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Mehmet Ozan Baykan

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EDUCATION

B.Sc. in Mathematics

Bilkent University

Grade: 3.06/4.00

September 2019 - June 2024 (expected)

Ankara, Turkey

B.Sc. in Mathematics

Heidelberg University, ERASMUS+ Exchange Semester

April 2023 - September 2023

Heidelberg, Germany

High School

TEV Inanc Turkes High School

September 2013 - June 2018

Kocaeli, Turkey

Independent private co-educational boarding school for the gifted and talented in Turkey
Bilingual IB Diploma in English & Turkish

RELEVANT COURSEWORK

IE448 - Financial Issues in Engineering Projects, Dr. Semih Ergür

Bilkent University

EEE485 - Statistical Learning and Data Analytics, Prof. Cem Tekin

Bilkent University

EEE443 - Neural Networks, Prof. Ömer Morgül

Bilkent University

IE440 - Introduction to Financial Engineering, Prof. Çağın Ararat

Bilkent University

IE421 - Introduction to Stochastic Processes, Prof. Çağın Ararat

Bilkent University

Corporate Finance, Dr. Pascal Kieren

Heidelberg University

Machine Learning Essentials, Prof. Ulrich Köthe

Heidelberg University

Computational Statistics and Data Analysis, Prof. Daniel Durstewitz

Heidelberg University

WORK EXPERIENCE

Undergraduate Research Assistant

July 2022 - March 2023

MIDST Lab @ Sabancı University

İstanbul, Turkey

- Investigated the biophysical mechanisms underlying TMP resistance among E. Coli DHFR mutants by physics-informed analysis of Molecular Dynamics (MD) simulation data.
- Tools: Python, ProDy, VMD

Undergraduate Researcher / iGEM Team Member

April 2021 - September 2022

Synthetic Biosystems Laboratory @ Bilkent University UNAM

Ankara, Turkey

- Collaborated with a multidisciplinary team of bachelor students in an independent research project in therapeutic applications of bacterial neurotoxins for the prestigious iGEM Competition (<https://competition.igem.org/>)
- Responsible for mathematical and computational modeling and conducting wet-lab experiments.

Tutor for CS115 - Introduction to Programming in Python

January 2021 - June 2021

Bilkent University

Ankara, Turkey

- Organized and helped students in weekly online coding sessions in coordination with professors and teaching assistants

Supply Chain Intern

July 2017

Sealed Air

İstanbul, Turkey

- Shadowed employees in different ranks during daily tasks and meetings as a high-school student interested in operations management

PROJECTS

Senior Project on Wigner's Semicircle Law

September - December 2023

Bachelor's Thesis

- Explored literature on measure-theoretic foundations of probability theory and random matrix theory.
- Research culminated in a self-contained, mathematically rigorous proof of limiting spectral distribution of Wigner matrices.
- Advised by Professor Aurelian Gheondea

EXTRACURRICULAR ACTIVITIES

President

Bilkent Synthetic Biology Society

September 2021 - June 2022

Ankara, Turkey

Member

Bilkent Music Society

September 2020 - Present

Ankara, Turkey

Bassoon Performance Student

Guher & Suher Pekinel Department of Music

September 2013 - June 2018

Kocaeli, Turkey

VOLUNTARY WORK

Instructor

Introductory Camp in Biotechnology for Middle Schoolers

April 2022

Ankara, Turkey

Instructor

Muallimkoy Education Project

September 2016 - June 2018

Kocaeli, Turkey

SKILLS

Language

Turkish (native), English (TOEFL 112/120), German (A2)

Programming

Python, Matlab, SQL, Power BI, Tableau

Technical Skills

Mathematical and Statistical Modeling, Data Analysis, Machine Learning (TensorFlow, PyTorch)

Other

L^AT_EX, MS Excel, MS Powerpoint