

GAGIK SHMAVONYAN

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Professor in Electronics
Ph.D. in Physics, **D.Sc.** in Electronic Engineering
International Expert in Nanotechnology, **Innovator**

COST (European Cooperation in Science and Technology) (**Brussels**)
 Institute of Physics, Chartered Physicist (**UK**)
 American Physical Society (**USA**)
 International Association of Advanced Materials (**Sweden**)
 Athens Institute for Education and Research (**Greece**)
 St. Petersburg Scientific and Educational Society (**Russia**)

EDUCATION

- **D.Sc. in Electronic Engineering** from State Engineering University of Armenia (SEUA), Armenia, 2009.
- **PhD in Physics** from Yerevan State University, Armenia, 1996.
- **M.Sc. in Electronic Engineering**, Department of Semiconductor and Microelectronic Devices at SEUA, Armenia, 1985.

PROFESSIONAL EXPERIENCE

Sept. 2 - Nov. 30, 2019 Eberhard Karls University of Tübingen, Institute for Applied Physics, Faculty of Science, Laboratory "Plasmonic Nanostructures", Tübingen, Baden-Württemberg, **GERMANY**.

August 2, 2019- present Advisor at Ministry of High-Tech Industry of Armenia, Yerevan, **ARMENIA**.

Jan. 2019 – Dec. 2020 Researcher, Institute for Physical Research (IPR), Laboratory of Solid State Physics, NAS Armenia, Ashtarak-2, **ARMENIA**.

Aug. 30, 2017 - present Professor in Electronics, National Polytechnic University of Armenia, Department of Microelectronics and Biomedical Devices, Yerevan, **ARMENIA**.
Lectures: for Armenian and Foreign (Indian, Iranian, Syrian, Georgian, etc.) students.

June 2017 - present LarrainVial Investment and Advisory Company, Santiago de Chile, **CHILE**.

- Chief Scientific Coordinator of Education programs (February 2019 - present),
- Scientific Coordinator of International multidisciplinary group of consultants (Aug. 2017 - Jan. 2018)
- International Expert/scientific consultant in Nanotechnology (June - August 2017),

August 2017 Invited Professor, Institute of Nanoscience and Nanotechnology, National Center for Scientific Research "Demokritos", Athens, **GREECE**.

Jan. 2016 - Dec. 2017 University of Cergy-Pontoise, Department of Physics, Laboratory of Physics of Materials and Surfaces (LPMS), Paris area, **FRANCE**.

- Invited Professor with teaching responsibilities (Lectures: 10 hours/week, Master M2 group with 20 students from France, Marocco, Egypt, etc.) (April and November, 2017),
- Invited Professor with research responsibilities in firm collaboration with the Laboratory of Louvre, Philharmonic of Paris and CEA (French Atomic Energy Commission, Saclay) (Jan. 2016 - Dec. 2017)

Sept. 2013 - July 2014 Visiting Scholar, University of Santiago de Compostela, Laboratory of Nanotechnology and Magnetism (NANOMAG), Research Technological Institute, Department of Physical Chemistry, Faculty of Chemistry, Santiago de Compostela, **SPAIN**.

May - August 2012 Visiting Professor, Trinity College Dublin, Department of Chemistry, Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN), Dublin, **IRELAND**.

June - August 2011 Visiting Scholar, Free University Berlin, Department of Physics, Berlin, **GERMANY** in collaboration with one of the groups of Nobel Prize winners A. Geim and K. Novoselov, headed by Dr. Cinzia Casiraghi, University of Manchester, **UK**.

Dec. 2007 - Aug. 30 2017 Associate Professor, SEUA (renamed National Polytechnic University of Armenia (NPUA) on Dec. 23, 2014), Department of Microelectronics and Biomedical Devices, Yerevan, **ARMENIA**.

Sept. - Dec. 2006 Visiting Scholar, University of Bremen, Department of Physics, Bremen, **GERMANY**.

Nov. 2004 - Feb. 2005 Visiting Scholar, Polytechnic of Milan, Department of Physics, Laboratory for Nanometric Epitaxial Structures and Spintronics, Lombardia Region, Como, **ITALY**.

