

# Karen Larik Avetisyan

## Faculty of Mathematics and Mechanics

Chair of General Mathematics

Head of the chair (professor)

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## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Mathematics
<b>Date</b>	1990 - 1993
<b>Degree name</b>	PhD student

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Mathematics
<b>Date</b>	1983 - 1990
<b>Degree name</b>	Masters

## Scientific Rank/degree

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2018
<b>Degree name</b>	Professor
<b>Specialty</b>	Physico-mathematical sciences

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2000
<b>Degree name</b>	Associate professor
<b>Specialty</b>	Physico-mathematical sciences

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

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

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## Language skills

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English Русский

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## Work experience

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

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

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

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

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

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

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

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## Scientific interests

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

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<b>Institution</b>	Specialized Council 050
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 **Publications**

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

Karen Avetisyan

Journal of Classical Analysis 2025 47--61

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

Karen Avetisyan, Klaus Guerlebeck

Advances in Applied Clifford Algebras 2025 21 pages

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

Karen Avetisyan

Trends in Mathematics 2025 pp. 67-73

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

Karen Avetisyan

Indian Journal of Pure and Applied Mathematics 2024 11 pp.

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

K. Avetisyan, K. Guerlebeck

AIP Conference Proceedings 2024 260003

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*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

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*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

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*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

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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

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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

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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/>

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Article

**On weighted Dirichlet spaces of monogenic functions in  $R^3$**

Karen Avetisyan, Klaus Guerlebeck

Mathematical Methods in the Applied Sciences 2018 9511-9528

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Manual

**Լոկալ և պայմանական էքստրեմումներ**

Վ. Ավետիսյան

2018 132

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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>

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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>

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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>

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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>

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*Conference*

**On weighted Dirichlet spaces in the ball**

K. Avetisyan

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*Conference*

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

K. Avetisyan

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*Conference*

**On normal weighted Bergman type operators on mixed norm spaces**

K. L. Avetisyan, N. T. Gapoyan

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*Conference*

**On harmonic conjugation problem in spaces of quaternion-valued functions**

K.L. Avetisyan

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*Conference*

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

K. Avetisyan, K. Guerlebeck

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*Conference*

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

K.L. Avetisyan

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*Conference*

**Hadamard three spheres theorem for quaternion-valued functions**

K. Avetisyan

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*Conference*

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

AVETISYAN KAREN

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*Conference*

**TWO-SIDED ESTIMATES FOR REPRODUCING KERNELS AND RELATED OPERATORS**

Karen Avetisyan

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*Conference*

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

K. Avetisyan

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*Conference*

**On weighted Dirichlet spaces of quaternion-valued functions**

