - present
 Affiliated with the Operations Research Center and the MIT-IBM Watson AI Lab
- **Assistant Professor, MIT**, Cambridge, MA, Sept. 2018 - present
 Affiliated with the Operations Research Center and the MIT-IBM Watson AI Lab
- **Postdoctoral Researcher, Google**, New York, NY, June 2017 - June 2018
- **Research Summer Intern, Google**, New York, NY, 2015 - 2016

Education

Ph.D., University of Southern California (USC), Los Angeles, CA
Operations Research, Data Sciences and Operations Department, Marshall School of Business

- Thesis Title: Efficient Policies and Mechanisms for Online Platforms 2012-2017
- Thesis Advisors: Hamid Nazerzadeh and Paat Rusmevichientong

M.Sc., Sharif University of Technology, Tehran, Iran
Electrical Engineering Department, Communications 2007-2009

B.Sc., Sharif University of Technology, Tehran, Iran
Electrical Engineering Department, Electronics 2003-2007

Grants, Awards, and Honors

1. MIT-IBM Watson AI Lab grant, (\$98k), 2022-2023.
2. Finalist for the INFORMS Social Media Analytics Best Student Paper Award for the paper “Fair Assortment Planning,” entrant: Qinyi Chen, 2022.
3. Finalist for the INFORMS IBM Best Student Paper Award Competition for the paper “Fair Assortment Planning,” entrant: Qinyi Chen, 2022.

4. Finalist for the INFORMS Data Mining Competition (General Track) for the paper “Learning Product Rankings Robust to Fake Users,” 2022.
5. Finalist for the INFORMS Data Mining Competition (General Track) for the paper “Online Learning via Offline Greedy Algorithms: Applications in Market Design and Optimization,” 2021.
6. Keynote speaker at the AdKDD workshop, 2021.
7. MIT Research Support Award (\$75k), 2021.
8. Young Investigator Award at the Office of Naval Research (ONR), “Finding a Needle in a Haystack: Utilizing Structures and Predictive Information in Online Optimization,” (\$510k), 2021-2024.
9. Google Research Award (\$30k), 2020.
10. MIT-IBM Watson AI Lab grant, (\$150k), 2020-2021.
11. MIT Indonesia seed grant, (\$25k), 2021.
12. MIT-Liberty Mutual Insurance Collaboration (an MIT Quest for Intelligence AI research initiative) grant, “Data-driven Schemes for Enhancing Customers Experience in the Insurance Industry,” (\$325k), 2020-2022.
13. Junior faculty research assistance grant for the proposal, “Online Combinatorial Decision-Making,” 2020.
14. Finalist for Service Science Best Paper Award for the paper “Dynamic Pricing for Heterogeneous Time-Sensitive Customers,” 2019.
15. Junior faculty research assistance grant for the proposal, “Data-Driven Auction Design in Online Marketplaces,” 2019.
16. Google Faculty Research Award (\$50k), 2018.
17. Elwood S. Buffa Doctoral Dissertation Award from the Decision Sciences Institute, 2018.
18. Finalist for the INFORMS Data Mining Competition for the paper “Boosted Second Price Auctions: Revenue Optimization for Heterogeneous Bidders,” 2018.
19. Dantzig Dissertation Award, 2017.
20. Revenue Management and Pricing Dissertation Award, 2017.
21. USC Ph.D. Achievement Award, USC, 2017.
22. CAMS Prize for excellence in research with a substantial mathematical component, USC, 2017.
23. Finalist for the POMS SCM College Best Student Paper Competition for the paper “Real-time Optimization of Personalized Assortments,” 2017.
24. Finalist for the MSOM Student Paper Competition for the paper “Real-time Optimization of Personalized Assortments,” 2016.
25. University Outstanding Teaching Award, USC, 2016.
26. Marshall Ph.D. Teaching Award, USC, 2016.
27. Provost Fellowship, USC, 2011-2013.