Sept. 2004 - Dec. 2007 Assistant Professor, SEUA, Department of Microelectronics & Biomedical Devices, Yerevan, **ARMENIA**

July - Dec. 2003	Visiting Professor with teaching responsibilities, University of Hull, Department of Engineering, Laboratory of Optoelectronic Devices in collaboration with the Department of Physics, University of Oxford, UK .
Oct. - Dec. 2002	Visiting Scholar, University of Bremen, Department of Physics, Bremen, GERMANY .
Dec. 2001 - Aug. 2002	Postdoctoral position, Department of Electrical Engineering at National Taiwan University in conjunction with Agilent Technologies (USA), Taipei, TAIWAN .
July - Nov. 2000	Visiting Professor, University of Hull, Department of Engineering, Laboratory of Optoelectronic Devices in collaboration with the University of Oxford, Department of Physics, UK .
March 1991 - Dec. 2001	Senior Researcher, SEUA, Department of Physics, Yerevan, ARMENIA .
Dec. 1985 - March 1991	Junior Researcher, Tutor of Physics Laboratory, SEUA, Department of Physics, Yerevan, ARMENIA .

RESEARCH FIELDS Nanotechnology, Materials Science, Renewable Energy, Optoelectronics, Optical Communication.

RESEARCH INTERESTS

Recent Research Interests

- 2D atomic materials, 2D devices and flexible electronics,

Last Research Interests

- Synthesis of NWs and metal clusters with the size of less than 2 nm, their characterization by optical (Raman, UV/Vis, FT-IR, NMR) spectroscopy, Fluorescence, XPS and electronic microscopy (AFM, STM, SEM and TEM) and functionalization.
- Epitaxial growth (MBE, MOVCD and STM) of semiconductor nanostructures,
- Design, fabrication and characterisation of semiconductor nanostructured optoelectronic devices:
 - Tunable semiconductor lasers and broadband semiconductor optical amplifiers for optical fiber communications.
 - Photo-electrochemical, photovoltaic (PV), thermophotovoltaic (TPV) and perovskite solar cells.

PUBLICATIONS

Total citations: > 160, h-index: 6.

Author and co-author of 190 publications, including:

- 50 papers in refereed journals,
- 20 patents: 1 Spanish (extended to EPO, WIPO and US), 17 Armenian and 2 USSR),
- 120 International (27 countries) and Local Conference papers,
- Chapter in 3-volume Textbook for European University students, De Gruyter (English),
- 3 Academic Manuals (Armenian),
- 1 Problem book (Armenian)

AWARDS

- Armenian-Belarusian ArmBel Grant-Ap18_1c-2 in applied research "Hybrid superconductors with electrode system based on vertically oriented graphene nanowalls and carbon nanotubes", 2018-2020.
- University Award (Thanksgiving certificate of appreciation), Awarded by National Polytechnic University of Armenia, November 26, 2018.
- European Cooperation in Science and Technology (COST) Short-term scientific missions (STSM) Grant, Action MP1302 "Nanospectroscopy", 2017.
- Heritage Science Foundation Grant "Protection of the materials of cultural heritage objects against degradation by graphene coating", Program "Cooperation and Mobility International 2016", 2016-2017.
- University Award (Thanksgiving certificate of appreciation for presentation of his technology at the "DigiTec Expo-2016" International Technology Exhibition), Awarded by National Polytechnic University of Armenia, October 18, 2016.
- Global Cleantech Innovation Grant AM004 "Graphene thermophotovoltaic cells", Awarded by UN Industrial Development Organization (UNIDO) at Cleantech Open Global Ideas Competition (Startup Acceleration Program), 2015;
- Global Cleantech Innovation Grant AM004 "Graphene and Graphene electronics", Awarded by UN Industrial Development Organization (UNIDO) at Cleantech Open Global Ideas Competition (Startup Acceleration Program), 2014;
- EU Erasmus Mundus (European Community Action Scheme for the Mobility of University Students) scholarship (# 1720044), ALRAKIS-2 Postdoctoral study/Career development program, 2013-2014.
- ARPA Institute Invention Competition Award (3rd prize), Awarded by ARPA for the project "Non-conventional, cheap and easy technology for large-scale production of graphene", Los Angeles, CA, USA, September, 2014.
- ARPA Institute Invention Competition Award (2nd prize), Awarded by ARPA for the project "Heterostructure thermophotovoltaic cells", Los Angeles, CA, USA, September, 2013.
- European Cooperation in Science and Technology (COST) Short-term scientific missions (STSM) Grant, Action MP0901 "Designing Novel Materials for Nanodevices - from Theory to Practice (NanoTP)". 2012.
- DAAD (German Academic Exchange Service) Fellowship, 2002, 2006, 2011 and 2019.
- Award of Marquis Who's Who in the World, 28th edition, VIP Number 35541273, New Jersey, USA, 2800 p., 2010-2012.

