

Sargis Gavalajyan

E-mail: gavalajyan.sargis@gmail.com

Phone: +37444738281

WORK EXPERIENCE

Institute of Chemical Physics after A.B. Nalbandyan of NAS RA,
Junior Research Scientist.

2022 — present

Russian-Armenian University
Junior Research Scientist.

2021— present

EDUCATION

Master degree

Department of General Physics and Quantum Nanostructures, Russian-Armenian University

2022 — present

Bachelor degree

Department of General Physics and Quantum Nanostructures, Russian-Armenian University Bachelor's degree

of science in the field of Physics

2018 — 2022

HONORS AND AWARDS

2023- The State Educational Award of the Republic of Armenia in the category of the best master student.

2023- Young scientists support program. Beneficiary of the contest to encourage young scientists for publication of scientific articles.

2023- Young scientists support program. Beneficiary of the contest to encourage young scientists for publication of scientific articles

2023- Best master student of RAU

2023-Samvel Kocharyanc's Scholarship.

2022– The State Educational Award of the Republic of Armenia in the category of the best bachelor student.

2022–Winner of the “Best Student Talk” competition in the framework “Quanta” conference, Yerevan, Armenia.

2022 – Winner of the “Olympiad” competition in the framework “Quanta” conference, Yerevan, Armenia.

2021–Winner of the “Best Student Talk” competition in the framework School on Optics and Photonics, Yerevan, Armenia.

PROFESSIONAL MEMBERSHIP

2022-present President of RAU Optica (formerly the optical society of America) Student Chapter

2020 – present member of RAU Society of Photo-Optical Instrumentation Engineers (SPIE) Student chapter

2019 – present member of RAU Optica (formerly the optical society of America) Student chapter

2021 – 2022 Vice-President of RAU Optica (formerly the optical society of America) Student Chapter

2021 –2022 Secretary of RAU Society of Photo-Optical Instrumentation Engineers (SPIE) Student Chapter

LANGUAGES

Armenian (Native), English (Fluent), Russian (Fluent) 1

RESEARCH AREAS

Electronic and optical properties of semiconductor low dimensional systems: one-electron states, impurity states, exciton states, interband and intraband transitions, absorption coefficient, different shaped QDs (quantum rings, core/shell QDs, nanoshells, nanorods, spherical, conical, cylindrical, ellipsoidal QDs).

CONFERENCES ORGANIZING COMMITTEE MEMBERSHIP

2023 – Organizing committee member of International **NanoQIQO School on Optics and Photonics 2023** May 15 - 20, Russian-Armenian University.

2022 – Organizing committee member of International **School on Modern Applications of Optics & Photonics**, 29 August - 3 September Russian – Armenian University, Yerevan State University

2022 – Organizing committee member of a **The International School on Quantum Optics and Quantum Information**, 22-26 August, Yerevan, Armenia.

2021 – Organizing committee member of a **School on Optics and Photonics**, 1-7 December, Yerevan, Armenia.

2021 Organizing committee member of a school devoted to the **International Day of Light**, 17-21 May, Yerevan, Armenia.

CONFERENCES, SCHOOLS, AND WORKSHOPS

1. NanoQIQO autumn school, Event by Hamburg University, Germany. 27.11-2.12. 2023
2. Summer School: Exciting nanostructures: Characterizing advanced confined systems. 30 July – August 4, Bad Honnef, Germany
3. Course of Introduction to the Wolfram Quantum Computation Framework 24.10.2022 - 28.10.2022, Online.
4. **Olympiad and scientific conference** held within the framework of the "QUANTA" program, 2022, Yerevan, Armenia.
5. International workshop **Optics & its Applications 2022** 15.01.2022 - 19.01.2022, Yerevan - Ashtarak, Armenia.
6. **The annual International Conference Laser Physics**, 21.09.2021 - 24.09.2021, Yerevan - Ashtarak, Armenia.

7. **6th International Advanced School Frontiers in Optics & Photonics (FOP-2021)**, 30.08.2021 - 11.09.2021, Yerevan - Ashtarak, Armenia.
8. The **1st Summer School of nanoQIQO**. Event by Materials Science Department of the University of Patras (Greece), 2021, Online.
9. School dedicated to **International Day of Light**. 17.05.2021-20.05.2021, Online.
10. Workshop **From Darkness to Brightness** devoted to the International Day of Light, 2020, Yerevan, Armenia, Online.
11. ICTP: **Winter College on Optics: Quantum Photonics and Information**, Italy, 10.02.2020-21.02.2020.
12. **Wolfram Conference**, Dilijan, Armenia, 2019.
13. **International School on Optics and Photonics** Yerevan, Armenia, 01.07.2019 - 07.07.2019.

Publication List

Gavalajyan, S.P., Mantashian, G.A., Kharatyan, G.T., Sarkisyan, H.A., Mantashyan, P.A., Baskoutas, S. and Hayrapetyan, D.B., 2023. Optical Properties of Conical Quantum Dot: Exciton-Related Raman Scattering, Interband Absorption and Photoluminescence. *Nanomaterials*, 13(8), p.1393. <https://doi.org/10.3390/nano13081393>