

BURAK AYDIN

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EDUCATION

Princeton University

Ph.D. in Operations Research and Financial Engineering (GPA: 3.95/4.00)

Advised by Ronnie Sircar. Coursework in Optimization, Probability, Stochastic Calculus, Statistics, Computational Finance, Risk Management, Asset Pricing, PDE Methods.

Princeton, NJ

Aug 2023 - Present

Bogazici University

B.S. degree in Electrical and Electronics Engineering, High Honors (GPA: 3.90/4.00)

Minor degree in Economics (GPA: 4.00/4.00)

Istanbul, Turkey

Aug 2019 - Jun 2023

Kadikoy Anatolian High School

High School Diploma, Valedictorian (Class Rank: 1/333)

Istanbul, Turkey

Sep 2014 - Jun 2019

EXPERIENCE

Princeton University

Assistant in Instruction

Princeton, NJ

Aug 2024 - Present

- Teaching assistant of ORF 363 / COS 323: Computing and Optimization for Fall 2024 and Spring 2025.

Bogazici University - Photonics and Optical Wireless Communication Laboratory

Undergraduate Research Assistant

Istanbul, Turkey

Sep 2022 - Jun 2023

- Editor's Choice Award from Photonics journal.
- Senior design project on Vehicle-to-Vehicle Communication, focusing on field-of-view limitations on curvy roads.
- Worked on hardware and software aspects for the project, used MATLAB for modeling.

Max Planck Institute for Intelligent Systems

Undergraduate Research Intern at Physical Intelligence Department

Stuttgart, Germany

Jul 2022 - Sep 2022

- Utilized Python and Robot Operating System in order to construct a closed-loop controller with visual feedback, ran systematic experiments.
- Employed Machine Learning tools to achieve real-time data processing and decision making for robot motion.

Kusto Group Singapore - KGM Energy

Energy Operations Intern

Istanbul, Turkey

Jan 2022 - Feb 2022

- Developed company decisions regarding production, distribution and sales of electrical energy in Turkey. Worked on electricity market structure and price setting.

Bogazici University Electrotechnology Club - IEEE Student Branch

Coordinator and Active Member

Istanbul, Turkey

Sep 2019 - Jun 2022

- Co-led the event organization committee to connect 100 university students with executives from various fields & internship opportunities, and to hold regular meetings. Organization team member in Leading Women in Science and Technology Summit, Bogazici Energy Summit.

ACHIEVEMENTS AND SCHOLARSHIPS

6th place in Turkish University Entrance Exam 2019: Among 2,528,031 test takers, 6th place in Quantitative, 1st in English Language section.

Turkish Presidential Outstanding Success Scholarship: Recipient of financial scholarship for duration of undergraduate degree.

Bogazici University Outstanding Success Scholarship: Recipient for duration of excellent academic standing: covers general room, board and book expenses.

Turkiye Is Bankasi Golden Youth Award: Awarded for distinguished success in Turkish University Entrance Exam by Isbank, the largest Turkish private bank.

SKILLS AND INTERESTS

Programming Languages: Python, MATLAB, C/C++, R.

Languages: Turkish (native), English (full proficiency), Spanish (intermediate), German (intermediate), Greek (beginner).

ADDITIONAL COURSEWORK

Yale University: Moral Foundations of Politics.

Rice University: Relationship Management. Self Awareness and the Effective Leader.