

PERSONAL INFORMATION

Gor Kharatyan

 David Anhaght. 10, 7nd Block, Yerevan, 0037, Armenia

 +37477349592

 gor.kharatyan@rau.am

 [State personal website\(s\)](#)

 [WhatsApp +37477349592](#)

Sex Male | Date of birth 06.02.2000 | Nationality Armenian

POSITION

Junior Researcher

WORK EXPERIENCE

2019-Present

Engineer

A.I. Alikhanyan National Science Laboratory (Yerevan Physics Institute), Yerevan, Armenia

- Production and research of radioisotopes
- Production system automation

2021-2022

Junior Researcher

Institute of Radiophysics and Electronics, Ashatarak, Armenia

- Measurement of properties of semiconductors at extremely low temperatures
- single photon detectors

2022-2023

Laboratory assistant

Russian-Armenian University, Yerevan, Armenia

- experience in optics

EDUCATION AND TRAINING

2021 – Present

Pursuing a Master's degree at the Department of General Physics and Quantum Nanostructures

Equivalent to
EQF level 7

Russian-Armenian University, Yerevan, Armenia

- Quantum Confined Systems
- Quantum Optics
- Quantum Control
- Quantum Decoherence Sources

2017 – 2021

Graduated from the Department of General Physics and Quantum Nanostructures

Equivalent to
EQF level 6

Russian-Armenian University, Yerevan, Armenia

- Nanoelectronics
- Quantum Mechanics
- Condensed Matter Physics

PERSONAL SKILLS

Mother tongue(s) Armenian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Independent user	Independent user	Basic user	Basic user	Basic user
	A2-B1				
Russian	Independent user	Independent user	Independent user	Independent user	Independent user
	B2				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

- Communication skills**
- Developed strong verbal communication skills through organizing/participating in scientific outreach activities and as an operations manager.
 - Developed excellent written communication skills through international correspondence related to my research, organization/participation in scientific outreach activities and as an operations manager.

Organizational/managerial skills

Job-related skills

- Quantum Physics: I have expertise in investigating quantum dots , quantum control of QD systems, and using semiconductor quantum dots for quantum information and devices. I have skills in conducting experiments and analyzing data.
- Calculation Methods: I have experience using various calculation methods such as envelope function approximation, effective mass approximation, finite element method, variational methods, and density matrix method. I'm also proficient in software such as Wolfram Mathematica.
- Scientific Writing: I have published some scientific papers in reputable journals, demonstrating my skills in presenting complex concepts clearly and concisely, formatting papers according to journal guidelines, and following academic writing conventions.
- Research Skills: I have experience in conducting independent research, designing experiments, analyzing data, and collaborating with other researchers.

Computer skills

- Software Tools: Wolfram Mathematica - gained proficiency through coursework, self-study, and hands-on experience in research projects.
- Laboratory Equipment: Oscilloscopes, function generators, power supplies - gained skills in undergraduate studies, applied in research projects.

Other skills

- Teamwork: I have experience working in teams in academic, research, and organizational settings, collaborating with diverse team members, contributing to team goals, and resolving conflicts.
- Adaptability: I have experience adapting to new environments, cultural contexts, and work requirements, such as during my research visits to international universities and participation in cross-cultural projects.
- Critical Thinking: I have experience applying critical thinking skills in various contexts, such as in designing experiments, analyzing data, solving problems, and evaluating arguments.
- Creativity: I have experience in generating creative solutions to problems, such as in developing research hypotheses, designing experiments, and presenting research findings.

Publications

- Kharatyan, G.T., Gevorkyan, G.S. & Mantashyan, P.A. Calculation of Biexciton Binding Energy in a Cylindrical Quantum Dot with a Mors Potential. J. Contemp. Phys. 56, 214–220 (2021). <https://doi.org/10.3103/S1068337221030142>
- Gevorkyan, G.S., Kharatyan, G.T. & Tevosyan, O.K. Magnetic Absorption and Photoluminescence in a Cylindrical Quantum Dot with a Modified Peschl–Teller Potential. J. Contemp. Phys. 56, 221–227 (2021). <https://doi.org/10.3103/S1068337221030105>

- Projects**
 - 2022-present – Participant in Horizon 2020 WIDESPREAD-05-2020 Twinning Program, NanoQIQO, Twinning towards the Russian-Armenian University's scientific excellence and innovation capacity in nanomaterials for quantum information and quantum optics.

- Conferences
Seminars**
 - 1/f Noise from Condensed Matter Physics to Quantum Technologies, "Calculation of Biexciton Binding Energy in a Cylindrical Quantum Dot with a Mors Potential" (Poster), April 24-30, 2022, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Italy
 - 18th International Young Scientist Conference Developments in Optics and Communications, "Fast Thermoelectric Detectors for UV Radiation" (Poster), April 21-22, 2022, Riga, Latvia.

- Honours and awards**
 - 2021 – "Scholarship in the name of S. G. Kocharyants" for academic excellence.

- Memberships**
 - 2018 - 2019 Member of RAU OSA Student Chapter
 - 2018 - 2022 Member of RAU & NAS SPIE Student Chapter