Curriculum Vitae

Name	**Yuri Bleyan**	
Personal	Day of birth:	10 Oct 1996, Yerevan, Armenia
	Citizenship:	Republic of Armenia
	Nationality:	Armenian
	Home address:	David Anhaght 19/1, Yerevan, Armenia
	Tel:	(+374-55) 89-68-76
Languages	Armenian (native), Russian (Fluent), English (Fluent)	
Address	E-mail: yuri.bleyan@rau.am , yurableyan96@gmail.com	
Education	• 2002-2007, N 147 school • 2007-2013, The physico-mathematical special school after A. Shahinyan • 2013-2017, Graduated from Faculty of Applied Physics and Engineering, Department of General Physics and Quantum nanostructures, Russian-Armenian University, Yerevan, Armenia • 2017-2019, Master student, Department of General Physics and Quantum nanostructures, Russian-Armenian University, Yerevan, Armenia • 2019-2022, PhD student, Department of General Physics and Quantum nanostructures, Russian-Armenian University, Yerevan, Armenia	

	• 2022 April – Phd: Title of Dissertation "Investigation of Optical Properties of Complicated Excitonic Complexes In Quantum Dots"
Grants	• 2017 - 2018 – 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. **Participant** • 2019 - 2020 – Thematic Project of the State committee of science of Armenia, Project 18T-1C062, Investigation of trion and biexciton states in semiconductor quantum dots. **Participant** • 2019-2022 19IT-009, Photophysical investigation of semiconductor quantum dots. **Participant** • 2020-2022 – PhD Grant of the State committee of science of Armenia, Project 20AA-1C007, Optical properties of magnetobiexcitons in semiconductor quantum dots. **Project Lead** • 2021-2024 –21SCG-1C008, Single Photons Sources and Entangled Photons Pairs Sources based on Coupled Colloidal Quantum Dots for Quantum Computing. **Participant** • 2021-2022, Colloidal quantum dots as platforms for quantum information science. **Participant** • 2021-2023, Twinning towards the Russian-Armenian University's scientific excellence and innovation capacity in nanomaterials for quantum information and quantum optics (NanoQIQO). **Participant**

	• 2023-2028, “Comprehensive Study of Semiconductor Quantum Nanostructures as an Element Base of New Generation Optoelectronic Devices”. **Co-Investigator** of the project

Conferences, Schools	• Annual Student Scientific Conference of Russian-Armenian University, 18-20 April, Yerevan, Armenia, 2017 (Oral). • 4th International Advanced School on Frontiers in Optics & Photonics 19-25 September , Yerevan-Ashtarak, Armenia, 2017 (Organizer) • Armenian Wolfram Technology Conference, 23-24 September, Russian-Armenian University, Yerevan, Armenia, 2017 (Participant) • Joint International Conference on Astrophysics for Young Scientists 3 – 7 October, Byurakan Astrophysical Observatory, Byurakan, Armenia ,2017 (Participant) • Twelfth Annual Scientific Conference of Russian-Armenian University, 4-8 December, Yerevan, Armenia, 2017 (Oral) • International School on Metamaterials and Nanotechnologies ISMENA, 24-28 December, Tsaghkadzor, Armenia, 2017 (Participant) • SPIE PHOTONICS EUROPE, 22-26 April, Strasbourg, France, 2018 (Author/Presenter) • 5th International Advanced School on Frontiers in Optics & Photonics 22-27 June , Yerevan-Ashtarak, Armenia, 2018 (Organizer) • IEEE 8th International Conference on Nanomaterials: Applications & Properties, 9-14 September, Odessa, Ukraine,2018 (Author/Presenter) • 5th International Conference "Nanotechnologies", Tbilisi, Georgia, 2018 (Author/Presenter) • Thirteenth Annual Scientific Conference of Russian-Armenian University, 3-7 December, Yerevan, Armenia, 2018 (Oral) • International Conference Laser Physics, 17-20, September, Ashtarak, Armenia, 2019 (Author/Presenter) • Fourteenth Annual Scientific Conference of Russian-Armenian University, 2-6 December, Yerevan, Armenia, 2019 (Oral) • IEEE 11th International Conference on "Nanomaterials: Applications & Properties", 5-11 September, Odessa, Ukraine, 2021(Author/Presenter) • Fifteenth Annual Scientific Conference of Russian-Armenian University, 6-10 December, Yerevan, Armenia, 2021 (Oral) • YETI International Youth Conference on Electronics, Telecommunications and Information Technologies, 22-23 April,2021 (Oral)

