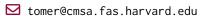
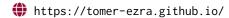
Tomer Ezra, Ph.D.







Education

2022	Ph.D., Computer Science, Tel Aviv University in Algorithmic Game Theory.
	Thesis title: Simple Algorithms for Limited Information Settings.
2016	M.Sc., Computer Science, Tel Aviv University in Algorithmic Game Theory. Thesis title: <i>Pricing Public Goods for Simultaneous and Sequential Sales</i> .
2010	B.Sc., Computer Science, The Open University (Summa cum Laude).

Employment History

2024 – Present	Postdoctoral Fellow , Center of Mathematical Sciences and Applications at Harvard University.
2023	Postdoctoral Fellow, Simons Laufer Mathematical Sciences Institute.
2021 – 2023	Postdoctoral Researcher , Sapienza University of Rome, hosted by Prof. Stefano Leonardi.
2020	Research Intern, Amazon, Alexa Shopping Science Team.

Awards and Achievements

2023	Distinguished Postdoc supported by the Alfred P. Sloan Foundation , Simons Laufer Mathematical Sciences Institute.
2021	The Deutsch Prize, Tel Aviv University.
2010	Bronze medal, SEEMOUS Olympiad for math.
2009	Participation in IOI, Representing Israel in the International Olympiad in Informatics.
2009	Dean's list, The Open University.
2008	Rector's list, The Open University.
2007	Dean's list, The Open University.
2006	Dean's list, The Open University.

Teaching and Mentorship

Teaching Assistance:

2022	Algorithm Design (Graduate). Teaching Assistant, Sapienza University of Rome, Italy.
2016	Programming Languages (Undergraduate). Teaching Assistant, Tel Aviv University, Israel.
2015	Complexity (Undergraduate). Teaching Assistant, Tel Aviv University, Israel.

Mentorship:

- ♦ **Ben Berger**, Tel Aviv University, advised by Prof. Michal Feldman. Papers accepted to EC' 2023, and AAAI' 2024.
- Matteo Russo, Sapienza University of Rome, advised by Prof. Stefano Leonardi. Papers accepted to WINE' 2023, SAGT' 2024, APPROX' 2024.

Teaching and Mentorship (continued)

- Maya Schlesinger, Tel Aviv University, advised by Prof. Michal Feldman. Paper accepted to ITCS' 2024.
- Tamar Garbuz, Tel Aviv University, advised by Prof. Inbal Talgam-Cohen. Paper accepted to WINE' 2023.
- Johannes Brustle, London School of Economics, advised by Paul Dütting. Paper accepted to EC' 2024.

Service

Program Committee:

- ACM Conference of Economics and Computation (EC'21, EC'22, EC'23, EC'24)
- ♦ Conference on Web and Internet Economics (WINE'21, WINE'23, WINE'24)
- ❖ The Web Conference (WWW'23)
- The International Symposium on Algorithmic Game Theory (SAGT'23, SAGT'24)
- ❖ Frontier of Algorithmic Wisdom (FAW'24)

Journal Reviews:

ACM Transactions on Economics and Computation (TEAC), Mathematics of Operations Research (MOR), Operations Research (OR), Games and Economic Behavior (GEB), Mathematical Social Sciences (MSS), Theoretical Computer Science (TCS), Journal of Artificial Intelligence Research (JAIR), Information and Computation.

Conference Reviews:

FOCS, STOC, SODA, EC, WINE, SAGT, ESA, WWW, SOSA, ICALP, APPROX, ITCS.

Research Publications

Journal Articles:

- T. Ezra, M. Feldman, N. Gravin, and Z. G. Tang, "Tight bounds for secretary matching in general graphs," *Mathematics of Operations Research*, vol. 0, no. 0, null, 0. ODOI: 10.1287/moor.2022.0206. eprint: https://doi.org/10.1287/moor.2022.0206.
- B. Berger, T. Ezra, M. Feldman, and F. Fusco, "Pandora's problem with combinatorial cost," Accepted for Publication in Mathematics of Operations Research, 2024.
- M. Babaioff, T. Ezra, and U. Feige, "Fair-share allocations for agents with arbitrary entitlements," *Mathematics of Operations Research*, 2023. ODI: 10.1287/moor.2021.0199. eprint: https://doi.org/10.1287/moor.2021.0199.
- T. Ezra, M. Feldman, N. Gravin, and Z. G. Tang, "Prophet matching with general arrivals," *Mathematics of Operations Research*, vol. 47, no. 2, pp. 878–898, 2022. ODI: 10.1287/MOOR.2021.1152.
- T. Ezra, M. Feldman, and O. Friedler, "A general framework for endowment effects in combinatorial markets," *SIGecom Exchanges*, vol. 18, no. 2, pp. 38–44, 2020. ODI: 10.1145/3440968.3440973.
- T. Ezra, M. Feldman, T. Roughgarden, and W. Suksompong, "Pricing multi-unit markets," ACM Transactions on Economics and Computation, vol. 7, no. 4, 20:1–20:29, 2020. ODDI: 10.1145/3373715.

Conference Proceedings:

- P. Duetting, T. Ezra, M. Feldman, and T. Kesselheim, "Multi-agent combinatorial contracts," Accepted for publication in the 2025 ACM-SIAM Symposium on Discrete Algorithms (SODA), 2025.
- B. Berger, T. Ezra, M. Feldman, and F. Fusco, "Pandora's problem with deadlines," in *Thirty-Eighth AAAI Conference on Artificial Intelligence, AAAI 2024, Thirty-Sixth Conference on Innovative Applications of Artificial Intelligence, IAAI 2024, Fourteenth Symposium on Educational Advances in Artificial Intelligence, EAAI 2014, February 20-27, 2024, Vancouver, Canada*, M. J. Wooldridge, J. G. Dy, and S. Natarajan, Eds., AAAI Press, 2024, pp. 20 337–20 343. ODI: 10.1609/AAAI.V38I18.30015.
- G. Birmpas, T. Ezra, S. Leonardi, and M. Russo, "Fair division with interdependent values," in Algorithmic Game Theory 17th International Symposium, SAGT 2024, Amsterdam, The Netherlands, September 3-6, 2024, Proceedings, G. Schäfer and C. Ventre, Eds., ser. Lecture Notes in Computer Science, vol. 15156, Springer, 2024, pp. 72–88. ODI: 10.1007/978-3-031-71033-9_5.
- J. Brustle, J. Correa, P. Dütting, T. Ezra, M. Feldman, and V. Verdugo, "The competition complexity of prophet inequalities," in EC '24: The 25th ACM Conference on Economics and Computation, 2024.
- T. Ezra, M. Feldman, and M. Schlesinger, "On the (In)approximability of Combinatorial Contracts," in 15th Innovations in Theoretical Computer Science Conference (ITCS 2024), V. Guruswami, Ed., ser. Leibniz International Proceedings in Informatics (LIPIcs), vol. 287, Dagstuhl, Germany: Schloss Dagstuhl Leibniz-Zentrum für Informatik, 2024, 44:1–44:22, ISBN: 978-3-95977-309-6. ODI: 10.4230/LIPIcs.ITCS.2024.44.
- T. Ezra, M. Feldman, and Z. G. Tang, "Choosing behind the veil: Tight bounds for identity-blind online algorithms," in EC '24: The 25th ACM Conference on Economics and Computation, 2024.
- T. Ezra, S. Leonardi, M. Pawlowski, M. Russo, and S. W. Umboh, "Universal optimization for non-clairvoyant subadditive joint replenishment," in *Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques, APPROX/RANDOM 2024, August 28-30, 2024, London School of Economics, London, UK*, A. Kumar and N. Ron-Zewi, Eds., ser. LIPIcs, vol. 317, Schloss Dagstuhl Leibniz-Zentrum für Informatik, 2024, 12:1–12:24. ODOI: 10.4230/LIPICS.APPROX/RANDOM. 2024.12.
- B. Berger, T. Ezra, M. Feldman, and F. Fusco, "Pandora's problem with combinatorial cost," in Proceedings of the 24th ACM Conference on Economics and Computation, EC 2023, London, United Kingdom, July 9-12, 2023, K. Leyton-Brown, J. D. Hartline, and L. Samuelson, Eds., ACM, 2023, pp. 273–292. ODI: 10.1145/3580507.3597699.
- P. Dütting, T. Ezra, M. Feldman, and T. Kesselheim, "Multi-agent contracts," in *Proceedings of the 55th Annual ACM Symposium on Theory of Computing, STOC 2023, Orlando, FL, USA, June 20-23, 2023,*B. Saha and R. A. Servedio, Eds., ACM, 2023, pp. 1311–1324. ODDI: 10.1145/3564246.3585193.
- T. Ezra, M. Feldman, N. Gravin, and Z. G. Tang, ""who is next in line?" on the significance of knowing the arrival order in bayesian online settings," in *Proceedings of the 2023 ACM-SIAM Symposium on Discrete Algorithms, SODA 2023, Florence, Italy, January 22-25, 2023,* N. Bansal and V. Nagarajan, Eds., SIAM, 2023, pp. 3759–3776. ODI: 10.1137/1.9781611977554.CH145.
- T. Ezra and T. Garbuz, "The importance of knowing the arrival order in combinatorial bayesian settings," in *Web and Internet Economics 19th International Conference, WINE 2023, Shanghai, China, December 4-8, 2023, Proceedings*, J. Garg, M. Klimm, and Y. Kong, Eds., ser. Lecture Notes in Computer Science, vol. 14413, Springer, 2023, pp. 256–271. ODI: 10.1007/978-3-031-48974-7_15.
- T. Ezra, S. Leonardi, R. Reiffenhäuser, M. Russo, and A. Tsigonias-Dimitriadis, "Prophet inequalities via the expected competitive ratio," in *Web and Internet Economics 19th International Conference, WINE 2023, Shanghai, China, December 4-8, 2023, Proceedings*, J. Garg, M. Klimm, and Y. Kong, Eds., ser. Lecture Notes in Computer Science, vol. 14413, Springer, 2023, pp. 272–289. ODI: 10.1007/978-3-031-48974-7_16.