Journal Publications

1. N. Golrezaei, V. Manshadi, J. Schneider, and S. Sekar, "Learning Product Rankings Robust to Fake Users," **Operations Research**, forthcoming.
 - **Finalist for the 2022 INFORMS Data Mining Competition (General Track).**
 - A preliminary version appeared in the Proceedings of the 22nd ACM Conference on Economics and Computation (EC'21), virtual conference, July 20-22, 2021.
2. R. Niazadeh, N. Golrezaei, J. Wang, F. Susan, and A. Badanidiyuru, "Online Learning via Offline Greedy Algorithms: Applications in Market Design and Optimization," **Management Science**, forthcoming.
 - **Finalist for the 2021 INFORMS Data Mining Competition (General Track).**
 - A preliminary version appeared in the Proceedings of the 22nd ACM Conference on Economics and Computation (EC'21), virtual conference, July 20-22, 2021.
3. M. Derakhshan, N. Golrezaei, V. Manshadi, and V. Mirrokni, "Product Ranking on Online Platforms," **Management Science**, forthcoming.
 - A preliminary version appeared in the Proceedings of the 21st ACM Conference on Economics and Computation (EC'20), virtual conference, July 13-17, 2020.
 - Accepted for presentation at the MSOM Service SIG, 2018.
4. S. Balseiro, N. Golrezaei, M. Mahdian, V. Mirrokni, and J. Schneider, "Contextual Bandits with Cross-learning," **Mathematics of Operations Research**, forthcoming.
 - A preliminary version appeared in the Proceedings of the 33rd Conference on Neural Information Processing Systems (NeurIPS), Vancouver, Canada, Dec. 8-14, 2019.
5. M. Derakhshan, N. Golrezaei, and R. Paes Leme, "Linear Program based Approximation for Personalized Reserve Prices," **Management Science**, vol. 68, issue 3, pp. 1849-1864, 2022.
 - A preliminary version appeared in the Proceedings of the 20th ACM Conference on Economics and Computation (EC'19), Phoenix, AZ, June 24-28, 2019.
6. H. Beyhaghi, N. Golrezaei, R. Paes Leme, M. Pal, and B. Sivan, "Improved Approximations for Free-Order Prophets and Second-Price Auctions," **Operations Research**, vol. 69, issue 6, pp. 1805-1822, 2021.
7. N. Golrezaei, A. Javanmard, and V. Mirrokni, "Dynamic Incentive-Aware Learning: Robust Pricing in Contextual Auctions," **Operations Research**, vol. 69, issue 1, pp. 297 - 314, 2021.
 - A preliminary version appeared in the Proceedings of the 33rd Conference on Neural Information Processing Systems (NeurIPS), Vancouver, Canada, Dec. 8-14, 2019.

8. N. Golrezaei, H. Nazerzadeh, and R. Randhawa, "Dynamic Pricing for Heterogeneous Time-Sensitive Customers," **Manufacturing & Service Operations Management**, vol. 22, issue 3, pp. 562-581, 2020.
 - **Finalist for the 2019 Service Science Best Paper Award.**
9. N. Golrezaei and H. Nazerzadeh, "Auctions with Dynamic Costly Information Acquisition," **Operations Research**, vol. 65, issue 1, pp. 130 - 144, Aug. 2016.
 - A preliminary version was presented in Ad Auctions Workshop of 15th ACM Conference on Economics and Computation (EC'14), Palo Alto, California, June 8-12, 2014.
10. N. Golrezaei, H. Nazerzadeh, and P. Rusmevichientong, "Real-time Optimization of Personalized Assortments," **Management Science**, vol. 60, issue 6, pp. 1532 - 1551, Feb., 2014.
 - **Finalist for the 2016 MSOM Student Paper Competition.**
 - **Finalist for the 2017 POMS SCM College Best Student Paper Competition.**
 - A preliminary version appeared in the Proceedings of the 14th ACM Conference on Economics and Computation (EC'13), Philadelphia, PA, June 16-20, 2013.
11. N. Golrezaei, A.G. Dimakis, and A.F. Molisch, "Scaling Behaviors of Wireless Device-to-Device Communications with Distributed Caching," **IEEE Transactions on Information Theory**, vol. 60, issue 7, pp. 4286 - 4298, July, 2014.
 - A preliminary version, titled "Wireless Device-to-Device Communications with Distributed Caching," appeared in the proceeding of IEEE International Symposium on Information Theory (ISIT), pp. 2781- 2785, Cambridge, MA, July 1-6, 2012.
12. N. Golrezaei, P. Mansourifard, A.F. Molisch, and A.G. Dimakis, "Base-Station Assisted Device-to-Device Communications for High-Throughput Wireless Video Networks," **IEEE Transactions on Wireless Communications**, vol. 13, issue 7, pp. 3665 - 3676, July, 2014.
 - A preliminary version appeared in the proceeding of IEEE International Conference on Communications (ICC), pp. 7077 - 7081, Ottawa, ON, June 10-15, 2012.
13. K. Shanmugam, N. Golrezaei, A.G. Dimakis, A.F. Molisch, and G. Caire, "Femto-Caching: Wireless Video Content Delivery through Distributed Caching Helpers," **IEEE Transactions on Information Theory**, vol. 59, issue 12, pp. 8402 - 8413, Dec., 2013.
 - A preliminary version appeared in the proceeding of International Conference on Computer Communications (INFOCOM), pp. 1107 - 1115, Orlando, FL, Mar. 25-30, 2012.
14. N. Golrezaei, A.F. Molisch, A.G. Dimakis, and G. Caire, "FemtoCaching and Device-to-Device Collaboration: A New Architecture for Wireless Video Distribution," **IEEE Communications Magazine**, vol. 51, issue 4, pp. 142 - 149, Apr., 2013.

