

Eren Atsız

OPERATIONS RESEARCH · MACHINE LEARNING · SIMULATION

Istanbul, TURKEY

☎ (+90) 543-xxx-xxxx | ✉ eren.atsiz@ozu.edu.tr | 🏠 www.erenatsiz.co | 📄 erenatsiz | 🌐 eren-atsiz | 🎓 Eren Atsız

“one should only do that which truly fills our hearts with enthusiasm”

Education

Özyeğin University

M.Sc. IN DATA SCIENCE

- Cumulative GPA: 4.00/4.00 — *Expected: Valedictorian*
- Thesis: Machine Learning Framework to Risk-Averse Data-Driven Newsvendor Problem
Advisors: Prof. Erinç Albey and Prof. Enis Kayış

Istanbul, Turkey

Sep. 2019 - Present

B.Sc. IN INDUSTRIAL ENGINEERING & COMPUTER SCIENCE (MINOR)

- Cumulative GPA: 3.70/4.00 — *Summa Cum Laude (Top 1%)*

Sep. 2014 - Jun. 2019

Besiktas Ataturk Anatolian High School

MATH & SCIENCE

Istanbul, Turkey

Work Experience

Optiyol | AI for Transportation

OPERATIONS RESEARCH SCIENTIST

- Main responsibility is analytical consulting projects in the fields of operations research and data science.
- Working on forecasting, facility location, network design and routing problems (LTL, FTL and various type of VRP)

Istanbul, Turkey

Mar. 2019 - Present

Unilever

SENIOR DESIGN PROJECT ENGINEER

- Senior Design Project with Unilever Supply Chain Department. Project: “Supply Chain Segmentation”
- The decision support system proposing strategic decisions was made using R shiny in AWS cloud environment, so that clustering algorithms could run in real time.

Istanbul, Turkey

Oct. 2018 - Jun. 2019

Invent Analytics

DATA SCIENCE INTERN

- Provided advance analytics solutions for retailers to enable them with maximum profitability with data-driven pricing and inventory planning.
- The markdown optimization project, which includes various estimation, data mining and optimization algorithms that will significantly improve the overall prediction accuracy, was performed using Random Forest, XGBoost and similar algorithms.

Istanbul, Turkey

Jun. 2018 - Oct. 2018

BWF Group

OPERATIONS RESEARCH INTERN

- Provided support for the creation of an automatically and optically fault detection system.
- Ensured flow optimization of the production goods based on a given constraints and criteria.
- Took active role in the digital shift planning.
- Provided diverse alternatives in order to implement waste optimization.

Munich, Germany

Jun. 2018 - Aug. 2018

Credit Europe Bank

CORPORATE BANKING INTERN

- Completed an internship program for selected high honor students in Credit Europe Bank Head Office in Bucharest.
- Visited all departments and observed the processes being conducted.

Bucharest, Romania

Aug. 2017 - Sep. 2017

FIBA Group

FINANCE INTERN

- Examined and contributed to finance process and strategies of Fiba Group.

Istanbul, Turkey

Jul. 2016 - Aug. 2016

Invited Talks

INFORMS Annual Meeting 2020

CONFERENCE SPEAKER

- Presentation Title: A Rank Aggregation Based Ensemble Method for Music Genre Classification

Washington, DC (Virtual)

Nov. 2020

- Presentation Title: Effective Training Methods for Automatic Musical Genre Classification

Teaching Assistant

GRADUATE

2019-21	IE 362 , Risk Management	OzU
2019-21	IE 383 , Decision Support Systems	OzU
2020	IE 246 , Programming for Operations Research	OzU

UNDERGRADUATE

2017	IE 203 , Engineering Economy	OzU
2018	IE 341 , Data Science for Business Analytics	OzU
2015-19	BUS 101 , Introduction To Business I (Decision Making)	OzU

Publications

2019	Atsiz, E., Albey, E., Kayis, E. , Effective Training Methods for Automatic Musical Genre Classification • <i>In Proceedings of the 8th International Conference on Data Science, Technology and Applications - Volume 1: DATA</i>	Published
2020	Atsiz, E., Balcik B., Gunnec D., Sevindik B. , A Coordinated Repair Routing Problem for Post-Disaster Recovery of Interdependent Infrastructure Networks • <i>Annals of Operations Research</i>	Published
2021	Atsiz, E., Albey, E., Kayis, E. , A Rank Aggregation Based Ensemble Method for Music Genre Classification	Submitting Phase
2021	Atsiz, E., Sen, E., Albey, E., Ozener, O.O. , Customer Retention Prediction based on Latent Reward-tendency Profiles	Submitting Phase
2021	Atsiz, E., Albey, E. , A Discounting Mechanism for Revenue Smoothing in an Omni-Channel Supply Chain	Submitting Phase
2021	Atsiz, E., Albey, E., Kayis, E. , Machine Learning Framework to Risk-Averse Data-Driven Newsvendor Problem	Ongoing Research

Extracurricular Activity

Ozu Industrial Engineering Club (Ozu OR)

Istanbul, Turkey

PRESIDENT & CORE MEMBER

Jun. 2016 - Oct. 2017

- Coordinated the relations with companies and other student clubs with weekly/monthly meetings in order to organize events, case studies etc.

MUDEK (Association for Evaluation and Accreditation of Engineering Programs)

Istanbul, Turkey

STUDENT EVALUATOR

Sep. 2018 - Sep. 2019

- Participate as the evaluator student, chosen by Engineering Faculty of Özyeğin University, on behalf of MUDEK.

Honors & Awards

2020	2nd Place , Yandex Music Hackathon	Istanbul, Turkey
2018	3rd Place , Invent Analytics AlgoRun'18 Hackathon	Istanbul, Turkey
2015-19	Dean's High Honour List , Özyeğin University Engineering Faculty	Istanbul, Turkey
2015-19	Undergraduate Academic Merit Scholarship , Özyeğin University (Top three in the faculty - Each year)	Istanbul, Turkey

Skills

Web	HTML, Django with Python, Shiny with R
Languages	Turkish (Native), English (Full Professional Proficiency), German (Beginner)
Simulation	Simpy, Arena Simulation Software, Simio
Optimization	CPLEX, Gurobi, Baron, Knitro, AMPL, GAMS, Pyomo, Julia
Programming	<u>Advance</u> : Python, R, Java, Matlab, SQL <u>Intermediate</u> : C++, VBA

References

Erinç Albey

Assistant Professor
Department of Industrial Engineering
Özyeğin University
Istanbul, Turkey
erinc.albey@ozyegin.edu.tr

Enis Kayış

Assistant Professor
Department of Industrial Engineering
Özyeğin University
Istanbul, Turkey
enis.kayis@ozyegin.edu.tr

Burcu Balçık

Associate Professor
Department of Industrial Engineering
Özyeğin University
Istanbul, Turkey
burcu.balcik@ozyegin.edu.tr

Okan Örsan Özener

Associate Professor
Department of Industrial Engineering
Özyeğin University
Istanbul, Turkey
orsan.ozener@ozyegin.edu.tr

Tuba Gözbaşı

Assistant Professor
Department of Business Administration
Özyeğin University
Istanbul, Turkey
tuba.gozbasi@ozyegin.edu.tr