

## Contact Information

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## Academic Appointments

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2024- Associate Professor of Economics (degree conferred by YÖK in 2023)  
2011-2024 Assistant Professor of Economics

## Education

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2005-2011 Carnegie Mellon University, Pittsburgh, PA  
Ph.D. in Economics (minor in Finance)  
2005-2007 Carnegie Mellon University, Pittsburgh, PA  
M.S. in Economics  
2003-2005 Humboldt University, Berlin, Germany  
M.A. in Economics and Management Science  
1998-2003 Bilkent University, Ankara, Turkey  
B.S. in Industrial Engineering

## Honors and Awards

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- Alexander Henderson Award for Economic Theory, 2011  
(four previous winners later earned the Nobel Prize in Economics)
- William Larimer Mellon Fellowship, Carnegie Mellon University, 2005-2011
- DAAD scholarship, Humboldt University, 2003-2005
- TEV scholarship, 2003-2005
- Full scholarship, Bilkent University, 1998-2003

## Research

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### Research Interests

- Microeconomic Theory, Game Theory, Mechanism Design, Market Design, Portfolio Selection

### Working Papers & Work-in-progress

- Kidney exchange with selfish centers, working paper
- Geometric hitting set problem for disks with a point in the center (with B. Caskurlu) working paper.
- On Singleton Congestion Games with Resilience Against Collusion, working paper.
- Discrete Resource Allocation: A Unifying Characterization Result, work-in-progress.
- Discrete Matching: A Unifying Axiom, work-in-progress.
- Indivisible Object Reallocation: A New Characterization, work-in-progress.
- Indivisible Object Allocation: A New Core Notion, work-in-progress.
- House Allocation with Existing Tenants: A New Solution, work-in-progress.
- House Allocation with Existing Tenants: A Non-characterization Result, work-in-progress.
- House Swapping, work-in-progress.

## Journal Publications

### *Mechanism Design & Matching Theory*

- Pair-efficient Reallocation of Indivisible Objects  
**Theoretical Economics** no. 2 (2024): 551-564. (**cover article**) (SSCI, Scopus, CABS-AJG=4, ABDC=A\*)
- Characterizing the TTC rule by Pair-efficiency: A Short Proof (with J. Sethuraman)  
**Economics Letters** 234 (2024): 111459. (SSCI, Scopus, CABS-AJG=3, ABDC=A)
- Random mechanisms for house allocation with existing tenants  
**Journal of Mathematical Economics** (2020), 89, 53–65. (SSCI, Scopus, CABS-AJG=3, ABDC=A)
- An equilibrium analysis of the probabilistic serial mechanism (with O. Kesten)  
**International Journal of Game Theory** (2016), 45(3), 655–674. (SSCI, Scopus, CABS-AJG=2, ABDC=A)
- Reclaim-proof allocation of indivisible objects  
**Games and Economic Behavior** (2013), 81, 1–10. (SSCI, Scopus, CABS-AJG=4, ABDC=A\*)

### *Finance*

- The role of real estate and gold as inflation hedges: the Islamic influence (with O. Gulseven)  
**International Journal of Islamic and Middle Eastern Finance and Management** (2021), 14(2), 391–408. (SSCI, Scopus, CABS-AJG=1, ABDC=B)
- The Turkish appetite for gold: An Islamic explanation (with O. Gulseven)  
**Resources Policy** (2016), 48, 41–49. (SSCI, Scopus, CABS-AJG=2, ABDC=B)

### *Game Theory*

- On existence of equilibrium under social coalition structures (with B. Caskurlu and F. Kizilkaya)  
**Mathematical Structures in Computer Science** (2022), 32.2, 216-239. (SCI, Scopus)
- On Optimal Toll Design for Bosphorus Crossings  
**Sosyoekonomi** (2022), 30(54), 121–144. (ESCI)
- On approximate Nash equilibria of the two-source connection game  
**Turkish Journal of Electrical Engineering and Computer Sciences** (2022), 30(6), 2206–2220. (SCI, Scopus)
- Location choice under spillovers (with B. Caskurlu)  
**Business and Economics Research Journal** (2022), 13(1), 1–9. (EBSCO, ABDC=C)
- On efficient computation of equilibrium under social coalition structures (with B. Caskurlu, F. Kizilkaya)  
**Turkish Journal of Electrical Engineering & Computer Sciences** (2020), 28(3), 1686–1698. (SCI, Scopus)

