

Umur Yıldız

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EDUCATION

Bilkent University

Master of Arts in Neuroscience

Ankara, Turkey

Sep. 2025 – Sep. 2027 (Expected)

Bilkent University

Bachelor of Arts in Psychology, Minor in Software Development

Ankara, Turkey

Jan. 2020 – Jan. 2024

Neuromatch Academy Summer School

Computational Neuroscience (2023), Deep Learning (2024), NeuroAI (2025)

Remote

Summer 2023, 2024, 2025

EXPERIENCE

Research Assistant

Cognitive Computational Neuroscience Lab, UMRAM, Bilkent University

Ankara, Turkey

July 2023 – Present

- Analyze high-dimensional fMRI data with machine learning approaches and implement novel geometric data collection methods.
- Integrate Turkish LLM systems with social robots for low-latency, real-time, multimodal, human-robot interaction.

Teaching Assistant & Lab Tutor

Bilkent University

Ankara, Turkey

Aug. 2023 – May 2024

- Assisted over 110 students as a Lab Tutor and Recitation Instructor for CS115: Introduction to Programming in Python and CS125: Introduction to Data Analysis for Social Sciences.

Contract Data Analyst & Software Developer

Various Platforms

Remote

May 2022 – July 2024; Sep. 2024 – May 2025

- Provided Reinforcement Learning from Human Feedback (RLHF) annotations for structured data generation, math, and coding for Large Language Models (LLMs) in Turkish.
- Provided contract freelance frontend development services by refining AI-generated code suggestions into production-ready user interfaces.

PUBLICATIONS

Yıldız, U., Kelbakh, A., Yuce, B., & Zhuang, T. (2025). *Representation of semantic encoding in low and intermediate-level visual regions* [Preprint]. doi.org/10.5281/zenodo.15315748

AWARDS & HONORS

TÜBİTAK 2247-C STAR Young Researcher Scholarship

Full Scholarship for B.A. and M.A. studies at Bilkent University

High Honors Graduate (Psychology & Software Development)

TECHNICAL SKILLS

Programming Languages: Python, C++, MATLAB, SQL

Data Science & ML: PyTorch, Keras, Pandas, NumPy, Scikit-learn, Dspy

Neuroscience Tools: PyMVPa, CoSMoMVPa, FSL, SPM

Data Visualization: Matplotlib, Seaborn, Plotly, Tableau