- NATO Reintegration Research Grant PDD (CP)-FEL.RIG 980772 “Characterization of Semiconductor surfaces, interfaces and structures for photoelectrochemical, photovoltaic and thermophotovoltaic conversion of solar energy”, Awarded by NATO, 2004-2007.
- Cariplo Foundation and Landau Network - Centro Volta Grant, Awarded by Centro Volta, Como, Italy, 2005.
- The best research publication Award (2nd prize) for series of papers published in the field of semiconductor optical amplifiers and elaboration of signal in nanostructures published in 2004-2005, Awarded by State Engineering University of Armenia, Yerevan, Armenia, December, 2005.
- Dora Jones Fellowships, Awarded by the University of Hull, Hull, UK, 2000 and 2003.
- Travel grant for participation in the 12th International Workshop on the Physics of Semiconductor Devices, Awarded by Armenian College and Philanthropic Academy (ACPA), Chennai, India, 2003.
- Travel grant for participation in the Photonics West 2003: San Jose, California, USA, Awarded by CRDF, 2002, USA.
- Travel grant for participation in the 10th International Conference on II-VI Compounds, Bremen, Germany, Awarded by the University of Bremen, Germany, 2001.
- Travel grant to carry out research in Osaka, Japan, Armenia, 1997.
- Student Graduation paper awards:
 - 1st prize, Alexander Popov Diploma of Honor, Soviet Union Students’ Scientific Competition, Baku, Azerbaijan, 1986.
 - 1st prize for the best graduation paper, Republican Students Competition, Yerevan, Armenia, 1985.
 - 1st prize, Diploma for Student excellent research at 32nd Scientific Competition, State Engineering University of Armenia, Yerevan, Armenia, Nov. 23, 1985.
- The best graduate student Award of the year of 1980 at School named after Yghishe Charents, Yerevan, Armenia.

PRIZES

- CleanTech Oscar Prize (1st prize and National winner) for the project “Graphene-assisted thermophotovoltaic cells” at Cleantech Open Global Ideas Competition (Startup Acceleration Program), San Fransisco, Silicon Valley, USA; Awarded by UN Industrial Development Organization (UNIDO), 2015.

RESEARCH PROJECTS

- Hybrid superconductors with electrode system based on vertically oriented graphene nanowalls and carbon nanotubes (2019-2020).
- Non-conventional, easy, cheap and ecologically clean technology for mass production for high quality graphene (2014-2019).
- Graphene based perovskite solar cells (2017).
- Protection against degradation of the material by a coating heritage made of graphene” (2016-2017).
- Synthesis of platinum clusters by electrochemical method and characterization of them (2014-2015),
- Development of the library of “smart” nanomaterials – nanoengineering of nanomaterial properties (2012).
- Synthesis of graphene and its characterization by optical spectroscopy (2011-2014).
- SEM and STM investigation of the surface and cross-section features of ZnO NWs under FIB treatment (2006-2007).
- Photo-electrochemical, photovoltaic and thermophotovoltaic conversion of solar energy (2004-2007).
- Monolithic integration of III/V semiconductor nanostructured heterostructures and devices on silicon (2004-2005).
- Epitaxial growth of low dimensional Ge structures on Si (113) through surface active species mediated growth (2003).
- Broadband gain media for external-cavity semiconductor lasers tunable from 1.25-1.65 μm (2001-2002).
- Photo-electrochemical, photovoltaic and thermophotovoltaic conversion of solar energy (1985-1990).
- Investigation of the rotation of polarization angle of light reflected from semiconductor surfaces and interfaces (1987-1988).
- Investigation of surface excitons on semiconductor-electrolyte interface (1985-1988).
- Point defect studies using Electron Paramagnetic Resonance (1984).