## Conference Proceedings

- How to allocate kidneys across multi-center queues: An axiomatic analysis (**July 8-12, 2024, Conference on Mechanism and Institution Design**), forthcoming
- Pair-efficient reallocation of indivisible objects (**ACM EC 2022**)  
Proceedings of the 23rd ACM Conference on Economics and Computation, 2022, 294.
- On singleton congestion games with resilience against collusion (with B. Caskurlu, F. Kizilkaya) (**COCOON 2021**)  
In C.-Y. Chen, W.-K. Hon, L.-J. Hung, & C.-W. Lee (Eds.), *Computing and Combinatorics: 27th International Conference*, Tainan, Taiwan, October 24–26, 2021, Proceedings (pp. 37–48). Springer International Publishing.
- On existence of equilibrium under social coalition structures (with B. Caskurlu, F. Kizilkaya) (**TAMC 2020**)  
In J. Chen, Q. Feng, & J. Xu (Eds.), *Theory and Applications of Models of Computation 2020*, pp. 263–274. Springer International Publishing.
- On envy-free outcomes in the random assignment Problem (**35th EBES**)  
In K. F. Zimmermann, J. Batten, I. Hasan, E. Quah, J. Rust, D. Schafer, & M. Vivarelli (Eds.), *Rome, Italy April 7-9, 2021, Program and Abstract Book* (p. 92). EBES Publications.

## Book Chapters

- School choice in Turkey in light of matching theory /Eşleştirme Teorisi ışığında Türkiye’de okul tercihi. In Ş. A. Koç, Ü. Çağlar, & A. Çevik (Eds.), *Current Debates in Social Sciences 2021* (First Edit, pp. 247–268). **IJOPEC** Publication No: 2021/07.
- The (im)balance of geographical population distribution in Turkey: A historical analysis based on the GINI coefficient. In Ş. Karabulut (Ed.), *İktisadi teori ve gelişmelere gelenekçi ve yenilikçi yaklaşımlar* (2021, pp. 279–295). **Gazi Kitabevi**
- On Singleton Congestion Games with Resilience Against Collusion (with B. Caskurlu, F. Kizilkaya). In: Chen, CY., Hon, WK., Hung, LJ., Lee, CW. (eds) *Computing and Combinatorics. COCOON 2021. Lecture Notes in Computer Science()*, vol 13025. **Springer**, Cham.
- On Existence of Equilibrium Under Social Coalition Structures (with B. Caskurlu, F. Kizilkaya). In: Chen, J., Feng, Q., Xu, J. (eds) *Theory and Applications of Models of Computation. TAMC 2020. Lecture Notes in Computer Science()*, vol 12337. **Springer**, Cham.

## Research Grants

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- Researcher in “TUBITAK (Grant 1001), 2018, Computation of Equilibria for Coalition Structures Arising from Social Contexts in Resource Selection Games” (grant 118E126)

## Professional Activities

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### *Ad-hoc Reviewing*

- Journal of Economic Theory, Quarterly Journal of Economics, Games and Economic Behavior, Journal of Mathematical Economics, International Journal of Game Theory, Economics Letters, Social Choice and Welfare, European Economic Review, Journal of Public Economic Theory, Marine Policy, Journal of Computational and Applied Mathematics

### *Ph.D. Committee Member*

- Damla Durak Uşar (Özyeğin, 2017)

### *Ph.D. Jury Member*

- Ahmet Usta (Özyeğin, 2019), Emrah Ahi (Özyeğin, 2016), Sait Şatiroğlu (Özyeğin, 2016)

### *Conference and Seminar Presentations (since 2021)*

Online Seminar, 35th EBES, Italy, 2021  
Online Conference, COCOON 2021, Taiwan, 2021  
Online Conference, Iğdir International Social Sciences, Turkey, 2021  
Online Seminar, Dept of Economics, Ozyegin University, Turkey, 2021  
Online Seminar, Dept of Economics, Nazarbayev University, Kazakhstan, 2021  
Seminar, Dept of Economics, Uludağ University, Turkey, 2022  
Online Seminar, Dept of Economics, Sabanci University, Turkey, 2022  
Seminar, Dept of Economics, TOBB ETU University, Turkey, 2022  
Seminar, Dept of Economics, Bilkent University, Turkey, 2022  
Conference, ACM EC 2022, Colorado University, Boulder, USA, 2022  
Seminar, Dept of Economics, Koc University, Turkey, 2023  
Workshop, Social Choice and Fair Division, Istanbul Technical University, Turkey, 2023  
Seminar, Dept of Economics, Bogazici University, Turkey, 2023  
Seminar, Dept of Natural and Mathematical Sciences, Ozyegin University, Turkey, 2023  
Conference, Conference on Mechanism and Institution Design, Budapest, Hungary, 2024  
Seminar, Dept of Economics, Sabanci University, Turkey, 2024  
Seminar, Dept of Economics, Stanford University, USA, 2025  
Seminar, Dept of Economics, Rice University, USA, 2025  
Seminar, Dept of Economics, WUSTL University, USA, 2025

## Teaching Experience

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### *Özyeğin University*

- Undergraduate: Economics, Microeconomics, Macroeconomics, Advanced Microeconomics, Game Theory
- MBA: Macroeconomics for Global Economy

### *Carnegie Mellon University*

- Undergraduate: Finance
- MBA & MSCF: Credit Derivatives (Recitation Leader)

## Other Info

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### *Languages*

- Turkish (native), English (Fluent), German (Upper Intermediate)

### *Software*

- Latex, MS Office, Visual Basic for Applications, MATLAB, C#, Java, Moodle, Pearson MyLab