



Vahagn Muradyan

Date of birth: 15/02/1985 | **Nationality:** Armenian | **Gender:** Male | **Phone number:**

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muradyanvahagn85@gmail.com | **Email address:** vahagn.muradyan@cens.am |

Skype: muradyan-asx | **Address:** Tsarav Aghbyur , 55/20, Yerevan, Armenia (Home)

WORK EXPERIENCE

01/09/2008 – CURRENT

HEAD OF RESEARCH GROUP ML CENTER FOR ECOLOGICAL – NOOSPHERE STUDIES NATIONAL ACADEMY OF SCIENCES OF RA

1. Landscape planning, estimation of landscape ecological risk and potential, ecological analysis of the soil,
2. study of the dynamics of landscapes /forest ecosystems/,
3. estimation of anthropogenic factor influence on ecosystems.
4. Implementation of the newest informational technology in geo-ecological, landscape-ecological research,
5. geographic information systems (GIS),
6. distance-observation technology
7. Remote sensing of water quality
8. Remote sensing of soil, vegetation, crops pollution
9. Remote sensing and GIS for the study of **climate**

Business or Sector Professional, scientific and technical activities | **Address** Abovyan 68, 0025, Yerevan, Armenia |

Website www.cens.am

01/09/2008 – CURRENT

HIGHER EDUCATION TEACHING PROFESSIONAL YEREVAN STATE UNIVERSITY (DEPARTMENT OF PHYSICAL GEOGRAPHY AND CARTOGRAPHY & CADASTRE)

- Landscape planning,
- Soil geography,
- Human development,
- Geographic information systems (GIS), Remote sensing.

Business or Sector Education | **Address** 1 Alek Manukyan, 0025, Yerevan, Armenia | **Website** www.y-su.am

01/09/2010 – CURRENT

LECTURER INTERNATIONAL SCIENTIFIC CENTRE (ISEC) AT THE NATIONAL ACADEMY OF SCIENCES RA

Ecological mapping

Address Yerevan, Armenia

01/09/2015 – 01/09/2022

LECTURER GAVAR STATE UNIVERSITY

Mapping, GIS

Address Gavar, Armenia

01/09/2018 – 01/09/2020

HIGHER EDUCATION TEACHING PROFESSIONAL YEREVAN STATE UNIVERSITY, IJEVAN BRANCH

Mapping, GIS

Address Ijevan, Armenia

01/09/2019 – CURRENT

UNIVERSITY TEACHING ASSISTANT NATIONAL UNIVERSITY OF ARCHITECTURE AND CONSTRUCTION OF ARMENIA

GIS & RS

01/09/2019 – CURRENT

UNIVERSITY TEACHING ASSISTANT ARMENIAN STATE UNIVERSITY OF ECONOMICS

Ecology and environment
GIS&RS

01/08/2021 – CURRENT Yerevan, Armenia

HEAD OF GEOMATIC CENTRE OF CADASTRE COMMITTEE RA

● EDUCATION AND TRAINING

01/09/2002 – 31/05/2006 Yerevan, Armenia

BACHELOR OF SCIENCE IN GEOGRAPHY Yerevan State University

Address Yerevan, Armenia

01/09/2006 – 23/05/2008 Yerevan, Armenia

MASTER OF SCIENCE IN GEOGRAPHY Yerevan State University

Address Yerevan, Armenia

15/06/2008 – 15/06/2011 Yerevan, Armenia

PHD - THESIS TITLE: A LANDSCAPE - ECOLOGICAL ASSESSMENT OF MOUNTAIN ECOSYSTEMS APPLYING GEOGRAPHICAL INFORMATION SYSTEM (ON THE EXAMPLE OF THE TERRITORY OF SYUNIK MARZ, RA) Yerevan State University

Address Yerevan, Armenia

● LANGUAGE SKILLS

Mother tongue(s): **ARMENIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
RUSSIAN	C2	C2	B2	B2	B2
ENGLISH	B2	B2	B2	B2	B2
GERMAN	A2	B1	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● ADDITIONAL INFORMATION

PUBLICATIONS

Publications

The total number of publications is 95.

Selected Publications:

1. Asmaryan Sh., Warner T., Muradyan V., Nersisyan G. // Mapping tree stress associated with urban pollution using the WorldView-2 Red Edge band / Taylor & Francis "Remote Sensing Letters", 2013, V.4; N2, 200-209
2. V.S. Muradyan, Sh.G. Asmaryan // Applying landscape-ecological concept and GIS modelling for assessing and mapping of ecological situation of mountainous landscapes (on the case of Syunik marz, Armenia) / Geocarto International, 2015, 30 (10), 1077-1091

