

EDUCATION

University of Edinburgh (UoE), Edinburgh (September 2023-August 2024)

• MSc in Computational Applied Mathematics: Distinction Grade (%75.4) (Equivalent to 3.70-4.00 GPA)

Relevant Coursework: Industrial Mathematics, Stochastic Differential Equations, Uncertainty Quantification, Methods for Causal Inference, Numerical Methods for Data, Research Skills for CAM, Bayesian Theory

Bogazici University, Istanbul (September 2018- June 2023)

• BSc in Industrial Engineering (Admission requires ranking in the top 0.05% in the National University Admission Exam) GPA: 3.56/4.00

Relevant Coursework: Operations Research, Object Oriented Programming , Systems Science & Simulation, , Advanced Probability & Statistics, Agent Based Modelling, Statistical Forecasting and Time Series, Queuing Theory Studies

• Minor Degree in Economics: GPA: 3.75/4.00 (Focus: Game Theory & Macroeconomics)

Technical University of Munich (TUM) (April 2021 - August 2021)

• Erasmus-Exchange Study

Relevant Coursework: Machine Learning Methods and Tools, Graphical Models in Statistics

RESEARCH & INDUSTRY EXPERIENCE

University of Edinburgh (2024 June-August)

MSc Thesis Study (Under Dr. Michael Nicholson & Dr. Craig Anderson from Institute of Genetics and Cancer)

• Developed efficient simulation algorithms in Python using parallel programming to model mutation accumulation in human DNA

• Implemented statistical estimators to be used in patient cohorts with cancers of unknown origin, identifying whether the cause is due to external or internal factors

• Validated the estimator using simulated data, demonstrating accuracy across various biological scenarios and highlighting specific conditions where performance may decline

Bogazici University, Istanbul (2023 February-June)

Teaching Assistant (IE 306.02: Systems Simulation, Organised by Dr. Aybek Korugan)

• Supported the course focused on stochastic processes, queuing theory, discrete event simulations, and statistical analysis for Computer Science students.

• Developed applied, real-world problems for assignments by researching course material, graded assignments, and provided feedback to students

• Managed large datasets, data manipulation and cleaning for assignment preparation

ortak, Istanbul (2022 September-October)

Founder's Team: Strategy Intern

• Worked directly with the CEO and CPO, and contributed to the launch of an innovative FinTech platform

• Actively involved in every aspect of the startup, including competitor analysis, product roadmap, regulatory design

• Delivered thorough market insights on financial technologies to shape the platform's strategic direction

Insider, Istanbul (2022 January-May)

CEO's Executive Office: Strategy Intern

• Worked directly with the COO and CEO for a MarTech scaleup valued at over \$1B. Regularly synthesised insights from complex data analyses, crafting coherent stories and constructing persuasive arguments for presentations to C-Suite

• Developed and refined key communication materials including investor updates, board meeting briefs, shareholder gatherings

• Prepared and graded quantitative case studies for candidate assessments across all levels in the strategy department, and assisted in interviews

Yemeksepeti, Istanbul (Delivery Hero Turkish Subsidiary) (2020 October-November)

System Analyst Intern

• System analysis, requirement gathering, functional design preparation for mobile application development and maintenance

• Participated in backlog grooming activities and agile SCRUM ceremonies such as daily standups, sprint review, sprint planning

VOLUNTEER EXPERIENCE

University of Edinburgh:

• Participated in two sessions for prospective students of the MSc programme, sharing experiences and insights as programme ambassador

• Featured in video testimonials and promotional content, contributing to outreach efforts

Bogazici University Music Association (BUMK):

• Vocals for a band (over 30+ live performances) (2019-2024)

• Founder & Director of Sponsorship Committee (2019-2021)

Bogazici University Radio Club

• Radio Host (2017-2020)

CERTIFICATES & ACHIEVEMENTS

Strategic Management Certificate, LSE Summer School (2018)

• Received A+ Grade, within the top 5% of participants

University Admission Exam (2017)

• Ranked in top 500 in 7 different exams among 2 million candidates

• Awarded Presidential Scholarship for 5 years for outstanding success

Deutsches Sprachdiplom Stufe II, (German Language C1 Advanced Level Certificate) (2017)

High School Admission Exam (2011)

• Ranked in 1st place in Turkey (shared with 350 others) among 1 million candidates

• Secured admission into Cagaloglu High School, one of the oldest and internationally renowned elite high schools of Turkey

TECHNOLOGIES

Programming Languages: Python, R, SQL, C, Julia

Data Science & Analytical Tools: NumPy, PowerBI, pandas, Sci-Py, scikit-learn, Matplotlib, seaborn, ggplot2, joblib, Plotly

Version Control & Collaboration: Git, G-Suite, Microsoft Office, JIRA