

## Saida Aliyeva, Ph.D. Fulbright Alumni

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### **Director of International Affairs Office**

**2020-Present**

Khazar University

*Primary responsibilities:* Collaboration & Network building / Coordinate programs for incoming/outgoing students and staff / Support with grants writing and coordination / Develop progress reports / Mentor the admission process and migration issues / Perform gap analysis / Develop a list of lessons learned and mitigations.

### **Adjunct Faculty**

**2020-Present**

ADA University

*Primary responsibilities:* Adjunct Instructor for Environmental Science course.

### **Science Mentorship Lead**

**2018 -2019 (Full time)**

Science and Technology Centre in Ukraine, Biological Threat Reduction Program funded by Defense Threat Reduction Agency (DTRA)

*Primary responsibilities:* Manage trainings on academic writing and grantsmanship (screen funding agencies, technical proposal, budgeting, and reporting) for representatives of the Ministry of Agriculture, Ministry of Health and Food Safety Agency of Azerbaijan / Develop and coordinate successful grant proposals/ Analyze project implementation data / Develop quarterly and final progress reports / Prepare materials for Project Management Review process / Finalize project activities and accomplishments / Perform gap analysis / Develop a list of lessons learned and mitigations.

### **Science Mentorship Lead**

**2016-2018 (Full time)**

Black & Veatch Special Projects Corp., Cooperative Biological Engagement Program (CBEP), DTRA

*Primary responsibilities:* Manage and mentor the implementation of five projects focused on Especially Dangerous Pathogens aimed to improve both human and animal health in Azerbaijan / Facilitate trainings on grantsmanship (screen funding agencies, technical proposal, budgeting, and reporting) / Develop the diagnostic and biosafety Standard Operating Procedures / Introduce the concepts of Quality Management System / Develop and coordinate successful grant proposals / Analyze project implementation data / Develop quarterly and final progress reports / Review scientific writings / Project procurement / Finalize required progress reports/ Perform gap analysis / Develop a list of lessons learned and mitigations.

### **Cooperative Biological Research Coordinator**

**2011-2016 (Full time)**

Civilian Research Development Foundation / Bechtel National Inc., CBEP, DTRA

*Primary responsibilities:* Arrange and facilitate trainings on academic writing and grantsmanship (screen funding agencies, technical proposal, budgeting, and reporting) for representatives of the Ministry of Agriculture, Ministry of Health and Ministry of Defence of Azerbaijan / Quality check of the training materials and their translations into Azeri / Develop and coordinate grant proposals/ Provide laboratory expertise in molecular biology, serology, and bacteriology/ Analyze collected field and lab data/ Finalize required scientific and financial monthly, quarterly and final progress reports/ Mentor practical implementation of biosafety in BSL-2 laboratories/ Review scientific writings / Finalize project activities and accomplishments / Perform gap analysis / Develop a list of lessons learned and mitigations.

### **Senior Scientist**

**2004-Present**

Microbiology Institute of Azerbaijan National Academy of Sciences

*Primary responsibilities:* Develop and successfully implement research projects in fields of ecology, biodiversity conservation, and wildlife protection, remote sensing monitoring of agricultural productivity and landcover changes, and biotechnology / Enhance international collaboration with US and European universities and research laboratories / Analyze project implementation data / Develop quarterly and final progress reports /

Provide grant writing training and mentorship for the young scientists / Commodity Identification Training (CIT) of International Nonproliferation Export Control Program National Nuclear Security Administration, U.S DoE (2007-2012) / Attended Commodity Identification Training / Provide trainings for the Azerbaijani customs under NNSA Export Control Program / Translated “Cross Reference for Export-Controlled Chemicals” booklet for CIT Program from English into Russian and Azeri / European Council of Doctoral Candidates and Junior Researchers (EURODOC) / Introduced Azerbaijan Young Scientists Union to EURODOC in 2010 / Ambassador of Open Science, EURODOC, 2019-2020.

### **Adjunct Faculty**

**2010-2011 (Part-time)**

Baku State University

*Primary responsibilities:* Adjunct Instructor for Genetic Engineering course / Mentor MS students/ Participate in Joint Tempus Projects with Westminster University: Introduction of the Distance Learning technologies, Virtual Microbiology and University Quality Assurance.

### **Fulbright Scholar, Postdoctoral Fellow**

**2009-2010 (Full-time)**

Washington State University, USA

*Primary responsibilities:* Perform research work on environmental health and safety / Invited lecturer to the University of Oklahoma / Participate in STEM for kids’ project.

### **Visiting Ph.D. Scholar**

**2006-2007 (Full-time)**

Lund University, Sweden

*Primary responsibilities:* Perform part of PhD aimed at oil spill cleanup from water surfaces and soil / Performed molecular biology and gas chromatography analysis.

## **EDUCATION**

**Fulbright Postdoctoral Scholar**, Washington State University, USA, 2009-2010

**Ph.D. in Microbiology**, Microbiology Institute of Azerbaijan National Academy of Sciences, 2004-2008

**Visiting Ph.D. Scholar**, Lund University, Sweden, 2006-2007

**M.Sc. in Microbiology and Virology** (Honors), Baku State University, Azerbaijan, 1999-2001

**B.Sc. in Biology and Chemistry** (Honors), Baku State University, Azerbaijan, 1995-1999

## **LANGUAGES**

Azerbaijani – Native, Russian – Native, English – Fluent, Turkish – Good, German – Good