Working Papers

1. B. Van Parys and N. Golrezaei, “Optimal Learning for Structured Bandits,” Minor Revision at **Management Science**.
2. Q. Chen, N. Golrezaei, F. Susan, and E. Baskoro, “Fair Assortment Planning,” Available at SSRN 4072912 (2022).
 - **Finalist for the INFORMS Social Media Analytics Best Student Paper, entrant: Qinyi Chen, 2022.**
 - **Finalist for the INFORMS IBM Best Student Paper Award Competition, entrant: Qinyi Chen, 2022.**
 - Honorable Mention, INFORMS Minority Issue Forum Student Poster Competition, entrant: Qinyi Chen, 2022.
 - Accepted for presentation at the MSOM Service SIG, 2022.
 - Spotlight presentation at the annual INFORMS Revenue Management and Pricing (RM&P) Section Conference, 2022.
3. F. Susan, N. Golrezaei, D. Kempe, and E. Emamjome-Zadeh, “Active Learning of Non-parametric Choice Models,” Available at arXiv:2208.03346.
 - Honorable Mention, INFORMS Minority Issue Forum Student Poster Competition, entrant: Fransisca Susan, 2022.
4. N. Golrezaei, P. Jaillet, and Zijie Zhou, “Online Resource Allocation with Samples,” Available at SSRN 4054796.
5. N. Golrezaei and Evan Yao, “Upfront Commitment in Online Resource Allocation with Patient Customers,” Available at arXiv:2108.03517.
6. Q. Chen, N. Golrezaei, and D. Bouneffouf, “Dynamic Bandits with an Auto-Regressive Temporal Structure,” Available at SSRN 3887608.
7. N. Golrezaei, P. Jaillet, and J. Liang, “Algorithmic Pricing in Competitive Markets with Reference Effects,” Work in progress.
8. N. Golrezaei, P. Jaillet, and Zijie Zhou, “Resource Allocation with Convex-set Machine-Learned Advice,” Work in progress.
9. R. Galgana, N. Golrezaei, “Learning in Repeated Multi-Unit Pay-As-Bid Auctions,” Work in progress.
10. Y. Deng, N. Golrezaei, P. Jaillet, J. Liang, V. Mirrokni, “Multi-channel Autobidding with Budget and ROI Constraints,” Work in progress.
11. Y. Deng, N. Golrezaei, P. Jaillet, J. Liang, V. Mirrokni, “Fairness in the Autobidding World with Machine-learned Advice,” Work in progress.
12. S. Brânzei, M. Derakhshan, N. Golrezaei, Y. Han, “Online Learning in Multi-unit Auctions for Carbon,” Work in progress.