INVITED TALKS / LECTURES AT SEMINARS IN LEADING RESEARCH GROUPS

VISITS TO MORE THAN 30 COUNTRIES

1. **FRANCE** (Paris), The Louvre Laboratory, November 28, 2017, Host Christine Richter,
2. **ARMENIA** (Yerevan), Armenian-Iranian Nanotechnology Forum, September 22-23, 2017.
3. **FRANCE** (Cergy-Pontoise), University of Cergy-Pontoise, Seminar “Electron and spin dynamics in correlated systems”, November 30, 2016, Host Professor Karol Hricovini,
4. **FRANCE** (Cergy-Pontoise), University of Cergy-Pontoise, 2016 and 2017, Host Professor Karol Hricovini,
5. **ARMENIA** (Yerevan), September 21-23, 2016, 1st Pan-Armenian Scientific Forum, Host Ruben Vardanyan
6. **FRANCE** (Paris), The Louvre Laboratory, July 18, 2016, Host Stephene Vaidelich,
7. **ARMENIA** (Yerevan), April 12, UNIDO CleanTech Final Meeting, Host Frunzik Voskanyan.
8. **ITALY** (Rome) COST MP1302 Nanospectroscopy Annual Meeting, March 21-26, 2016. Host Prof. Antonio Cricenti,
9. **FRANCE** (Cergy-Pontoise), University of Cergy-Pontoise, Feb. 6, 2016, Host Prof. Flora Koukiou and Prof. Armen Shirikyan,
10. **USA** (Silicon Valey, San Francisco and San Jose, CA), CleanTech Open Global Forum and Expo, November 15-20, 2015.
11. **ARMENIA** (Yerevan), Technology and Science Dynamics Company (USA), July 22, 2015, Host Vahan Shakaryan.
12. **ARMENIA** (Yerevan), Armenian-French Forum on Energy Sphere, November 8, 2014, organized by United Nations.

13. **GEORGIA** (Batumi), Summer school "Research methods in material science", 2 invited lectures, August 18-23, 2014, Host Prof. Tamar Tchelidze.
14. **FRANCE** (Nantes), COST NanoTP MP0901 Meeting, April, 2014. Host Prof. Chris Ewels,
15. **SPAIN** (Santiago de Compostela), University of Santiago de Compostela, October, 2013, Host Prof. M.A. López-Quintela.
16. **IRELAND** (Dublin), Trinity College Dublin, June, 2012, Host Dr. Silvia Giordani.
17. **ITALY** (Trieste), Management Committee Annual Meeting of COST Action MP0901 and visit to Elletra synchrotron Trieste (International center), November, 2011.
18. **GERMANY** (Berlin), Free University Berlin, June, 2011. Host Dr. Cinzia Casiraghi.
19. **GERMANY** (Bremen), Bremen University, October 2006, Host Prof. Dr. Jens Falta.
20. **AUSTRIA** (Riezlern), 4th Workshop of Institute of Solid State Physics, September 25 - 30, 2006, Host Prof. Dr. Jens Falta
21. **ARMENIA** (Yerevan), Workshop on Science and Technology Entrepreneurship Program (STEP) organized by US CRDF and Enterprise Incubator Foundation (Armenia), Yerevan, May 26, 2006.
22. **ITALY** (Como), Polytechnic of Milan, Department of Physics, L-NESS, 2005, Host Prof. Dr. Hans von Kaenel.
23. **INDIA** (Calcutta), ACPA, 2004, Host Mrs. Sonia John.
24. **UK** (London), Imperial College London, **UK**, 2003, Host Professor Keith Barnham
25. **UK** (Oxford), University of Oxford, 2003, Host Prof. Robin Nicholas
26. **UK** (Hull), University of Hull, 2003, Host Prof. Stephanie Haywood
27. **GERMANY** (Oldenburg), University of Oldenburg, 2002, Host Dr. Rudolf Brueggemann.
28. **GERMANY** (Bremen), University of Bremen, 2002, Host Prof. Dr. Jens Falta.
29. **TAIWAN** (Taipei), National Taiwan University, 2001, Host Prof. Ching-Fuh Lin
30. **UK** (Oxford), University of Oxford, 2000, Host Prof. Robin Nicholas
31. **UK** (Oxford), University of Oxford, Physics Department, 2000, Host Prof. Roger Davies
32. **UK** (Hull), Hull, 2000, Host Prof. Stephanie Haywood
33. **ARMENIA** (Ashtarak), Institute for Physical Research, 1996, Host Prof. Radik Martirosyan
34. **ARMENIA** Yerevan State University, Department of Semiconductor Physics, 1996, Host Prof. Vladimir Haroutiounian
35. **RUSSIA** (St. Petersburg), Institute of semiconductor physics, Host Dr. Igor Uraltsev, 1990
36. **UKRAINE** (Kiev), "Paramagnetic semiconductors", Institute of Semiconductor Physics, 1984.