- M. Babaioff, T. Ezra, and U. Feige, "On best-of-both-worlds fair-share allocations," in Web and Internet Economics 18th International Conference, WINE 2022, Troy, NY, USA, December 12-15, 2022, Proceedings, K. A. Hansen, T. X. Liu, and A. Malekian, Eds., ser. Lecture Notes in Computer Science, vol. 13778, Springer, 2022, pp. 237–255. ODI: 10.1007/978-3-031-22832-2_14.
- T. Ezra, M. Feldman, N. Gravin, and Z. G. Tang, "General graphs are easier than bipartite graphs: Tight bounds for secretary matching," in EC '22: The 23rd ACM Conference on Economics and Computation, Boulder, CO, USA, July 11 15, 2022, D. M. Pennock, I. Segal, and S. Seuken, Eds., ACM, 2022, pp. 1148–1177. ODI: 10.1145/3490486.3538290.
- M. Babaioff, T. Ezra, and U. Feige, "Fair and truthful mechanisms for dichotomous valuations," in Thirty-Fifth AAAI Conference on Artificial Intelligence, AAAI 2021, Thirty-Third Conference on Innovative Applications of Artificial Intelligence, IAAI 2021, The Eleventh Symposium on Educational Advances in Artificial Intelligence, EAAI 2021, Virtual Event, February 2-9, 2021, AAAI Press, 2021, pp. 5119–5126. © DOI: 10.1609/AAAI.V3516.16647.
- M. Babaioff, T. Ezra, and U. Feige, "Fair-share allocations for agents with arbitrary entitlements," in EC '21: The 22nd ACM Conference on Economics and Computation, Budapest, Hungary, July 18-23, 2021, P. Biró, S. Chawla, and F. Echenique, Eds., ACM, 2021, p. 127. ODOI: 10.1145/3465456.3467559.
- P. Dütting, T. Ezra, M. Feldman, and T. Kesselheim, "Combinatorial contracts," in 62nd IEEE Annual Symposium on Foundations of Computer Science, FOCS 2021, Denver, CO, USA, February 7-10, 2022, IEEE, 2021, pp. 815–826. ODI: 10.1109/FOCS52979.2021.00084.
- T. Ezra, M. Feldman, and R. Kupfer, "On a competitive secretary problem with deferred selections," in Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence, IJCAI 2021, Virtual Event / Montreal, Canada, 19-27 August 2021, Z. Zhou, Ed., ijcai.org, 2021, pp. 175–181. ODI: 10.24963/IJCAI.2021/25.
- T. Ezra, M. Feldman, and R. Kupfer, "Prophet inequality with competing agents," in *Algorithmic Game Theory 14th International Symposium, SAGT 2021, Aarhus, Denmark, September 21-24, 2021, Proceedings,* I. Caragiannis and K. A. Hansen, Eds., ser. Lecture Notes in Computer Science, vol. 12885, Springer, 2021, pp. 112–123. ODOI: 10.1007/978-3-030-85947-3_8.
- T. Ezra, M. Feldman, and O. Friedler, "A general framework for endowment effects in combinatorial markets," in EC '20: The 21st ACM Conference on Economics and Computation, Virtual Event, Hungary, July 13-17, 2020, P. Biró, J. D. Hartline, M. Ostrovsky, and A. D. Procaccia, Eds., ACM, 2020, pp. 499–500.

