

Deniz Nazar (Nazarova)

PhD Student, University of Washington | denizn@cs.washington.edu |  |  |  | 

Research Interests

AI Safety, Security & Reliability, LLM Red Teaming, Abstention, Human-Centered NLP, Proactive Learning

Education

University of Washington Sept 2024–present
PhD in Computer Science GPA: 3.84/4.0.
Advisors: Yulia Tsvetkov, Tim Althoff

American University of Central Asia 2018–2023
Bachelor's Degrees in Software Engineering and Psychology, *summa cum laude* GPA: 3.91/4.0.
Advisors: Almaz Bakenov, Elena Kosterina (AUCA); Dimitri Kanevsky, Artem Dementyev, (Google Research)
Theses: Application of Artificial Intelligence in Mental Healthcare: GPT-3 and Cognitive Distortions.

Work Experience

Data Engineer | *UN Women, Europe and Central Asia* May–Oct 2024
Designed and deployed a web scraping and data processing pipeline for femicide cases from news sources.

Data Engineer | *EPAM Systems* Jan–Jul 2024
Engineered high-throughput data pipelines using Kafka producers/consumers and Spark (SQL, DataFrames), with scalable storage and querying via Azure Blob Storage and Azure SQL Database.

Machine Learning Engineer | *EIWA AI Doula* Sep 2023–Sep 2024
Post-trained an LLM agent for pregnancy guidance and integrated knowledge graphs to support decision-making in postpartum mental health (**top-5 at the Glovo KG Startup Competition (out of 250+)**).

Machine Learning Engineer | *USAID WSpark* May 2023–Dec 2023
Developed Kyrgyz-language NLP systems, contributed to public datasets, and optimized production backends.

Summer ML Intern | *Neuromatch* 2021, 2024
(2024) Evaluated Hebbian and SoftHebbian learning as biologically plausible alternatives to backpropagation.
(2021) fMRI neural classifier distinguishing language vs. math tasks (93%; **Best Internship Award, AUCA**).

Publications

Nazarova, D., [...], Althoff, T., Tsvetkov, Y. (2026). It's What's Not in The Prompt: LLM Risk Assessment Framework in Mental Health Conversations under Uncertainty. *In preparation*.

Nazarova, D. (2023). Application of Artificial Intelligence in Mental Healthcare: Generative Pre-trained Transformer 3 (GPT-3) and Cognitive Distortions. In: Arai, K. (eds) *Proceedings of the Future Technologies Conference (FTC) 2023, Volume 1* (FTC 2023, Lecture Notes in Networks and Systems, vol. 813). Springer, Cham. https://doi.org/10.1007/978-3-031-47454-5_16

Selected Honors & Awards

(2024) **First-Year Ph.D. Fellowship**, Paul G. Allen School of Computer Science and Engineering

(2023) **Best Thesis Award**, American University of Central Asia

(2018) **Golden Certificate Scholarship, President of the Kyrgyz Republic**, ranked 3rd nationwide.

Skills

Programming languages: Python, SQL, Git, Latex (proficient); C++, Java, JavaScript, R, Bash (experienced)

Natural languages: English (C2), Russian (native), Kyrgyz (B2), Turkish (A2), French (A2)