Scientific Publications	• Y.Y. Bleyan, D.B. Hayrapetyan, H.A. Sarkisyan, E.M. Kazaryan, Optical properties of biexcitons in ellipsoidal quantum dot. In Quantum Technologies. International Society for Optics and Photonics, Vol. 10674, p. 106741Q, 2018. • D.B. Hayrapetyan, Y.Y. Bleyan, D.A. Baghdasaryan, H.A. Sarkisyan, S. Baskoutas, E.M. Kazaryan, Biexciton, negative and positive trions in strongly oblate ellipsoidal quantum dot. Physica E: Low-dimensional Systems and Nanostructures, 105, 47-55, 2019. • Y.Y. Bleyan, D.B. Hayrapetyan, Tuning Terahertz Recombination Transitions of Quaternion States in Ellipsoidal Quantum Dot. Journal of Contemporary Physics (Armenian Academy of Sciences), 54(2), 153-159, 2019. • Y.Y. Bleyan, Theoretical Investigation of Different Types of Trion States in GaAs Ellipsoidal Quantum Dot. Journal of Contemporary Physics (Armenian Academy of Sciences), 55(2), 137-143, 2020. • Y.Y.Bleyan, Estimation Of The Radiative Lifetime Of Exciton And Biexciton States In Ellipsoidal Quantum Dot, Conference Proceedings of Russian-Armenian University, 91-96, 2020. • Y.Y.Bleyan, Optical Properties of MagnetoBiexciton in Ellipsoidal Quantum Dot, IEEE 11th International Conference Nanomaterials: Applications & Properties, 1-3, 2021. • Y.Y. Bleyan, Binding Energy of Magnetobiexciton in Ellipsoidal Quantum Dot. In International Youth Conference on Electronics, Telecommunications and Information Technologies, 363-368, Springer, Cham, 2022. • Y.Y. Bleyan, D.B. Hayrapetyan, Magnetobiexciton in strongly oblate ellipsoidal quantum dot. Physica B: Condensed Matter, 632, 413725, 2022. • Y.Y. Bleyan, P.A. Mantashyan, E.M. Kazaryan, H.A. Sarkisyan, G. Accorsi, S. Baskoutas, D.B. Hayrapetyan, Non-Linear Optical Properties of Biexciton in Ellipsoidal Quantum Dot. Nanomaterials, 12(9), 1412, 2022. • Y.Y. Bleyan,T.A. Sargsian, A.A. Kostanyan, D.B. Hayrapetyan, P.A. Mantashyan, Impact of intense laser Bessel beam on excitonic complexes in ellipsoidal quantum dot, 263, 120101, 2023
Memberships	• 2015 - up to now, Member of the Scientific Council of Institute of Mathematics and High Technologies. • 2017 - up to now, RAU & NAS SPIE Student Chapter • 2018-2019, President of the RAU & NAS SPIE Student Chapter
Special Courses	• 2017, Wolfram Language, Application for physics. Certificate • 2019, Toefl iBT (Score-91)

Work Experience	• 2017-2019, Junior researcher at "Mathematical Modeling of Quantum Systems" Laboratory, Russian-Armenian University • 2020 - 2021, Teaching Assistant at Russian-Armenian University • 2021- up to now, Lecturer at Russian-Armenian University • 2021- up to now, Physics Teacher at "Usmunq" School, specializing of physics-mathematics and biomedical classes, Russian-Armenian University • 2023- up to now, Researcher at "Quantum Optics and Nanophotonics" group, Institute of Chemical Physics after A. B. Nalbandyan NAS RA
Awards	• Educational Award of the President of the Republic of Armenia in the IT Sphere, Best Master Student 2018 ,II Category • Educational Award of the Ministry of Education and Science, Best Master's Student 2019, II Category