

DENİZ DURMUS

Economics PhD Candidate – Industrial Engineer, MSc

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Sarajevo, Bosnia-Herzegovina

Education

- 2020 – 2024 PhD, Economics
Sarajevo School of Science and Technology & University of Buckingham
Research interests: *complex systems, complexity economics, agent-based simulation, econometrics, macroeconomic models, systems dynamics.*
- 2014 – 2016 MSc., Industrial Engineering
Yasar University, Izmir/Turkey
Thesis (English): *On the Applicability of Simulation as a Verification Tool for Markovian Models of Production Systems* [[Click here to download](#)].
- 2010 – 2014 BSc., Industrial Engineering
Yasar University, Izmir/Turkey
Senior Project (in English and Turkish): *Increasing Efficiency and Effectiveness of Acceptance Sampling in Hugo Boss.*

Publications

Refereed Journal

- D. Durmus, (2021). Complexity in Economics and beyond: Review paper, *Heritage and Sustainable Development*, 3(1), 34–43. <https://doi.org/10.37868/hsd.v3i1.51>
- Durmus, D., Yeralan, S., & Korugan, A. (2016). Investigating the potential of state-truncation approximations for production lines. *Stochastic Modeling and Applications*, 20(2), 91-109.

Conference Proceedings

- Durmus, D. (2022). [An Overview on the Ramsey-Cass-Koopmans Model](#). Jahorina Business Forum 2022. ISSN 2303-8969.
- Durmus, D., (2018). [A Brief Review of Authoritarian Personality in Turkey](#). Fourth Sarajevo International Conference on Social Sciences. Sedef Bosnia.
- Durmus, D., Yeralan, S., & Heavey, C. (2017). *Investigating the Potential of State-truncation Approximations for Production Lines*. 11th Conference on Stochastic Models of Manufacturing and Service Operations, Acaya, Italy.
- Durmus, D., & Yeralan, S. (2016). *Uretim ve servis sistemlerinin rassal modellerinde benzetim gecerlemesinin sinirlari* (tr. The limits of simulation as a verification tool in stochastic models of manufacturing and service systems). 36th Conference on Operations Research and Industrial Engineering (YAEM), Izmir, Turkey.

Work Experiences

Academia

- 10/2022 - Mathematics Assistant
Faculty of Engineering and Natural Sciences | International University of Sarajevo
- MATH100 – Mathematical Skills
 - MATH101 – Calculus I
 - MATH201 – Linear Algebra
 - MATH203 – Introduction to Probability and Statistics
 - MATH205 – Numerical Analysis

- IE307 – Quality and Reliability Engineering
- IE408 – Project Management

- 01/2014 – 01/2015 *Project Assistant | Yasar University, Izmir*
- Coordinated a university-industry R&D project to build an Internet-connected automated weighing system for production poultry farms.
 - Handled budgeting and purchasing.
 - Responsible for reporting.
 - Negotiated with the clients.
 - Worked closely with Purchasing, Project, Finance Offices at Yasar University.

Industry

- 03/2019 – 01/2020 *Project Volunteer | Mak Dizdar Foundation, Sarajevo*
- Responsible for acquiring international sponsors.
 - Automated photo editing for a new website using Linux shell programming.
- 06/2017 – 09/2017 *EVS Volunteer | La Giraudiere, Brossac/France*
- Supporting the launch of an NGO that aims to promote entrepreneurship among the youth of rural France.
 - Tasked to find and reach out to potential sponsors for the project.
 - Responsible for financial checks and balances.
 - Managed daily office duties.
 - Publicity of the project in local newspapers, applicant relations.
- 2013 - 2015 *Various Part-Time Positions | Yasar University, Izmir*
- Finance Department: invoicing using SAP during the enrollment period.
 - R&D and Application Center: help incubator project proposal applicants, managed general office duties.
 - Public Relations Department: publicity of university and the department of Industrial Engineering, Master of Ceremonies at a national conference.
 - Radio: Co-producer and co-host of a weekly radio show on popular science.
- 09/2013 – 06/2014 *Senior Year Project Group Member | Hugo Boss Izmir*
- Team member of a senior project to find ways to increase the efficiency and effectiveness of quality control (AQL – acceptance sampling) operations.
 - Developed a software program for general use that calculates acceptance limits for a desired output quality level.

Skills, Certificates

Computer Skills

Programming Languages C\C++, Linux Shell, R, Python, Julia

Other LaTeX, Scilab

Certificates

- 11/2019 *Network Dynamics on Social Behavior*
6 week MOOC given by University of Pennsylvania on Coursera.
- 03/2019 *Introduction to Complexity*
MOOC given by the Santa Fe Institute.
- 2017 – 2018 Visiting Student, Political Science and International Relations
Sarajevo School of Science and Technology