Artak Sargis Piloyan

Faculty of Geography and Geology
Chair of Cartography and Geomorphology
Acting Head of Chair (Assistant)

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Faculty of Sociology
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Scientific Worker

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Education

Faculty	Faculty of Sciences / Department of Geography
Date	2014 - 2016
Degree name	PhD student

Institution	Yerevan State University
Faculty	Geography and Geology
Date	2013 - 2018
Degree name	PhD student

Institution	Yerevan State University
Faculty	Geography and Geology
Date	2007 - 2009
Degree name	Masters

Institution	Yerevan State University
Faculty	Geography
Date	2001 - 2005
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2018
Degree name	Candidate
Scientific Supervisor	Vladimir Boynagryan

Research Topic	Classification of Landform Elements and Identification of Circular Structures in the Republic of Armenia based on Geomorphometric Parameters using GIS Methods

Language skills

English Русский Čeština

Membership

Institution	International Society for Digital Earth
Period of time	2025 till now

Institution	International Cartographic Association
Period of time	2019 till now

Publications

Article

Bridging Disciplinary and Experience Gaps to Advance Spatial Thinking and Geovisualisation in Higher Education
Vahan Manukyan, Artak Piloyan

Quaestiones Geographicae 2026 23-31

https://reference-global.com/article/10.14746/quageo-2026-0013

Article

APPLICATION OF MATRICES IN THE TOURISM MANAGEMENT SYSTEM OF THE REPUBLIC OF ARMENIA
M. S. TASHYAN, A. S. PILOYAN

Proceedings of the YSU C Geological and Geographical Sciences 2026 31-40

https://journals.ysu.am/proceedings-geol-geogr/en/article/view/vol60_no1_2026_p...

Article

Assessment of Afforestation and Reforestation Suitability Using Remote Sensing and GIS: A Case Study of the Sisian Forestry Unit, Syunik Province, Armenia
Sargis Gevorg Sargsyan, Paruyr Sergey Efendyan, Artak Sargis Piloyan

Anuário do Instituto de Geociências 2026 e72776

https://revistas.ufrj.br/index.php/aigeo/article/view/72776

Article

Assessment Of Ecosystem Services in the Ardvi Village
M. V. Chakryan, G. D. Avetisyan, A. T. Grigoryan, A. S. Piloyan

Proceedings of the YSU C Geological and Geographical Sciences 2025 19-28

Article

Spatial Accessibility to Urban Public Green Space: Case Study of Yerevan
Sarhat Petrosyan, Artak Piloyan

Advances in Science, Technology & Innovation/Advances in science, technology & innovation 2025

133-138

Conference

Катастрофическое наводнение на реке Дебед в мае 2024 г. (Армения)
В.Р. Бойнагрян, А.С. Пилоян

2025 61-76

https://www.debrisflow.ru/en/df25/

Article

Enhancing Environmental Education through Digital Earth Technologies and Applications
A. Piloyan, M. Petrosyan

International Journal of Geoinformatics 2024 29 - 35

Conference

SPATIAL DATA INFRASTRUCTURE OPTIMIZATION THROUGH SEGMENT-BASED ALGORITHM INTEGRATION: A COMPREHENSIVE RESEARCH REVIEW
Mariam Petrosyan, Artak Piloyan

2024 43-48

https://iccgis2024.cartography-gis.com/

Conference

Enhancing Quality Control Standards for Armenia's National Spatial Data Infrastructure: A Python-based Approach with Emphasis on Road Spatial Data Layers
Mariam Petrosyan, Artak Piloyan, Paruyr Efendyan

2024 1-2

https://eurocarto2024.org/

Study manual

«Arcgis 10» ծրագրային փաթեթ, ուսումնամեթոդական ուղեցույց
Ալեքսանդր Առաքելյան, Արտակ Փիլոյան

2024 118

Article

Assessing Spatio-temporal Changes of Floating Aquatic Vegetation in Lake Sevan Using Landsat Imagery and Vegetation Indices

Piloyan A.

International Journal of Geoinformatics 2023 1-11

Article

Երկրաձևաչափության հայերեն սահմանումների և տերմինների մասին
Ավագյան Ա. Ա., Փիլոյան Ա. Ս., Ուլոյան Հ.Ռ.

Proceedings of NAS RA Earth Sciences 2023 163-176

Article

FIRST MULTY-PROXY STUDIES OF HIGH-MOUNTAIN LAKES IN ARMENIA: PRELIMINARY RESULTS
Tatyana V. Sapelko, Vladimir R. Boynagryan, Mikhail A. Naumenko, Dmitry V. Sevastyanov,

Ivan G. Gabrielyan, Artak S. Piloyan, Liana A. Margaryan, Mikhail Yu Aleksandrin, Anton V. Terekhov

GEOGRAPHY ENVIRONMENT SUSTAINABILITY 2019 272-284

Conference

ГОЛОЦЕН АРМЕНИИ ПО ПРЕДВАРИТЕЛЬНЫМ РЕЗУЛЬТАТАМ ПЕРВЫХ КОМПЛЕКСНЫХ ИССЛЕДОВАНИЙ ВЫСОКОГОРНЫХ ОЗЕР

Т. В. Сапелко, В. Р. Бойнагарян, И. Г. Габриелян, М. А. Науменко, Д. В. Севастьянов, А. С. Пилоян, Л. А. Маргарян

2019 181-183

http://vsegei.com/ru/about/news/99166/

Conference

Past environmental changes in the South Caucasus according Armenia lakes and geomorphologic archives

Tatyana Sapelko, Vladimir Boynagryan, Mikhail Naumenko, Dmitry Sevastyanov, Ivan Gabrielyan, Artak Piloyan, Liana Margaryan, Mikhail Aleksandrin

2019 1

https://app.oxfordabstracts.com/events/574/program-app/submission/93610

Map

Land Suitability Map for Growth of Hazelnuts in Sisian Region, Armenia

Artak Piloyan

2019

Article

Toward a disaster risk assessment and mapping in the virtual geographic environment of Armenia

Arshavir Avagyan, Hasmik Manandyan, Aleksandr Arakelyan, Artak Piloyan

Natural Hazards 2018 283-309

https://www.springer.com/earth+sciences+and+geography/natural+hazards/journal/1...

