

# Anna Samvel Harutyunyan

✉ [anna.harutyunyan@ysu.am](mailto:anna.harutyunyan@ysu.am)

ℝ<sup>6</sup>   

## Faculty of Biology

Chair of Ecology and Nature Conservation

Lecturer

## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Biology
<b>Date</b>	2020 - 2022
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Biology
<b>Date</b>	2016 - 2020
<b>Degree name</b>	Bachelor

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## Language skills

Հայերեն Русский English

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## Work experience

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2025 till now
<b>Rank/degree</b>	Junior Researcher

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2024 till now
<b>Rank/degree</b>	Lecturer

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2022 - 2023
<b>Rank/degree</b>	Lecturer on an hourly basis

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2022 - 2025
<b>Rank/degree</b>	Senior laboratory assistant

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## Scientific interests

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- Water resources monitoring and management
- Ecological evaluation of the environment
- Soil ecology
- Nanotechnologies

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## Participation in international conferences and seminars

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<b>12/11/2024 - 14/11/2024</b>	Sustainable Water Management, and Resource Adaptation (SWMRA) Université Paris Cité France
<b>22/05/2023 - 24/05/2023</b>	2nd Meeting of the International Network of Salt-Affected Soils (INSAS), Managing salt-affected soils for sustainable future FAO Uzbekistan

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## Publications

*Article*

**Adaptation and resilience: plants and microorganism responding to biogenic nanomaterial**

Morishwala Mohammad Farhan, Shreni Agrawal, Indrani Bhattacharya, Abhishek Singh, Anna Harutyunyan, Hasmik Movsesyan, Rupesh Kumar Singh, Francisco Roberto Quiroz-Figueroa, Joaõ Ricardo Sousa, Henrique Trindade, Mohamed S. Elshikh, Arunava Pradhan, Karen Ghazaryan  
Biogenic Nanoparticles Interplay with Climate Change and Implications for Human Health 2025 227-255

*Article*

**SALINITY STRESS RESPONSES AND PHYTODESALINATION POTENTIAL OF ARMENIAN LOCAL WHEAT GENOTYPE**

A.S. Harutyunyan  
Proceedings of the YSU B: Chemical and Biological Sciences 2025 122-133

*Article*

**Advancing Agricultural Resilience in Ararat Plain, Armenia: Utilizing Biogenic Nanoparticles and Biochar under Saline Environments to Optimize Food Security and Foster European Trade**

Abhishek Singh, Gohar Margaryan, Anna Harutyunyan, Hasmik S. Movsesyan, Hrant Khachatryan, Vishnu D. Rajput, Tatiana Minkina, Athanasios Alexiou, Dimitrios Petropoulos, Athanasios Kriemadis, Hassan El-Ramady, Karen Ghazaryan  
Egyptian Journal of Soil Science 2024 459-483

*Article*

**Utilizing nanotechnology in agriculture: A balancing approach between environmental health and risks**

Abhishek Singh, Bhavana Tomar, Anna Harutyunyan, Priyadarshani Rajput, Tatiana Minkina, Saglara Mandzhieva, Mohamed S. Elshikh, Shen-Ming Chena, Rupesh Kumar Singh, Hassan Ragab El-Ramady, Karen Ghazaryan  
Nanotechnology Applications and Innovations for Improved Soil Health 2024 380-399

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Article

**Soil Pollution: An Agricultural and Environmental Problem with Nanotechnological Remediation Opportunities and Challenges**

Karen Ghazaryan, Shreni Agrawal, Gohar Margaryan, Anna Harutyunyan, Priyadarshani Rajput, Hasmik Movsesyan, Vishnu D. Rajput, Rupesh Kumar Singh, Tatiana Minkina, Mohamed S. Elshikh, Mona S. Alwahibi, Athanasios Alexiou, Marios Papadakis, João Ricardo Sousa, Abhishek Singh  
Discover Sustainability 2024 1-33

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Article

**ԷԶՄԻԱԾՆԻ ՏԱՐԱԾԱՇՐՋԱՆԻ ԳՐՈՒՆՏԱՅԻՆ ԶՐԵՐԻ ՈՌՈԳԵԼԻ ՀԱՏԿՈՒԹՅՈՒՆՆԵՐԻ ԳՆԱՀԱՏՈՒՄԸ ԸՍՏ ՈՐՈՇ ՀԻՂՐՈՔԻՄԻԱԿԱՆ ՑՈՒՑԱՆԻՇՆԵՐԻ**

Ա.Ս. Հարությունյան, Հ.Է. Խաչատրյան, Կ.Ա.Ղազարյան  
Հայաստանի կենսաբանական հանդես 2023 13-21

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Article

**Study of tolerance and phytodesalination potential of wheat, oat, emmer, and barley for sustainable saline agriculture**

GHAZARYAN, K.A., HARUTYUNYAN, A.S., KHACHATRYAN, H.E., SINGH, A., MINKINA, T.M., RAJPUT, V.D., MOVSESYAN, H.S.  
Applied Ecology and Environmental Research 2023 4853-4882

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