

Full Name Davit B. Hayrapetyan
Date of Birth 27 August, 1982
Citizenship Republic of Armenia
Nationality Armenian
Home Address Yerevan, Davitashen 4rt dstr., bld. 45/5, apt 1
Phone +374-93 93-43-11
Marital Status Married, 2 sons, 1 daughter
E-mail dhayrap82@gmail.com, david.hayrapetyan@rau.am



Business Address Russian-Armenian University
H. Emin 123, Yerevan 0051, Armenia

Academic Background, Education

2014 - Associate professor in the field of physics.

2009 – Doctor of Physics (PhD) in the field of Semiconductor and Insulator Physics, Yerevan State University, Scientific supervisors Prof. J.R. Panosyan and Prof. E.M. Kazaryan
PhD thesis: “Investigation of electronic and optical properties of quantum structures with nontrivial geometry”.

2006 – 2009, Postgraduate Student, Department of Physics, State Engineering University of Armenia.

2004 – 2006, Department of Solid State Physics, Faculty of Physics, Yerevan State University.
Master’s degree of Physics in the field of Physics (diploma of honor),
Master thesis: “Direct interband light absorption in strongly oblate and strongly prolate ellipsoidal quantum dots”

2000 – 2004, Graduated from Faculty of Physics, Department of Solid State Physics, Yerevan State University.
Bachelor’s degree of Physics in the field of Physics (Diploma of honor)
Bachelor thesis: “Electron states in a strongly flattened ellipsoidal quantum dot in the presence of electric and magnetic fields”

Honors and Awards

2022 – “**The Best scientific work**” initiated by World Armenian Congress, The Union of Armenians in Russia and The National Academy of Sciences of Armenia in the nomination Physics

2021 – **ICO/ICTP Gallieno Denardo International Award** - "For his breakthrough contributions to the theory of semiconductor nanosystems, as well as

his promotion of optics and photonics in Armenia under difficult circumstances."

2011 – “**The Best scientific work**” initiated by World Armenian Congress, The Union of Armenians in Russia and The National Academy of Sciences of Armenia in the nomination Physics

2006 – **President Educational Award** in the field of Information Technologies, First place in “The Best Master” nomination

2000 – **Gold medal** for the excellent advancement and exemplary behavior in the high school

Employment History

2023 – **up to now**, Advanced Researcher, Institute of Chemical Physics after A.B. Nalbandyan

2018 – **up to now**, Head of the Department of General Physics and Quantum Nanostructures, Institute of Engineering and Physics, Russian-Armenian University

2018 – **up to now**, Head of the Wolfram Laboratory

2017 – **2018**, Head of the Laboratory of Mathematical Modeling of Quantum Systems, Institute of Mathematics and High Technologies, Russian-Armenian University

2014 – **up to now**, Associate professor, Department of General Physics and Quantum Nanostructures, Institute of Mathematics and High Technologies, Russian-Armenian University

2014 – **2016**, Research scientist, Department of theoretical physics, Centre of Quantum Technologies and New Materials, Yerevan State University

2013 – **2014**, Teacher, “Usmunq” Private School

2009 – **2015**, Research scientist, Heliotechnic Problem Laboratory, National Polytechnic University of Armenia

2009 – **2013**, Senior lecturer, Faculty of Applied Physics and Engineering, Russian-Armenian University.

2007 – **2009**, Junior Research scientist, Faculty of Applied Physics and Engineering, Russian-Armenian University.

Grants

2021-2022 - Coordinator of **Faculty Research Funding Program 2021** (PMI Science) “Colloidal Quantum Dots as Platforms for Quantum Information Science”.

2021-2024 - Head of the **Starting Grant** initiated by the State committee of science of Armenia, Project 21SCG-1C008, Single Photons Sources and Entangled Photons Pairs Sources based on Coupled Colloidal Quantum Dots for Quantum Computing.

2021-2022 - Head of the Project of the **Russian-Armenian Research Collaboration Grant** initiated by the State committee of science of Armenia and Russian Foundation for Basic Research, Project 20RF-048, Exciton transport, exciton-exciton interaction, 2D hybrid perovskites, organic-inorganic perovskites, multilayer nanostructure.

2020-2023 – **Coordinator of 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 (grant No. 95233).

2020-2021 - Principal Investigator of the ANSEF (the Armenian National Science and Education Fund) Award 2020, 20AN:PS-nano-2205, Theoretical and experimental investigation of optical properties of biexcitons in quantum dots

2019-2022 - Head of the Project of the **Armenian-Italian Research Collaboration Grant** initiated by the State committee of science of Armenia, Project AI-01/19, Photophysical investigation of semiconductor quantum dots

2016 - 2018 – Head of the Project of the **Young Scientists Research Support Program** initiated by the State committee of science of Armenia, Project 16YR-1C022, Investigation of quantum nanostructures with non-trivial geometry: electronic, excitonic and impurity states, linear and nonlinear optical properties in terahertz range