Selected Refereed Conference Papers

1. N. Golrezaei, P. Jaillet, J. Liang, V. Mirrokni, “Pricing against a Budget and ROI Constrained Buyer,” Conference on Artificial Intelligence and Statistics (AISTATS), Apr. 25 - Apr. 27, 2023.
2. N. Golrezaei, P. Jaillet, J. Liang, “Incentive-aware Contextual Pricing with Non-parametric Market Noise,” Conference on Artificial Intelligence and Statistics (AISTATS), Apr. 25 - Apr. 27, 2023.
3. N. Golrezaei, V. Manshadi, J. Schneider, and S. Sekar, “Learning Product Rankings Robust to Fake Users,” The Proceedings of the 22nd ACM Conference on Economics and Computation (EC’21), pp. 560-561, July 20-22, 2021.
 - **Finalist for the 2022 INFORMS Data Mining Competition (General Track).**
4. R. Niazadeh, N. Golrezaei, J. Wang, F. Susan, and A. Badanidiyuru, “Online Learning via Offline Greedy Algorithms: Applications in Market Design and Optimization,” The Proceedings of the 22nd ACM Conference on Economics and Computation (EC’21), pp. 737-738, July 20-22, 2021.
 - **Finalist for the 2021 INFORMS Data Mining Competition (General Track).**
5. N. Golrezaei, M. Lin, V. Mirrokni, and H. Nazerzadeh, “Boosted Second Price Auctions: Revenue Optimization for Heterogeneous Bidders,” The ACM Special Interest Group on Knowledge Discovery and Data Mining (SIGKDD) Conference, pp. 447-457, Aug. 23-27, 2021.
 - **Finalist for the 2018 INFORMS Data Mining Best Theoretical Paper Competition.**
6. N. Golrezaei, I. Lobel, and R. Paes Leme, “Auction Design for ROI-Constrained Buyers,” The Web Conference (WWW), pp. 3941-3952, Apr.19-23, 2021.
7. N. Golrezaei, P. Jaillet, and J. Liang, “No-regret Learning in Price Competitions under Consumer Reference Effects,” The Proceedings of the 34th Conference on Neural Information Processing Systems (NeurIPS), pp. 21416-21427, Dec. 6-12, 2020.
8. M. Derakhshan, N. Golrezaei, V. Manshadi, and V. Mirrokni, “Product Ranking on Online Platforms,” The Proceedings of the 21st ACM Conference on Economics and Computation (EC’20), pp. 459-459, July 13-17, 2020.
9. M. Derakhshan, N. Golrezaei, and R. Paes Leme, “LP-based Approximation for Personalized Reserve Prices,” The Proceedings of the 20th ACM Conference on Economics and Computation (EC’19), pp. 589-589, June 24-28, 2019.
10. S. Balseiro, N. Golrezaei, M. Mahdian, V. Mirrokni, and J. Schneider, “Contextual Bandits with Cross-learning,” The Proceedings of the 33rd Conference on Neural Information Processing Systems (NeurIPS), pp. 9676 - 9685, Vancouver, Canada, Dec. 8-14, 2019.
11. N. Golrezaei, A. Javanmard, and V. Mirrokni, “Dynamic Incentive-Aware Learning: Robust Pricing in Contextual Auctions,” Advances in Neural Information Processing Systems (NeurIPS), pp. 9756 – 9766, Vancouver, Canada, Dec. 8-14, 2019.

12. N. Golrezaei and H. Nazerzadeh, "Auctions with Dynamic Costly Information Acquisition," 10th Ad Auction workshop, 15th ACM Conference on Economics and Computation (EC'14), Palo Alto, California, June 8-12, 2014.
13. N. Golrezaei, H. Nazerzadeh, and P. Rusmevichientong, "Real-time Optimization of Personalized Assortments," 14th ACM Conference on Electronic Commerce (EC13), pp. 561 - 562, Philadelphia, PA, June 16-20, 2013.
14. N. Golrezaei, K. Shanmugam, A.G. Dimakis, A.F. Molisch, and G. Caire, "FemtoCaching: Wireless Video Content Delivery through Distributed Caching Helpers," International Conference on Computer Communications (INFOCOM), pp. 1107-1115, Orlando, FL, Mar. 25-30, 2012.

Teaching Experiences

Instructor, 15.780, Stochastic Models in Business Analytics, MIT, Fall 2019 and Fall 2020.

Instructor, 15.774, The Analytics of Operations Management, MIT, Fall 2019 and Fall 2020.

Instructor, 15.764, Theory of Operations Management, MIT, Spring 2019.

Instructor, BUAD 311, Operations Management, USC, Spring 2016.