Conference

Measuring Rural Accessibility in the GIS environment: Case study of Armenia

Artak Piloyan, Aram Gevorgyan

2018 417-425

https://iccgis2018.cartography-gis.com/

Article

Semi-automated classification of landform elements in Armenia based on SRTM DEM using k-means unsupervised classification

Artak Piloyan, Milan Konečný

Quaestiones Geographicae 2017 93–103

https://www.degruyter.com/view/j/quageo

Conference

Land Cover/Land Use Classification for Syunik Marz of Armenia Using RapideEye Satellite Imagery

Artak Piloyan, Aram Gevorgyan, David Vardanyan

2017 97-102

http://geosib.sgugit.ru/collections-of-materials-of-international-scientific-co...

Article

The Circular Structures of the Republic of Armenia Based on a Digital Elevation Model

Artak Piloyan, Arshavir Avagyan

European Journal of Geography 2016 58-70

http://www.eurogeographyjournal.eu/

Conference

ELECTRONIC REGIONAL RISK ATLAS: DEVELOPMENT, STRUCTURE AND APPLICATION PRACTICE IN REPUBLIC OF ARMENIA

Aleksandr Arakelyan, Artak Piloyan, Arshavir Avagyan, Hayk Yeritisian, Hasmik Manandyan,

Anna Elbakyan, Radovan Hilbert

2016 834-845

http://iccgis2016.cartography-gis.com/

Conference

THE PRINCIPLES OF GUIDELINE FOR THE RIVER BASIN MANAGEMENT PLANNING IN ARMENIA

Artak Piloyan, Arshavir Avagyan, Alexander Arakelyan, Hayk Yeritsian, Arayik Mkrtumyan,

Hasmik Manandyan, Anna Elbakyan

2014 87-101

http://www.geology.am/files/All_articles_end.pdf

Conference

GIS FOR STATE WATER CADASTRE OF ARMENIA: CONTENTS, STRUCTURE, FUNCTIONS

Artak Piloyan, Arshavir Avagyan, Hayk Yeritsian, Arayik Mkrtumyan, Aleksandr Arakelyan,

Hasmik Manandyan, Anna Elbakyan, David Vardanyan

2014 65-75

http://www.geology.am/files/All_articles_end.pdf

Conference

Circular Features of Armenia

Artak Piloyan, Arshavir Avagyan

2013 63

http://www.asg.sav.sk/gfsb/v0131/Abstracts_Book.pdf

Article

О некоторых геоморфометрических показателях бассейна р. Агстев в пределах РА

А. С. ПИЛОЯН

Proceedings of the YSU C Geological and Geographical Sciences 2012 32-39

http://ysu.am/science/hy/1465212451

Article

ВЫДЕЛЕНИЕ И ОПРЕДЕЛЕНИЕ ВОДНЫХ ТЕЛ, ПОДВЕРЖЕННЫХ ЭКОЛОГИЧЕСКИМ РИСКАМ ПО КАЧЕСТВЕННЫМ И КОЛИЧЕСТВЕННЫМ ХАРАКТЕРИСТИКАМ НА ПРИМЕРЕ БАССЕЙНА РЕКИ АГСТЕВ

А. С. Пилоян, А. А. Аракелян

Известия НАН РА. Науки о Земле 2011 54-64

http://www.flib.sci.am/eng/erkragitutyun/Frame.html

Conference

СОВРЕМЕННЫЕ ЭКЗОГЕННЫЕ ПРОЦЕССЫ В БАССЕЙНЕ Р. АГСТЕВ (АРМЕНИЯ)

Бойнагрян В.Р., Пилоян А.С., Авагян А.А.

2011 70-72

http://www.irigs.irk.ru/docs/geomorpholgy/Irkutsk_Geomorphology_2011_T2.pdf

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Article

О высотных характеристиках рельефа территории Армении и методах их вычисления на основе цифровой модели рельефа масштаба 1:200000

А.С. Пилоян, А.А. Авакян, Г.Г. Ерицян

Известия НАН РА. Науки о Земле 2010 48-58

http://www.flib.sci.am/eng/erkragitutyun/Frame.html

Conference

DEVELOPMENT OF WATER RESOURCES MANAGEMENT PLAN FOR AGHSTEV RIVER BASIN OF ARMENIA

Artak Piloyan, Alexander Arakelyan, Arshavir Avagyan, Hasmik Manandyan, Hayk Yeritsian

2010 10-12

https://docs.google.com/file/d/0B4ZBnTTLy_oOZWU0MzNlNzEtNDI3YS00YzlkLWIwYzctOWE...

Conference

ОПЫТ ИССЛЕДОВАНИЯ ПРОДОЛЬНЫХ ПРОФИЛЕЙ РЕК БАССЕЙНА ОЗЕРА СЕВАН КАК ИНДИКАТОРОВ НОВЕЙШИХ ПРОЦЕССОВ РЕЛЬЕФООБРАЗОВАНИЯ

А.С. Пилоян, А.А. Авакян, А.Г. Ерицян

2010 27-28

https://www.researchgate.net/publication/271386834_Morphometric_Analysis_of_Sev...
