

# Artak Sargis Piloyan

## Faculty of Geography and Geology

Chair of Cartography and Geomorphology

Acting head of the chair, assistant

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## Education

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<b>Institution</b>	Masaryk University
<b>Faculty</b>	Faculty of Sciences / Department of Geography
<b>Date</b>	2014 - 2016
<b>Degree name</b>	PhD student

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

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Geography and Geology
<b>Date</b>	2007 - 2009
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Geography
<b>Date</b>	2001 - 2005
<b>Degree name</b>	Bachelor

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## Scientific Rank/degree

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2018
<b>Degree name</b>	Candidate
<b>Specialty</b>	Earth sciences
<b>Scientific Supervisor</b>	Vladimir Boynagryan
<b>Research Topic</b>	Classification of Landform Elements and Identification of Circular Structures in the Republic of Armenia based on Geomorphometric Parameters using GIS Methods

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## Language skills

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English Русский Čeština

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## Membership

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<b>Institution</b>	International Society for Digital Earth
<b>Period of time</b>	2025 till now

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<b>Institution</b>	International Cartographic Association
<b>Period of time</b>	2019 till now

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## Publications

*Article*

**Assessment Of Ecosystem Services in the Ardvi Village**

M. V. Chakryan, G. D. Avetisyan, A. T. Grigoryan, A. S. Piloyan

ԵՊՀ Գիտական տեղեկագիր. Երկրաբանական և աշխարհագրական գիտություններ 2025 19-28

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*Article*

**Spatial Accessibility to Urban Public Green Space: Case Study of Yerevan**

Sarhat Petrosyan, Artak Piloyan

Advances in Science, Technology and Innovation 2025 133-138

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*Article*

**Enhancing Environmental Education through Digital Earth Technologies and Applications**

A. Piloyan, M. Petrosyan

International Journal of Geoinformatics 2024 29 - 35

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*Manual*

**«Arcgis 10» ծրագրային փաթեթ, ուսումնամեթոդական ուղեցույց**

Ալեքսանդր Առաքելյան, Արտակ Փիլոյան

2024 118

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*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

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*Article*

**Երկրաձևաչափության հայերեն սահմանումների և տերմինների մասին**

Ավագյան Ա. Ա., Փիլոյան Ա. Ս., Ուլոյան Հ.Ռ.

ՀՀ ԳԱԱ Տեղեկագիր, Գիտություններ Երկրի մասին 2023 163-176

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*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

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Map

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

Artak Piloyan

2019

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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...>

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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>

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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/>

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Article

**Օ некотором геоморфометрических показателях бассейна р. Агстев в пределах РА**

А. С. ПИЛОЯН

ԵՊՀ Գիտական տեղեկագիր. երկրաբանական և աշխարհագրական գիտություններ 2012 32-39

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

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Article

**ВЫДЕЛЕНИЕ И ОПРЕДЕЛЕНИЕ ВОДНЫХ ТЕЛ, ПОДВЕРЖЕННЫХ ЭКОЛОГИЧЕСКИМ РИСКАМ ПО КАЧЕСТВЕННЫМ И КОЛИЧЕСТВЕННЫМ ХАРАКТЕРИСТИКАМ НА ПРИМЕРЕ БАСЕЙНА 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>

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Article

**Օ 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. Ерицяն

Известия НАН РА. Науки о Земле 2010 48-58

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

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Conference

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

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

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Conference

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

А.А. Авакян, А.Г. Ерицян, А.С. Пилоян

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Conference

**СОВРЕМЕННЫЕ ЭКЗОГЕННЫЕ ПРОЦЕССЫ В БАССЕЙНЕ Р. АГСТЕВ (АРМЕНИЯ)**

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

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Conference

**Circular Features of Armenia**

Artak Piloyan, Arshavir Avagyan

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Conference

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

Arshavir Avagyan, Alexander Arakelyan, Hayk Yeritsian, Arayik Mkrtumyan, Hasmik Manandyan,

Anna Elbakyan, Artak Piloyan

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Conference

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

Arshavir Avagyan, Hayk Yeritsian, Arayik Mkrtumyan, Aleksandr Arakelyan, Hasmik Manandyan,

Anna Elbakyan, David Vardanyan, Artak Piloyan

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Conference

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

Arshavir Avagyan, Radovan Hilbert, Hayk Yeritsian, Hasmik Manandyan, Aleksandr Arakelyan,

Artak Piloyan, Anna Elbakyan

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Conference

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

Artak Piloyan, Aram Gevorgyan, David Vardanyan

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Conference

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

Artak Piloyan, Aram Gevorgyan

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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

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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

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Conference

**SPATIAL DATA INFRASTRUCTURE OPTIMIZATION THROUGH SEGMENT-BASED ALGORITHM  
INTEGRATION: A COMPREHENSIVE RESEARCH REVIEW**

Mariam Petrosyan, Artak Piloyan

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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

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Conference

**Катастрофическое наводнение на реке Дебед в мае 2024 г. (Армения)**

В.Р. Бойнагрян, А.С. Пилоян

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