- **Recognized by the Marshall Ph.D. Teaching Award and the USC University Outstanding Teaching Award.**

Teaching Assistant: Operations Management, USC, Spring 2015; Signals and Systems, Sharif University of Technology, 2009-2010; and Control Systems, Sharif University of Technology, 2007.

Talks

"Fair Assortment Planning"

- Meta Seminar Series (virtual seminar), Mar. 2022.

"Bidding and Pricing in Budget and ROI Constrained Markets"

- Amazon Advertisement Science Seminar Series (virtual seminar), Feb. 2022.
- Keynote talk at AdKDD 2021 workshop: a leading workshop on artificial intelligence for computational advertising in conjunction with KDD 2021, Aug. 2021.

"No-regret Learning in Price Competitions under Consumer Reference Effects"

- INFORMS Annual Meeting, Oct. 2021.

"Personalizing the Size of Assortments Using a Field Experiment"

- Liberty Mutual Insurance meeting, Mar. 2022.

"Learning Product Rankings Robust to Fake Users"

- INFORMS Annual Meeting, Data Mining Competition Session, Oct. 2022.
- C3.AI Workshop on Data, Learning, and Markets, UIUC, Digital Transformation Institute, Oct. 2022.

- McDonough School of Business, Georgetown University, Apr. 2021.
- Wharton OM Seminar, University of Pennsylvania, Apr. 2021.
- Indian School of Business (ISB), Feb. 2021.
- Harvard Business School (HBS) Technology and Operations Management (TOM) Seminar, Dec. 2020.

“Linear Program based Approximation for Personalized Reserve Prices”

- INFORMS Annual Meeting, Nov. 2020.

“Online Learning via Offline Greedy Algorithms: Applications in Market Design and Optimization”

- Data-Driven Decision Processes Boot Camp workshop, Simons Institute for the Theory of Computing at the University of California, Berkeley, Aug. 2022.
- Learning and Games Seminar, Simons Institute for the Theory of Computing at the University of California, Berkeley, Mar. 2022.
- Virtual Prophets Institute, Dec. 2021.
- Information and Decision Sciences (IDS) seminar series at the University of Illinois Chicago, Nov. 2021.
- INFORMS Annual Meeting, Data Mining Competition Session, Anaheim, CA, Oct. 2021.
- Online seminar at the Decision Sciences Group, Fuqua School of Business, Duke University, Oct. 2021.
- STOR-i Centre, Lancaster University, Jan. 2021.
- Mathematics of Online Decision Making Workshop, Simons Institute for the Theory of Computing at the University of California, Berkeley, Oct. 2020.
- Marketplace Algorithms and Design (virtual) seminar, Aug. 2020.

“Optimal Learning for Structured Bandits”

- Structure of Constraints in Sequential Decision-making Workshop, Simons Institute for the Theory of Computing at the University of California, Berkeley, Oct. 2022.
- Virtual Prophets Institute, Dec. 2021.
- Seminar on Mathematics of Imaging Sciences, Data Sciences, and Optimization, Department of Mathematical Sciences, Rensselaer Polytechnic Institute, Oct. 2021.
- Workshop in Information and Learning in Decisions and Operations, July 2021.
- INFORMS Revenue Management and Pricing Conference, June 2021.
- UBC Sauder School OPLOG Division Online Seminar, Nov. 2020.
- Data Science Lab seminar series, Massachusetts Institute of Technology, Mar. 2020.

“Incentive-aware Contextual Pricing with Non-parametric Market Noise”

- The University of Chicago Booth School of Business, Chicago, IL, Feb. 2020.

“Contextual Bandits with Cross-learning”

- Workshop on Networks, Matching, and Platforms, Orlando, FL, Jan. 2020.

“Auction Design for ROI-Constrained Buyers”

- The Web Conference, Apr. 2021.
- INFORMS Annual Meeting, Seattle, Oct. 2019.