 DOI: 10.1145/3391403.3399516.
- T. Ezra, M. Feldman, N. Gravin, and Z. G. Tang, "Online stochastic max-weight matching: Prophet inequality for vertex and edge arrival models," in EC '20: The 21st ACM Conference on Economics and Computation, Virtual Event, Hungary, July 13-17, 2020, P. Biró, J. D. Hartline, M. Ostrovsky, and A. D. Procaccia, Eds., ACM, 2020, pp. 769–787. ODI: 10.1145/3391403.3399513.
- T. Ezra, M. Feldman, E. Neyman, I. Talgam-Cohen, and S. M. Weinberg, "Settling the communication complexity of combinatorial auctions with two subadditive buyers," in 60th IEEE Annual Symposium on Foundations of Computer Science, FOCS 2019, Baltimore, Maryland, USA, November 9-12, 2019, D. Zuckerman, Ed., IEEE Computer Society, 2019, pp. 249–272. ODI: 10.1109/FOCS.2019.00025.
- T. Ezra, M. Feldman, and I. Nehama, "Prophets and secretaries with overbooking," in *Proceedings of the 2018 ACM Conference on Economics and Computation, Ithaca, NY, USA, June 18-22, 2018*, É. Tardos, E. Elkind, and R. Vohra, Eds., ACM, 2018, pp. 319–320. ODI: 10.1145/3219166.3219211.
- T. Ezra, M. Feldman, T. Roughgarden, and W. Suksompong, "Pricing multi-unit markets," in Web and Internet Economics 14th International Conference, WINE 2018, Oxford, UK, December 15-17, 2018, Proceedings, G. Christodoulou and T. Harks, Eds., ser. Lecture Notes in Computer Science, vol. 11316, Springer, 2018, pp. 140–153. ODI: 10.1007/978-3-030-04612-5_10.

A. Eden, T. Ezra, and M. Feldman, "Pricing social goods," in 25th Annual European Symposium on Algorithms, ESA 2017, September 4-6, 2017, Vienna, Austria, K. Pruhs and C. Sohler, Eds., ser. LIPIcs, vol. 87, Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2017, 35:1–35:14. • DOI: 10.4230/LIPICS.ESA.2017.35.

Pre-prints:

- T. Ezra, "Prophet inequality from samples: Is the more the merrier?" 2024. arXiv: 2409.00559.
- T. Ezra, M. Feldman, and M. Schlesinger, "Sequential Contracts," 2024. arXiv: 2403.09545.
- T. Ezra and T. Garbuz, "The competition complexity of prophet inequalities with correlations," 2024. arXiv: 2409.06868.
- T. Ezra and T. Garbuz, "The competition complexity of prophet secretary," 2024. arXiv: 2411.10892.
- T. Ezra, S. Leonardi, and M. Russo, "Contracts with inspections," 2024. arXiv: 2402.16553.
- T. Ezra, D. Schoepflin, and A. Shaulker, "Optimal mechanisms for consumer surplus maximization," 2024. arXiv: 2402.16972.