3. G.H. Tepanosyan, Sh.G. Asmaryan, V.S. Muradyan, A.K. Saghatlyan // Mapping man-induced soil degradation in Armenia's high mountain pastures through remote sensing methods: A case study / Remote Sensing Applications: Society and Environment, 2017, 8, 105-113
4. Shushanik Asmaryan, Vahagn Muradyan, Garegin Tepanosyan, Azatuhi Hovsepian, Armen Saghatlyan, Hrachya Atsatryan, Hayk Grigoryan, Rita Abrahamyan, Yaniss Guigoz, Gregory Giuliani // Paving the Way towards an Armenian Data Cube / Data, 2019, 4 (3), 117
5. Vahagn Muradyan, Garegin Tepanosyan, Shushanik Asmaryan, Armen Saghatlyan, Fabio Dell'Acqua // Relationships between NDVI and climatic factors in mountain ecosystems: A case study of Armenia / Remote Sensing Applications: Society and Environment, 2019, 14, 158-169
6. Vahagn Muradyan, Garegin Tepanosyan, Shushanik Asmaryan, Nairuhi Maghakyan, Lilit Sahakyan // Estimating Mo, Cu, Ni, Cd Contents in the Crop Leaves Growing on Small Land Plots Using Satellite Data / Communications in Soil Science and Plant Analysis, 2020, 51 (11), 1457-1468
7. Garegin Tepanosyan, Vahagn Muradyan, Azatuhi Hovsepian, Gleb Pinigin, Andrey Medvedev, Shushanik Asmaryan // Studying spatial-temporal changes and relationship of land cover and surface Urban Heat Island derived through remote sensing in Yerevan, Armenia / Building and Environment, 2021,187,107390
8. Hrachya Atsatryan, Hayk Grigoryan, Rita Abrahamyan, Shushanik Asmaryan, Vahagn Muradyan, Garegin Tepanosyan, Yaniss Guigoz, Gregory Giuliani // Shoreline delineation service: using an earth observation data cube and sentinel 2 images for coastal monitoring / Earth Science Informatics, 2022,15(3),1587-1596
9. Vahagn Muradyan, Shushanik Asmaryan, Grigor Ayyvazyan, Fabio Dell'Acqua // Multidecadal Trend Analysis of Armenian Mountainous Grassland and Its Relationship to Climate Change Using Multi-Sensor NDVI Time-Series / Geosciences, 2022, 12 (11), 412
10. Garegin Tepanosyan, Vahagn Muradyan, Gevorg Tepanosyan, Rima Avetisyan, Shushanik Asmaryan, Lilit Sahakyan, Michael Denk, Cornelia Gläßer. Exploring relationship of soil PTE geochemical and "VIS-NIR spectroscopy" patterns near Cu-Mo mine (Armenia), Environmental Pollution. Volume 323, 2023, 121180,ISSN 0269-7491,https://doi.org/10.1016/j.envpol.2023.121180.

NETWORKS AND MEMBERSHIPS

Memberships From 2016:Council of the Yerevan State University (Member)

From 2014: Council of the Center for Ecological – Noosphere Studies National Academy of Sciences of RA (Member)

From 2005: Armenian Geographical Society (Member)

CONFERENCES AND SEMINARS

Conferences 2012 32nd International Geographical Congress (26-30.08.2012). - Cologne, Germany.

2012 The short course on environmental Modeling of the SNSF/SCOPES EMOCLIP project(QGIS Training Courses) , 2-6 July 2012, Geneva, Switzerland.

2012 FP7 EnviroGRIDs Final meeting & Black Sea Day celebration (30.10-1.11.2012)., Batumi, Georgia

2013 "Environmental Data Sharing for the Benefit of the South Caucasus Region", ARPEGEO project Symposium (QGIS Training Courses) (Yerevan, Armenia) "Integration of Spatial Decision Support Systems and Evidence Based Modeling in National/Regional Policy Applications and Regulatory Systems", University College Dublin (UCD) in Dublin, Republic of Ireland

2013 International conference, "GlobalSoilMap", 7-9 October Orleans, France 2013.

2013 International conference, "Soil Spectroscopy: the present and future of Soil Monitoring", Rome, Italy 4 - 6 December 2013.

2014 5th International Conference on Cartography and GIS, 15-21 June, 2014, Riviera, Bulgaria

2014 CEU SUMMER UNIVERSITY: Bridging ITCs and Environment. Spatial Planning and Environmental Assessment for Decision Making in Europe (QGIS Training Courses). In cooperation with FP7 EcoArm2ERA (UNIGE, UCD, CENS, GIRAF) and European Commission, from 7 July, 2014 to 11 July, 2014, Budapest, Hungary.

2014 International summer school of the modern trends in science: Scientometrics, from August 6 till August 7, 2014, Yerevan, Armenia

2014 8 international youth school conference "Meridian", Kursk, Russia.

2015 Modern problems of development and territorial distribution of the economy of the Republic of 2015 Armenia, Yerevan, Armenia.