“Dynamic Incentive-Aware Learning: Robust Pricing in Contextual Auctions”

- “Learning in Presence of Strategic Behavior” workshop at the twentieth ACM conference on Economics and Computation (ACM EC '19), Phoenix, AZ, June 2019.
- Revenue Management & Pricing Conference, Stanford University, Palo Alto, CA, June, 2019.
- Operation Technology and Information Management (OTIM) Symposium, SC Johnson College of Business, Cornell University, Ithaca, NY, May 2019.
- Harvard University, EconCS Group, Cambridge, MA, Apr. 2019.
- 5th Google Market Algorithms Workshop, Mountain View, CA, Feb. 2019.
- MIT Operations Research Center IAP Seminar, Cambridge, MA, Jan. 2019.
- IBM T. J. Watson Research Center, Yorktown Heights, NY, May 2018.

“Boosted Second-price Auctions for Heterogeneous Bidders”

- SIGKDD conference (Association for Computing Machinery’s Special Interest Group on Knowledge Discovery and Data Mining), Aug. 2021.
- Carnegie Mellon University’s Heinz College, Pittsburgh, PA, Apr. 2019.
- MIT Operations Research Center, Cambridge, MA, March 2019.
- 5th Google Market Algorithms Workshop, Mountain View, CA, Feb. 2019.
- MIT, David Simchi-Levi Seminar Series, Cambridge, MA, Feb. 2019
- INFORMS Annual Meeting, Data Mining Workshop, Phoenix, AZ, Nov. 2018.
- Google New York, New York May. 2018.
- The Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA, Nov. 2017.
- INFORMS Annual Meeting, Houston, TX, Oct. 2017.
- 3rd Workshop on Algorithmic Game Theory and Data Science, Cambridge, MA, June 2017.
- Marketplace Innovation Workshop, Palo Alto, CA, May 2017.
- POMS Annual Conference, Seattle, WA, May 2017.
- Google New York, New York, NY, Aug. 2016.

“Product Ranking on Online Platforms”

- ACM Conference on Economics and Computation, virtual conference, July 13-17, 2020.

- Rotman School of Management, University of Toronto, Nov. 2019.
- Amazon Research, Seattle, Oct. 2019.
- INFORMS Annual Meeting, Seattle, Oct. 2019.
- The Tuck Business School, Dartmouth College, Sept. 2019.
- POMS Annual Conference, Washington, DC, May 2019.
- IOMS Department, NYU Stern, New York, NY, Apr. 2018.
- Workshop on Networks, Matching, and Platforms, Salt Lake City, UT, Feb. 2018.

“Real-time Optimization of Personalized Assortments”

- Decision Sciences Institute Annual Conference, Chicago, IL, Nov. 2018.
- Research Group at Staples Inc., Framingham, MA, Feb. 2017.
- The Technology and Operations Management Area at INSEAD, Fontainebleau, France, Feb. 2017.
- The Rady School of Management, University of California San Diego, San Diego, CA, Feb. 2017.
- The Yale School of Management, Yale University, New Haven, CT, Feb. 2017.
- The Graduate School of Business, Columbia University, New York, NY, Jan. 2017.
- The Ross School of Business, University of Michigan, Ann Arbor, MI, Jan. 2017.
- The Management Science and Operations Division, London Business School, London, UK, Jan. 2017.
- The Kenan-Flagler Business School, University of North Carolina at Chapel Hill, Chapel Hill, NC, Jan. 2017.
- The Kellogg School of Management, Northwestern University, Evanston, IL, Jan. 2017.
- The Naveen Jindal School of Management, University of Texas at Dallas, Richardson, TX, Dec. 2016.
- The Robert H. Smith School of Business, University of Maryland, College Park, MD, Dec. 2016.
- The Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA, Dec. 2016.
- INFORMS Annual Meeting, Nashville, TN, Nov. 2016.
- Southern California OM/OR Day, University of California, Irvine, Irvine, CA, May 2016.
- ACM Conference on Electronic Commerce (EC), Philadelphia, PA, June 2013.

“Auctions with Dynamic Costly Information Acquisition”

- INFORMS Annual Meeting, Philadelphia, PA, Nov. 2015.
- INFORMS Annual Meeting, San Francisco, CA, Nov. 2014.
- INFORMS Annual Meeting, Minneapolis, MN, Oct. 2013.

“Optimal Dynamic Pricing for Customers with Heterogeneous Valuation Decay”

- MSOM Conference, Chapel Hill, NC, June 2017.
- SoCal NEGT Symposium 2015, USC, Los Angeles, CA, Oct. 2015.
- POMS Annual Conference, Washington, DC, May 2015.