## **SCIENTIFIC AND PROFESSIONAL AWARDS**

- 2009-2010: Fulbright Visiting Postdoctoral Scholar (US Department of State)
- 2019: Travel grant for attendance of GIST Startup Training (US Department of State)
- 2010: Fulbright Invited Lecturer, University of Oklahoma (US Department of State)
- 2006-2007: Visiting PhD scholar INTAS FP6 (European Commission)
- 2005-2007: Research Awards (World Federation of Scientists)
- 2011: Travel grant for attendance Annual Meeting of Association of University Technology Managers, US (Science Technology Center in Ukraine)
- 2011: Best Business Plan Award (Ministry of Youth and Sport of Azerbaijan)
- 2007: Best Young Scientist Award (Ministry of Youth and Sport of Azerbaijan)
- 2007: Finalist of Best Science Communicator, FameLab (British Council)

## **TRAININGS & WORKSHOPS ATTENDED**

- Global Health at the Human-Animal-Ecosystem Interface Course, University of Geneva, 2018
- Project Management Professional, University of California, Irvine Division of Continuing Education, 2018
- Azerbaijan Open Science Ambassador of European Council of Doctoral Candidates and Junior Researchers, 2019.
- English for Science, Technology, Engineering, and Mathematics, University of Pennsylvania, 2018.
- Biosafety and Biosecurity training, Sandia National Labs, 2011- 2013.

- Field Epidemiology Training Programs, Quality Management System Course, 2011.
- OIE Reference Laboratory for Rabies, "Diagnosis and control of Rabies", Azerbaijan, 2013.
- Molecular Biology, Advanced course, Bechtel National Inc., Baku Azerbaijan, 2015.
- Workshop on Strategies for Success in Proposal Writing, CRDF, Tbilisi, Georgia, 2013.
- Distance Learning Technologies Training, University of Westminster, London, UK, 2010.
- Electron Microscopy Course, Washington State University, Franceschi Electron Microscopy and Imaging Center, US, 2009-2010.
- International Nonproliferation Export Control Program, NNSA, US DoE, Tbilisi, Georgia, 2007.
- Commodity Identification Training, International Nonproliferation Export Control Program, NNSA, US DoE, Ukraine, 2008.
- Workshop "From Idea to Market", STCU, Kharkov, Ukraine, 2008.
- Technology Transfer Management Course, STCU, Baku, Azerbaijan, 2008.
- Master Class "Beautiful Science Network", FameLab, British Council, Azerbaijan, 2007.
- Science Network Building Training, Istanbul, British Council, Turkey, 2008.
- Grant Solicitation Workshop, DTRA, CRDF, Baku, Azerbaijan, 2007.
- "ABSHERON" Summer School, Applied Ecology, WWF, Baku, Azerbaijan, 2006-2007.

### PEER-REVIEWED PUBLICATIONS

- Jacobs J., **Aliyeva S.**, Omarov A. Introduction Implementing Quality Management System Essentials // Journal for Quality and Participation, 2019, pp 27-32.
- **Aliyeva S.R.**, Petersen N.J., Park B.J., Abu-Lail N. I. *Paenibacillus naphthalenovorans* biofilms interact with and degrade naphthalene as observed using various microscopy techniques // Journal of Environmental Science and Engineering Technology, 2019, 7, pp.6-15.
- **Saida Aliyeva**, Peter Flanagan, April Johnson, Lisa Strelow. The development of a sustainable scientific research culture in Azerbaijan (2011-2015) // Frontiers in Public Health, 2016; vol. 4, article 144, <https://doi.org/10.3389/fpubh.2016.00144>.
- April Johnson, Gulshan Akhundova, **Saida Aliyeva**, Lisa Strelow. Implementation and evaluation of a training program as part of the Cooperative Biological Engagement Program in Azerbaijan // Frontiers in Public Health, 2015, vol. 3, article 228, <https://doi.org/10.3389/fpubh.2015.00228>.
- Bayramov E., **Aliyeva S.**, Bayramov R. Role of Satellite Observation and Geospatial Technologies for the Maintenance and Mitigation of Risks to Critical Energy Infrastructure of the Caspian Sea, ELSEVIER, IFAC PapersOnLine, 2018, 9-11.
- **Aliyeva S.R.**, Ismayilov N.M. Potential Role of Groundwater in Pollution of Coastal Water of the Caspian Sea by Organic Pollutants// ISSN 2079-0961, Arid Ecosystems, 2019, Vol. 9, No. 3, pp. 202–208, Pleiades Publishing, Ltd., 2019, <https://link.springer.com/article/10.1134/S2079096119030053>.
- Veliyev M.G., Bengt Danielsson, Salmanov M.A., **Aliyeva S.R.**, Bektashi N.R. Biodegradation of Baku oil and hydrocarbons by micromycetes // Journal of Petroleum Chemistry, 2008, v. 48, No 1, pp. 55-62.
- Veliyev M.G., Salmanov M.A., Bektashi N.R., **Aliyeva S.R.**, Gasanova A.R. Investigation of the process of biodegradation of aromatic hydrocarbons and phenols by a method of reversed-phase high-efficient liquid chromatography // Science Journal of Analytical Chemistry, 2013, vol. 1(2), pp. 7-11.
- Salmanov M.A., Veliyev M.G., **Aliyeva S.R.**, Bektashi N.R. The study of the degradation ability of oil products and oil hydrocarbons by microscopic fungi isolated from the polluted coastal areas of the Absheron Peninsula of the Caspian Sea // International Journal "Ecology" 2008, v. 68, No 17, pp. 59-64.

### PUBLISHED BOOK

Salmanov M.A., Veliyev M.G., Aliyeva S.R. Biodestruction and Biotransformation in organic synthesis.in Russian, Baku, Azerbaijan, Publisher: "Elm", 2011, 200 p.