

Barış Cem Bakay

bbakay22@ku.edu.tr • [LinkedIn](#) • [GitHub](#)

Education

Koç University

Sarıyer, Istanbul

Computer Engineering. Double Major in Physics. Artificial Intelligence Track. GPA: 4.0 / 4
Expected Graduate: 2027

Research Experience

Koç University

Sarıyer, Istanbul

Research Internship

July 2025 - Present

- Studied on a research project developing a Multimodal LLM in the field of digital pathology. Developed a Chatbot UI. Took part in the processing of whole-slide images and annotations. Visualized the mechanism for processing large whole-slide images and models outcomes for paper.
- Worked on a HPC (High Performance Computing) Cluster, got used to Linux machines. Used different dimension reduction techniques, and got familiar with some Python libraries (torch, numpy, sklearn etc.)

Publications

- Ali Kerem Bozkurt, Baris Cem Bakay, Ibrahim Kulac, Cigdem Gunduz-Demir, Erkut Erdem, Aykut Erdem, "Scalable Whole-Slide Vision-Language Modeling with Learned Token Pruning", *The Second Workshop on GenAI for Health: Potential, Trust, and Policy Compliance (NeurIPS 2025)*, San Diego, December 2025.

Work Experience

Koç University

Sarıyer, Istanbul

Teaching Assistant

- COMP 132: Assisted in teaching an advanced programming course focused on object-oriented programming principles using Java language.
- UNIV 199: Assisted basics of python programming language to undergraduate students.
- DOS 171: Taught bridge to undergrad students and facilitated regular practice sessions.

Leadership & Activities

Koç University Mountaineering Club

Sarıyer, Istanbul

President & Board Member

October 2023 - January 2025

- Leading and organized club activities, mostly focused on rock climbing, mountaineering, trekking, hiking and camping. Managed club operations, including budgeting, event scheduling and member engagement.

Other

Technical: Programming Languages: Java, C, Python, Matlab. 3D design with Solidworks and Fusion.

Language: English: Advanced, German: Beginner

Awards & Honors: Ranked 20th in the Turkish National University Entrance Exam (YKS). Awarded the Koç University Anatolian Scholarship.