



Duygu Sili
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Address
Koç University Rumeli
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Duygu Sili

PhD Candidate

About Me I am studying in economics doctoral program at Koç University. My interested area is on microeconomics, market design, matching theory and its applications and I expect to finish my PhD in August, 2022.

RESEARCH INTEREST

Professional

Microeconomics Theory, Mechanism/Market Design, Game Theory, Matching Theory, Social Choice and Its applications

Education

2015 - 2022 (expected), Koç University

PhD in Economics, Faculty of Economics, Administrative and Social Sciences

2013 - 2015, Bilkent University

MA in Economics

2006 - 2012, Bilkent University

BS in Mathematics

Teaching Experience

2015 - present, Teaching Assistant, Koç University

- Microeconomics Theory for Graduate Students Econ 503
- Microeconomics Theory Econ 201
- Econometric Econ 311
- Game Theory Econ 333

2013 - 2015, Teaching Assistant, Bilkent University

- Microeconomics Theory 1
- Introduction to Probability and Statistics 2
- Introduction to Economics I

Awards and Honors

2013, Full Merit M.A Scholarship, Bilkent University

Graduate School of Social Sciences and Humanities

2015, Full Merit PhD Scholarship, Koç University

Graduate School of Social Sciences and Humanities

Projects

Senior Projects, Mathematics in Bilkent University

- D.Sili, A.Kerimov, Graph Theory and Ramsey Coloring for Graphs, 2012
- D.Sili, S.Sertöz, Infinite Iterated Exponential and Lambert W function, 2011

As part of the course work for Networks in economics

D.Sili, R.İlkılıç, Project Proposal about Networks in Economic, 2013



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ERC-FUNDED Research Project at Koç University

Erdem Yörük, Research Assistant in the project “The Politics of Welfare in Emerging Market Economies”, April, 2021-January, 2022 .

Workshops and Conferences

EU-funded Training Workshops in Computational Social Sciences, Social ComQuant Project partners, GESIS – Leibniz Institute

Data Analysis and Scientific Programming with Python Workshop, December, 2021

EC, 2020

ACM Conference on Economics and Computation, 2020

ASSA, 2021

American Economic Association, 2021

Publications and Working Papers

Publications

- D.Sili, K.Yıldız, Impact of An Additional Donor in Lung/Kidney Exchange, 2015 (master thesis).
 - Analyzing matching model of Lung exchange by using additional donor in order to match patients coming with two donors to the exchange pool theoretically.
- D.Sili, Ö.Yılmaz, Incentives and Dynamic Form of Multi-Hospital Kidney Exchange, in preparation, 2022.
 - Answers to questions how to model kidney exchange when more than one hospital participates in the exchange pool of patient donor pairs dynamically and which incentives persuade some hospitals to join to the unified exchange. It aims to maximize total surplus of each hospital in a multi-hospital dynamic kidney exchange.
- D.Sili, M.Ali.Yıldırım, An Empirical Study of Interdistrict School Choice: A School Assignment Problem, in preparation, 2022.
 - Empirical study of a school choice modelling where schools and students allocated to more than one district and under some constraints, diversification of students among district is satisfied by a new mechanism.
- D.Sili, M.Ali.Yıldırım, An Empirical Study of Common Enrollment in School Choice: A School Assignment Problem, in preparation, 2022.
 - Empirical study of a school choice problem solved by presenting significant incentives to some schools persuade them from evading the general student optimal mechanism and this make better off students. Simulations helps there to observe the real life applications of the theory.

Qualifications

Computer Languages

Mat lab, Latex, Python, Java

Foreign Languages

Turkish (native), English (Fluent), German (intermediate – still learning)



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Graduate Courses

Graduate Courses

Dynamic Programming, Advanced Microeconomics Theory, Networks Model Optimization, Stochastic Models Applications, Economics of Information and Contracts, Interpolation and Approximation, Experimental Economics, Financial Economics, Advanced Macroeconomics Theory, Data science for Operational Research, Forecasting.