2015 The II International Scientific Conference, «Regional Problems of Earth Remote Sensing», Krasnoyarsk, Russia.

2015 International Scientific Conference "Applied Ecology: Problems, Innovations", Tbilisi – Batumi, Georgia.

2015 SPIE (Society of Photo-Optical Instrumentation Engineers) Remote Sensing and Security, Toulouse, France.

2016 The 34th National and the 2nd International Geosciences Congress Tehran, Iran from 22 to 24 February, 2016.

2016 33rd International Geographical Congress – China, Beijing, 21-25.08.2016

2017 ISTC seminar- Almaty, 20-21 April 2017 ,

2017. Trans-Atlantic training 2017"Multi-sensor Approaches in Studying Land Use/Land Cover Change" " at University of Pécs. Hungary on 16-20 June, 2017.

2017. International Conference "Integrated innovative development of Zarafshan region: achievements, challenges and prospects", 26-27 October, 2017, Navoi, Uzbekistan.

2018. 7th International Conference on Cartography and GIS, 18-23 June 2018, Sozopol, Bulgaria

2019.VI International Scientific Conference «Regional Problems of Earth Remote Sensing» RPERs 2019,Russia, Krasnoyarsk, 10-13.09.2019

2019.International Scientific Conference <<Caucasus Mountain Forum>> (CMF2019),Ankara, Turkey, 30.10-01.11.2019.

PROJECTS

Projects 1. The Ecological risk assessment of territory of Sotq mine and adjacent areas. // Geopromining Gold Ltd. / _ - 2008

2. EU Cooperation Capacity Building of Center for Ecological-Noosphere Studies of National Academy of Sciences of Armenia: Towards Armenia's integration into the ERA (EcoArm2ERA) // Funded by EU FP7 Capacities Work programme 2010: Coordination and Support Action / Grant agreement N294924 - 2011
3. Deploying Armenian distributed Processing capacities for Environmental GEOspatial data (ARPEGEO) // Swiss National Scientific Foundation / IZ74Z0_137325 - 2011
4. Development of remote sensing methods for assessment of heavy metal soil pollution (case study: Kajaran) // State Committee of Sciences of RA / 11B-1e009 - 2011
5. Community Agricultural Resource Management and Competitiveness Project // World Bank / CS-11/103 - 2011
6. A research project on building a lake Sevan water quality remote sensing monitoring system in the frames of a complex Sevan trout resources restoration program // The foundation for restoration of Sevan trout stocks and development for aquaculture / 01/05-16 - 2016
7. Developing a remote sensing method for assessing and predicting heavy metal pollution of agricultural crops in mountain regions// State budget supported grant, State Committee of Science MES RA / 16YR-1E018 - 2016
8. ConnectingNature // Horizon 2020 Framework Programme of the European Union / No 730222 - 2017
9. Development of a remote sensing method for assessing the ecological status of mountain lakes using high resolution data // State budget supported grant, State Committee of Science MES RA / 18RF-140 - 2018
10. Preparation of the Atlas of Zoonotic Infections in South Caucasus // US Governments Defense Threat Reduction Agency (DTRA) / HDTRA11910044 - 2020
11. Capacity building of using machine learning for processing geospatial data in geoecological investigations // Armenia / 20TTCCG-1E009 - 2020

2018-2019 Winner of a contest "Young Productive Scientist (under 35)"

2017-2018 Winner of a contest "Young Productive Scientist (under 35)"

2016-2017 Winner of a contest "Young Productive Scientist (under 35)"

Staff Mobility for Teaching Assignments (STA) ERASMUS PLUS KA107 2015/2016, Jagiellonian University, Kraków, Poland

Staff Mobility for Teaching Assignments (STA) ERASMUS PLUS KA107 2015/2016 University of Pavia, Pavia, Italy.

Staff Mobility for Teaching Assignments (STA) ERASMUS PLUS KA107 2018/2019 University of Madrid, Madrid, Spain.

Staff Mobility for Teaching Assignments (STA) ERASMUS PLUS KA107 2018/2019 University of Minho, Porto, Portugal.

Staff Mobility for Teaching Assignments (STA) ERASMUS PLUS KA107 2018/2019 Pedagogical University of Krakow, Krakow, Poland.

Staff Mobility for Teaching Assignments (STA) ERASMUS PLUS KA107 2018/2019 University of Silesia, Katowice, Poland.

CICOPS Scholarship for the year 2022 to cover 4 weeks of research University of Pavia, Pavia, Italy.

ORGANISATIONAL SKILLS

Organisational skills

- Exceptional leadership skills developed through work experience in research group
- Highly critical thinker with effective researching skills proven through work experience in project management.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Able to communicate effectively with a wide range of people, by showing interest and carefully listening to their needs.
- Strong presentation and demonstrating skills; Confident, articulate and professional speaking abilities.
- Flexible team player who prospers in a fast-paced work environment based on past experience

JOB-RELATED SKILLS

Job-related skills

- creation and maintenance of geodatabases,
- GIS modeling,
- land use planning,
- satellite image classification and interpretation,
- ecological mapping,
- field measurement with GPS.
- scripting

OTHER SKILLS

Other skills

Enjoy all sports particularly football and running. Love to travel and experience different cultures.