INDUSTRY RELATIONSHIPS AND COLLABORATIONS / VISITS TO THE COMPANIES

- **USA** (Silicon Valley), PARC, November 19, 2015.
- **USA** (Silicon Valley), Alta Motors, November 19, 2015.
- **USA** (Silicon Valley), GSV Labs, November 19, 2015.
- **USA** (Silicon Valley), Tesla Motors, November 19, 2015.
- **ARMENIA** (Yerevan), Technology and Science Dynamics (USA), July 22, 2015.
- **ITALY** (Trieste), Elletra Sinchrotron Trieste, November, 2011.
- **KOREA** (Suwon), Samsung Electronics, Central R&D Research Center, 2004.
- **TAIWAN** (Hsinchu), Taiwan Semiconductor Manufacturing Company (TSMC), 2002,
- **RUSSIA** (St. Petersburg), Leningrad Optical and Mechanical Association (LOMO), 1993, Host: Dr. Andranik Ioannisian
- **UKRAINE** (Kharkov), Optics Company, 1988.

EXPERT

- Expert in Nanotechnology, Electronic Engineering and Renewable Energy at i2mfund (USA) (since 2019).
- External Independent Expert at Cyprus Research Promotion Foundation (since 2018).
- International Expert in Nanotechnology at LarrainVial Investment and Advisory Company, Santiago de Chile (since 2017).
- External Expert at European Cooperation in Science and Technology (COST) Association, Belgium, Brussels (since 2016).
- Expert at State Committee of Science, Armenia (since 2013).
- Expert in Nanotechnology, Rokkors Nanotechnologies, Vienna, **AUSTRIA** (2007).

ADVISOR/CONSULTANT

- Advisor (Advisory Board Member) at Global Startup Awards (since July 29, 2019).
- Member of the Professional Advisory Body adjacent to the Minister of High-Tech Industry of the Republic of Armenia (on public grounds) (since August 2, 2019).
- Consultant at "African Network for advanced two-dimensional materials" (includes Morocco, South Africa, Algeria, Tunisia, Cameroon, Congo Brazzaville and Rwanda) supported by the Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste, Italy) (2019).

MEMBER / CHAIR OF CONFERENCE ORGANIZING / TECHNICAL COMMITTEES

- TPC member, 5th International Conference on Green Materials and Environmental Engineering (GMEE), Guangzhou, China, December 27-29, 2015.

- TPC member, International Conference on Energy, Power and Environmental Science, Beijing, China, November 24-25, 2019.
- OCM and Session Chair of the session "Advanced Nanomaterials", Invited Speaker, 2nd International Conference on Nanotechnology (SCON Nanotechnology), Amsterdam, Netherlands, November 18-19, 2019.
- TPC member, International Conference on Advanced Material Research and Processing Technology, July 19-21, 2019, Wuhan, China.
- OCM, Invited Speaker, 9th International Conference on Advanced & Nano materials, June 26-27, 2019, New York, USA.
- OCM, Plenary Speaker, Global Conference on Carbon Nanotubes and Graphene Technologies (Graphene Technology-2019), March 28-29, 2019, Milan, Italy.
- International Technical Committee (ITC) member, International Conference on Big Data and Artificial Intelligence, December 21-23, 2018, Ningbo, China.
- TPC member, International Conference on Material Engineering, Nanjing, China, August 17-19, 2018.
- TPC member, 5th Annual International Conference on Material Science and Engineering (ICMSE2017) Xiamen, Fujian, China, October 20-22, 2017.
- TPC member, 4th Annual International Conference on Computer Science & Applications, Beijing, China, Dec. 8-10, 2017.
- TPC member, 5th Annual International Conference on Material Science & Engineering, Suzhou, China, June 23-25, 2017.
- General Chair, 2nd International Conference on Green Materials and Environmental Engineering (GMEE), Phuket, Thailand, December 20-21, 2015.
- TPC Member, Member of International Scientific Committee, International Conference on Advanced Technology in Materials Science and Engineering (ATMSE), Phuket, Thailand, December 20-22, 2015.
- TPC Member, 5th International Conference on Electronics, Communications and Networks, Shanghai, China, Dec. 12-15, 2015.
- Technical Program Committee (TPC) Member, International Association of Science & Technology for Development (IASTED).

