a.barseghyan@ysu.am

Faculty of Mathematics and Mechanics
Center for Mathematical and Applied Research
Junior Researcher

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Education

Institution	- Other -
Faculty	Atomic and Molecular Physics
Date	2020 - 2022
Degree name	PhD student

Institution	- Other -
Faculty	Chemical Physics
Date	2018 - 2020
Degree name	Masters

Institution	- Other -
Faculty	Biological and Medical Physics
Date	2014 - 2018
Degree name	Bachelor

Work experience

Institution	Yerevan State University, Center for Mathematical and Applied Research, Machine Learning for Aerial Robotics group
Period of time	2024 till now
Rank/degree	Junior Researcher

Participation in international conferences and seminars

12/09/2025 - 13/09/2025	DataFest Yerevan 2025. Talk: “Less is More? Data Specialization for Various Modalities” Woods Center, Yerevan Armenia

Other information

Research focuses on computer vision, self-supervised visual representation learning, remote sensing, language modeling, and uncertainty quantification.

PhD studies: Yerevan State University, Faculty of Mathematics and Mechanics, since 2025. Thesis: Data selection for self-supervised learning. Previous PhD studies: Moscow Institute of Physics and Technology, Atomic and Molecular Physics, 2020–2022.

Professional experience:
2022–present: CV Research Engineer / ML Researcher, YerevaNN Research Lab, Yerevan.
2022–present: University Lecturer, Yerevan State University. Courses include Statistical Modeling, Statistical Programming, Python, and Data Science; teaching-assistant experience in Algorithms and Data Structures.
2023–present: AI and Python Teaching Specialist, FAST Foundation, Generation AI.
June 2026: AI Literacy Trainer.
2021–2022: AI/ML Researcher, Magical Labs, Yerevan.
2018–2022: Researcher, MIPT Laboratory of Supercomputer Methods in Condensed Matter Physics, Moscow.
2018–2021: Data Analyst, MIPT Analytical Center, Moscow.

Recipient of the LayerSwap Fellowship at YerevaNN in 2024.

Languages: Armenian, Russian, English.

Google Scholar: https://scholar.google.com/citations?user=jooRCuoAAAAJ&hl=en

Publications