

Karen Larik Avetisyan

Faculty of Mathematics and Mechanics

Chair of General Mathematics

Head of the chair, professor

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Education

Institution	Yerevan State University
Faculty	Faculty of Mathematics
Date	1990 - 1993
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Mathematics
Date	1983 - 1990
Degree name	Masters

Scientific Rank/degree

Institution	Yerevan State University
Date	2018
Degree name	Professor
Specialty	Physico-mathematical sciences

Institution	Yerevan State University
Date	2000
Degree name	Associate professor
Specialty	Physico-mathematical sciences

Institution	Yerevan State University
Date	2009
Degree name	Doctor
Specialty	Physico-mathematical sciences
Research Topic	Weighted spaces of harmonic and holomorphic functions

Institution	Yerevan State University
Date	1996
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	F. Shamoyan
Research Topic	Classes of weighted integrable subharmonic functions on a disk and a half-plane

Language skills

English Русский

Work experience

Institution Chair of General Mathematics, Yerevan State University
Period of time 2018 till now
Rank/degree Professor, Head of the Chair

Institution American University of Armenia
Period of time 2017 - 2019
Rank/degree Adjunct Lecturer

Institution Chair of General Mathematics, Yerevan State University
Period of time 2014 - 2018
Rank/degree Head of the Chair

Institution Chair of Higher Mathematics, Yerevan State University
Period of time 2000 - 2013
Rank/degree Associate Professor

Institution Institute of Mathematics, National Academy of Sciences of Armenia
Period of time 1996 - 2002
Rank/degree Scientific Researcher

Institution Chair of Higher Mathematics, Yerevan State University
Period of time 1994 - 2000
Rank/degree Senior Lecturer

Institution Chair of Higher Mathematics, Yerevan State University
Period of time 1993 - 1994
Rank/degree Laboratory Assistant

Scientific interests

- Complex Analysis, Harmonic Analysis, Function Spaces, Clifford Analysis
-

Membership

Institution Specialized Council 050

 **Publications**

*Article***BOUNDED AND UNBOUNDED BERGMAN TYPE PROJECTIONS ON THE BLOCH SPACE**

Karen Avetisyan

Journal of Classical Analysis 2025 47--61

*Article***Bergman Operators on Clifford Monogenic Bergman Spaces**

Karen Avetisyan, Klaus Guerlebeck

Advances in Applied Clifford Algebras 2025 21 pages

*Article***Some Harmonic Bergman-Type Projections on Besov and Bloch Spaces**

Karen Avetisyan

Trends in Mathematics 2025 pp. 67-73

*Article***Harmonic projections on Besov spaces in the real ball**

Karen Avetisyan

Indian Journal of Pure and Applied Mathematics 2024 11 pp.

*Article***On Bergman type operators on weighted monogenic Bergman spaces**

K. Avetisyan, K. Guerlebeck

AIP Conference Proceedings 2024 260003

*Article***Bergman type projection on Lipschitz spaces**

K. Avetisyan

ՀՀ ԳԱԱ Տեղեկագիր, Մաթեմատիկա (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))
2024 317—325

*Article***Estimates for harmonic reproducing kernel and Bergman type operators on mixed norm and Besov spaces in the real ball**

Karen Avetisyan

Annals of Functional Analysis 2023 29 pages

*Article***НЕРАВЕНСТВА ТИПА МАРЦИНКЕВИЧА-ЗИГМУНДА В ВЕЩЕСТВЕННОМ ШАРЕ**

К. Аветисян

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))
2022 35-44

Article

Дробное интегрирование в весовых пространствах Лебега

К. Аветисян

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))
2021 3-17

Article

Poisson—Bergman Type Operators on Lipschitz and Mixed Norm Spaces in the Real Ball

K.L. Avetisyan

Lobachevskii Journal of Mathematics 2019 1025–1033

Article

NORMAL WEIGHTED BERGMAN TYPE OPERATORS ON MIXED NORM SPACES OVER THE BALL IN C_n

Karen L. Avetisyan, Albert I. Petrosyan

Journal of the Korean Mathematical Society 2018 313--326

<http://jkms.kms.or.kr/>

Article

On weighted Dirichlet spaces of monogenic functions in R^3

Karen Avetisyan, Klaus Guerlebeck

Mathematical Methods in the Applied Sciences 2018 9511-9528

Manual

Լոկալ և պայմանական էքստրեմումներ

Վ. Ավետիսյան

2018 132

Article

Weighted spaces of harmonic functions in the unit ball

A.I. Petrosyan, K.L. Avetisyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2017 3-7

<http://www.ysu.am/science/en/journals>

Article

Операторы типа Бергмана на пространствах со смешанной нормой в шаре из C^n

К. Аветисян, Н. Гапоян

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))
2016 3-12

<http://jmath.sci.am/index.php/rus>

Article

О некоторых операторах типа Бергмана с нормальными весами в шаре из C^n

К.Л. Аветисян, А.И. Петросян

Доклады НАН РА 2016 270-277

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

Article

Об операторе дробного интегродифференцирования в \mathbb{R}^n

К. Аветисян, Е. Тоноян

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))
2015 3--16

<http://jmath.sci.am/index.php/rus>

Conference

On weighted Dirichlet spaces in the ball

K. Avetisyan

Conference

On harmonic conjugates in weighted Dirichlet spaces of quaternion-valued functions

K. Avetisyan

Conference

On normal weighted Bergman type operators on mixed norm spaces

K. L. Avetisyan, N. T. Gapoyan

Conference

On harmonic conjugation problem in spaces of quaternion-valued functions

K.L. Avetisyan

Conference

On some Hardy-Littlewood type inequalities for weighted spaces in reduced quaternions

K. Avetisyan, K. Guerlebeck

Conference

On bounded projections on Bloch and Lipschitz spaces over the real ball

K.L. Avetisyan

Conference

Hadamard three spheres theorem for quaternion-valued functions

K. Avetisyan

Conference

On Bergman type operators on Lipschitz and mixed norm spaces over the real ball

AVETISYAN KAREN

Conference

TWO-SIDED ESTIMATES FOR REPRODUCING KERNELS AND RELATED OPERATORS

Karen Avetisyan

Conference

On harmonic projection operators on mixed norm spaces over the real ball

K. Avetisyan

Conference

On weighted Dirichlet spaces of quaternion-valued functions