PRESENTATIONS AT EXHIBITIONS

- World Congress on Information Technology (WCIT), October 6-9, 2019 and DigiTec Expo Technological Exhibition, October 5-9, 2019, Yerevan, Armenia ("NanoHi" Team, National Polytechnic University of Armenia).
- DigiTech Expo Technological Exhibition, Yerevan, Armenia, October 5-7, 2018 ("NanoHiTech" Association).
- DigiTech Expo Technological Exhibition, Yerevan, Armenia, September 30 - October 2, 2016 ("NanoHi" Team, National Polytechnic University of Armenia).
- CleanTech Open Global Expo, Silicon Valley, San Jose, CA, USA, November 19-21, 2015.
- DigiTech Expo Technological Exhibition, Yerevan, Armenia, October 2-4, 2015 ("NanoHi" Team, UNIDO).
- Exhibition devoted to the World Environment Day organized by UN, Lovers park, Yerevan, Armenia, June 5, 2015 ("NanoHi" Team).

PHD SUPERVISION / CO-SUPERVISION

- PhD students:
 - Zadoyan Ovsanna (2011-2014) "Elaboration and investigation of the epitaxially grown nanostructured thermophotovoltaic cells", April 7, 2015.
 - Sevoyan Gevorg (2011-2014).
 - Khachatryan Vladimir (2008-2011).
- Official opponent at a Ph.D. disputation for the defense of PhD thesis at YSU and NPUA:
 - Ayvazyan Karen, PhD, September 19, 2015.
 - Vahanyan Artyom, DSc, October 6, 2012.
 - Harutiunyan Vardan, PhD, May 12, 2012.
- Graduate Foreign and Armenian students (more than 1000).
- Undergraduate Foreign and Armenian students (more than 3000).

PROFESSIONAL SOCIETY MEMBERSHIP

- President of NanoHiTech Association (since 2020).
- Member of EQORIA Scientific Consortium (since October 21, 2019).
- 5-year Membership (ID # 6351213743209), International Association of Advanced Materials (IAAM), Sweden (2019-24)
- Management Committee member with Observer status of the COST Action "Multi-Functional Nano-Carbon Composite Materials Network (MultiComp)" Project CA15107, Brussels, Belgium (2018 - 2020).
- Management Committee member with Observer status of the COST Action "Materials, Physics and Nanosciences (MPNS)" Project MP1302 "NanoSpectroscopy", Brussels, Belgium (2015-2017).
- Management Committee Member of the COST Action "Materials, Physics and Nanosciences (MPNS)" Project MP0901 "Designing Novel Materials for Nanodevices - from Theory to Practice (NanoTP)", Brussels, Belgium (2011-2014),
- Member of National Graphene Association (since 2017).
- Academic Member, Athens Institute for Education and Research (ATINER), Units of "Physics Research" and "Electrical Engineering Research", Athens, Greece (since 2016).

- Inventors Club, Yerevan, Armenia (2015-2017).
- The Graphene Council; Graphene Council Standards Task Force (2015-2016), Working group for the development of ANSI/ISO TC 229 and IEC TC113 graphene standards (2015-2016).
- European Nanoscience and Nanotechnology Association, Member of the Scientific Board, Slovenia (2013-2015),
- Armenian Association of Former Grantees of Germany, DAAD Alumni Yerevan, Armenia (since 2012),
- Society of Alumni of SEUA (since 2012),
- American Physical Society, Member (ID # 60046687), Washington, USA (2000-2016),
- Institute of Physics, Chartered Physicist, M Inst P (ID # 1064163), London, UK (2001-2015),
- St. Petersburg Association of Scientists and Scholars, St. Petersburg, Russia (2001-2015),
- Pan-Armenian Academic and Scientific Society, London, UK (1997-1999),
- All Armenian Forum, Member of Science and Education Committee, Moscow, Russia (1994-1996).

NON-PROFESSIONAL SOCIETY MEMBERSHIP

- President of Armenia - Great Britain Society, NGO, Yerevan, Armenia (2000-2018).
- Representative of St. Petersburg Scientific and Educational Society in Armenia (2010-2015).
- Representative of Armenian College and Philanthropic Academy (Calcutta, India) in Armenia (2004 – 2005).
- Representative, Vice President of Armenian Jewelers Association (worldwide) in Armenia (1997 - 1998).

SKILLS

- **PEDAGOGICAL SKILLS**

Teaching undergraduate, graduate and post-graduate International (English) and local (Armenian) University students.

- **LANGUAGES**

Fluent in Armenian (native), English (fluent), Russian (fluent), Spanish (poor).