

PERSONAL INFORMATION

Eduard Hakobyan



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 [linkedin.com/in/eduard-s-hakobyan/](https://www.linkedin.com/in/eduard-s-hakobyan/)

Sex Male | Date of birth 14/02/1993 | Nationality Republic of Armenia

POSITION
PREFERRED JOB

Researcher/ Lecturer/

WORK EXPERIENCE

from 2024 – up to now

Researcher

Institute of Chemical Physics after A.B. Nalbandyan National Academy of Sciences of Armenia

Quantum Materials and NanoPhotonics

- Research

Business or sector Science

from 2021 – up to now

Lecturer

Russian - Armenian (Slavonic) University

Department of General Physics and Quantum Nanostructures

- Research

Business or sector Education

from 2019 – up to now

Assistant at the Educational Laboratory

Russian - Armenian (Slavonic) University

Department of General Physics and Quantum Nanostructures

- Research

Business or sector Education

from 04/2019 – to 12/2019

Consultant in physics

OSSO (StartUp)

- Research

Business or sector Business

EDUCATION AND TRAINING

from 02/2022- to 07/2022

Direct laser writing of optical micro-ring resonators in polymers
containing quantum dots

EQF level 8

Vrije Universiteit Brussel

Department of Applied Physics and Photonics (TONA) (Belgium)

- High resolution direct laser writing with two photon polymerization (2PP) technique
- dip-in laser lithography (DILL)
- microfabrication with Nanoscribe Professional GT+ machine

from 2017 - to 2020
from 2023 – to 2024

Ph.D. student in Semiconductor Physics

Ph.D.

Russian - Armenian (Slavonic) University
Department of General Physics and Quantum Nanostructures

- Non-linear optics
- Quantum nanostructures
- Perovskite

from 2013 - to 2015

Master of Technologies in Electronics and Nano electronics

Master degree

Russian - Armenian (Slavonic) University
Department of General Physics and Quantum Nanostructures

- Kohn's theorem
- Ellipsoidal quantum dot

from 2013 - to 2015

Bachelor of Technologies in Electronics and Micro electronics

Bachelor degree

Russian - Armenian (Slavonic) University
Department of General Physics and Quantum Nanostructures

- Synthesis polycrystals (YAG:Ce, LuAG:Ce)
- Laser ablation in liquid

PERSONAL SKILLS

Mother tongue(s) Armenian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
Replace with name of language certificate. Enter level if known.					
Russian	C2	C2	C2	C2	C2
Replace with name of language certificate. Enter level if known.					

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

Communication skills

- good communication skills gained through my experience as a lecturer, participation and organization at conferences

Computer skills

- Wolfram Mathematica, MATLAB
- LabView, Arduino, Lumerical, COMSOL
- Space Claim, Fusion360, AutoCad, Cura

Driving licence

- B, C

ADDITIONAL INFORMATION

<p>Publications</p>	<ul style="list-style-type: none"> • Hakobyan, E. S., Baghdasaryan, D. A., Kazaryan, E. M., Mantashyan, P. A., & Hayrapetyan, D. B. (2023). Nonlinear optical properties of coupled quantum dots in peanut configuration. Philosophical Magazine, 103(20), 1911-1926. (DOI: 10.1080/14786435.2023.2243451) • Kharatyan, G. T., & Hakobyan, E. S. (2023, June). Intraband absorption of GaAs cylindrical quantum dot with Kratzer confinement potential in the presence of external electric and magnetic fields. In Quantum Optics and Photon Counting 2023 (Vol. 12570, pp. 117-125). SPIE. (DOI:10.1117/12.2665467) • D. A. Baghdasaryan, E. S. Hakobyan, D. B. Hayrapetyan, I. V. Iorsh, I. A. Shelykh, and V. Shahnazaryan "Tunable strongly interacting dipolar excitons in hybrid perovskites" Phys. Rev. Materials 6, 034003, 2022 (DOI: 10.1103/PhysRevMaterials.6.034003) • E. S. Hakobyan «Nonlinear optical properties of cylindrical quantum dot with Kratzer confining potential in the presence of axial homogeneous electric field» Journal of Physics: Conference Series (JPCS), 1326 (1), 012008., 2019 (DOI:10.1088/1742-6596/1326/1/012008) • D. A. Baghdasaryan, E. S. Hakobyan, D. B. Hayrapetyan, H. A. Sarkisyan, E. M. Kazaryan "Nonlinear Optical Properties of Cylindrical Quantum Dot with Kratzer Confining Potential" Journal of Contemporary Physics (Armenian Academy of Sciences), vol. 54, No 1, pp. 46–56, 2019 (DOI:10.3103/S1068337219010067)
<p>Presentations</p>	<ul style="list-style-type: none"> • 12th Annual Scientific Conference, RAU, 2017 • 13th Annual Scientific Conference, RAU, 2018 • International Youth Conference on Electronics, Telecommunications and Information Technologies" (YETI-2019), SPBSTU 2019 • RACIRI 2019 Summer School "Structure, Real-time Dynamics and Processes in Complex Systems", Svetlogorsk, 2019 • 14th Annual Scientific Conference, RAU, 2019 • NanoQIQO: Autumn School 2023, University of Hamburg, November 27-30, Germany, 2023 • International conference NanoPQIQO-2024, RAU, 13 – 17 May, Armenia, 2024
<p>Conferences Seminars</p>	<ul style="list-style-type: none"> • International conference NanoPQIQO-2024, RAU, 13 – 17 May 2024, Armenia • NanoQIQO: Autumn School 2023, University of Hamburg, November 27-30, Germany • Nanoqiqo: School on Optics and Photonics 2023, May 15 to 20, Yerevan, Armenia • International school on modern applications of optics and photonics (MAOP 2022), August 29th to September 3rd 2022, Yerevan, Armenia • CARLA Hybrid Brussels Camp, 22-24 March 2022, Brussels, Belgium • RACIRI 2019 Summer School, Structure, Real-time Dynamics and Processes in Complex Systems, August 2019 • ISOP, July 2019 • Armenian Wolfram Technology conference, Sep 23-24, 2017 • 4th International Advanced School "Frontiers in Optics & Photonics" (FOP-2017), Sep 19-25, 2017, Armenia • International Advanced School "Frontiers in Optics & Photonics" (FOP-2014), 30 August - 5 Sep. 2014, Yerevan -Ashtarak, Armenia • Traineeship at the Department of semiconductors at MSU, Moscow, November, 2012
<p>Honours and awards</p>	<ul style="list-style-type: none"> • Annual State Educational Awards 2019 - Best PhD student
<p>Memberships</p>	<ul style="list-style-type: none"> • Member of the Student Scientific Society RAU (2013-2015) • Member of the RAU & NAS SPIE Student Chapter (2013-2015, 2017-2020 and 2022- 2024)