Ph.D. Theses Supervised

- Jason Cheuk Nam Liang (OR Center), 09/2018 - present (co-advised with Patrick Jaillet)
- Fransisca Susan (OR Center), 09/2019 - present
- Qinyi Chen (OR Center), 09/2020 - present
- Zijie (Jerry) Zhou (OR Center), 09/2021 - present (co-advised with Patrick Jaillet)
- Rigel Galgana (OR Center), 09/2022 - present

Masters Theses Supervised

- Stanislav Slavov (ORC SM), 2020-2022.
- Felix Dumont (LGO), 2019-2021.
- Bidusha Poudyal (LGO): Winner of the 2020 best MIT's Leaders for Global Operations (LGO) thesis award, 2018-2020.

Capstone Projects Supervised

- Elva He and Pan Asavamongkolkul, Title: "BMW Dynamic Pricing," 2021.
- Danial Ahmad Zafar Mirza and Rihab Rebai, Title: "Opioid Detection in US Mail Stream," 2020.
- Antoine Roncoroni and Alexandre Claude Marc Saillard, Title: "Suggesting order quantities for convenience stores," 2019.

Referee Services

- Panelist for the 2022 NSF Operations Engineering (OE) Program, Unsolicited proposal panel.
- Senior editor of the Production and Operations Management journal, 2022-present.
- Associate editor of Operations Research Letters journal, 2021-present.
- Cluster chair of the Revenue Management and Pricing (RMP) section of INFORMS 2021 Annual Meeting.
- Judge for the 2022 INFORMS RMP Section Jeff McGill student paper award.
- Judge for the 2022 MSOM student paper competition.
- Judge for the 2022 INFORMS Data Mining best paper competition.
- Panelist for Women in OR/MS (WORMS) on time management, procrastination, and strategies for working remotely, 2020.

- Referee for the following journals: Management Science, Operations Research, Mathematics of Operations Research, Manufacturing & Service Operations Management, Production and Operations Management, Stochastic Systems, INFORMS Journal on Optimization, and ACM Transactions on Economics and Computation (TEAC), Decision Sciences, Institute of Industrial and Systems Engineers (IISE), IEEE Transactions on Information Theory, IEEE Transactions on Wireless Communications, and IEEE Transactions on Vehicular Technology.
- Referee for the following conferences: Internet Economics (WINE), International Symposium on Algorithmic Game Theory (SAGT) conferences, ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), and IEEE International Conference on Communications (ICC).
- Chair of the 2019 Elwood S. Buffa Doctoral Dissertation Award Committee.
- PC member of the 2019 Revenue Management & Pricing Conference.
- PC member of the 2021 Neural Information Processing Systems (NeurIPS) conference.
- PC member of the 2019 and 2020 Web Conference (formerly known as WWW).
- PC member of the ACM conferences on Economics and Computation, 2018-2022.
- Judge for the 2019 INFORMS O.R. & Analytic Student Team Competition.

Computer Skills

Programming Languages: C++, Matlab

Data Analytics and Database Tools: R, SQL, Dremel, MapReduce

Web Development Tools: HTML, CSS, PHP, JavaScript, JQuery

Media Coverage

1. MIT ILP, "Data-Driven Markets," Mar. 2022.
2. MIT Sloan Experts, "How to make online product rankings more trustworthy," Feb. 2021.
3. Retail Brief Africa, "MIT Sloan professor's learning algorithms mitigate impact of fraud on product rankings," Dec. 2020.
4. The Realtime Report, "MIT professor develops search model for product rankings on online platforms," April 2020.
5. MIT Sloan Office of Media Relation, "Sloan prof. analyzes impact of product rankings on online platforms," Mar. 2020.
6. MIT Sloan Office of Media Relations, "MIT Sloan professor designs model to limit price manipulation," Mar. 2020.
7. Inside Big Data, "How to produce cleaner data for robust pricing," June, 2020.

Outside Activities

- Visiting Researcher, Simons Institute for the Theory of Computing, UC Berkeley, Berkeley, CA, 01/2022-05/2022.
- Visiting Researcher, Facebook Research, Menlo Park, CA, 06/2021-present.
- Visiting Researcher, Google Research, New York, NY, 10/2018-10/2020.

Citizenship

US Citizen