

# Karen Aleksander Keryan

✉ karenkeryan@ysu.am

## Faculty of Mathematics and Mechanics

Ֆունկցիաների տեսության և դիֆերենցիալ հավասարումների ամբիոն  
Assistant

## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Mathematics and Mechanics
<b>Date</b>	2007 - 2009
<b>Degree name</b>	PhD student

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Mathematics and Mechanics
<b>Date</b>	2005 - 2007
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Mathematics and Mechanics
<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>	Doctor
<b>Specialty</b>	Physico-mathematical sciences
<b>Research Topic</b>	Convergence, uniqueness and basis problems for orthonormal spline systems

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2009
<b>Degree name</b>	Candidate
<b>Specialty</b>	Physico-mathematical sciences
<b>Scientific Supervisor</b>	Gevorkyan Gegham
<b>Research Topic</b>	Questions of basisness of general periodic Franklin system

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## Work experience

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<b>Institution</b>	Supreme Certifying Committee
<b>Period of time</b>	2021 - 2023

<b>Rank/degree</b>	Chairman
<b>Institution</b>	American University of Armenia
<b>Period of time</b>	2015 - 2022
<b>Rank/degree</b>	Adjunct lecturer
<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2008 till now
<b>Rank/degree</b>	Assistant professor

## State awards and honorary titles

2018 RA Presidential Award

## Publications

*Article*

### **Periodic orthonormal spline systems with arbitrary knots as bases in $H_1(T)$**

K. Keryan, L. Hakobyan

Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences) 2023 33-42

*Article*

### **A uniqueness theorem for orthonormal spline series**

K. A. Keryan, A. L. Khachatryan

Reports of NAS RA 2023 7-11

*Article*

### **A Uniqueness theorem for Franklin series**

K. Keryan, A. Khachatryan

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2020 43-56

*Article*

### **CONVERGENCE TO INFINITY FOR ORTHONORMAL SPLINE SERIES**

G. G. GEVORKYAN, K. A. KERYAN, M. P. POGHOSYAN

Acta Mathematica Hungarica 2020 604-617

*Article*

### **Unconditionality of periodic orthonormal spline systems in $L_p$**

K. Keryan, M. Passenbrunner

Studia Mathematica 2019 57-91

*Article*

### **Reconstruction of martingales and applications to multiple Haar series.**

Karen Keryan, Mamikon Ginovyan

Studia Scientiarum Mathematicarum Hungarica 2018 542-558.

*Article*

**О локальной эквивалентности мажоранты частичных сумм и функции Пэли для рядов Франклина**

Геворкян Г.Г., Керян К.А.

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2017 47-58

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

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*Article*

**An example of double Fourier-Haar series with a nonregular subseries**

K.A. Keryan

Proceedings of the YSU. Physical and Mathematical Sciences 2017 18-21

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

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*Article*

**О базисности в  $H^1(\mathbb{R})$  ортонормальных систем сплайнов на  $\mathbb{R}$  с нулевыми средними**

К.А. Керян

Доклады НАН РА 2017 14-20

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

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*Article*

**Теорема единственности для рядов Франклина**

К.А. Керян

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2017 26-38

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

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*Article*

**Uniqueness theorem for sequences of piecewise polynomial functions**

K.A. Keryan

Armenian Journal of Mathematics 2017 28-34

<http://www.flib.sci.am/eng/journal/Math/>

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*Article*

**On recovery of a Franklin series from its sum**

K.A. Keryan

Proceedings of the YSU. Physical and Mathematical Sciences 2017 151-157

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*Article*

**Orthonormal spline systems on  $\mathbb{R}$  with zero means as bases in  $H^1(\mathbb{R})$**

K. Keryan

Analysis Mathematica 2017 581-601

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*Article*

**Об одной системе кусочно линейных функций с нулевыми интегралами**

Геворкян Г.Г., Керян К.А.

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))

2016 3-16

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

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*Article*

**О безусловной базисности в  $H^1(\mathbb{R})$  системы функций Франклина с нулевыми средними**

К.А. Керян

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))

2016 43-71

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

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*Article*

**Теорема единственности для кратных рядов Чисельского**

К.А. Керян

Доклады НАН РА 2016 263-270

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

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*Article*

**Общая периодическая система Франклина как базис в пространстве  $B^1(\mathbb{T})$ .**

К.А. Керян

Доклады НАН РА 2015 178-184

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

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*Article*

**Unconditionality of orthogonal spline systems in**

G. Gevorkyan, A. Kamont, K. Keryan, M. Passenbrunner

Studia Mathematica 2015 123-154

<https://www.impan.pl/en/publishing-house/journals-and-series/studia-mathematica>

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*Article*

**Одна теорема единственности аддитивных функций и ее приложение к некоторым ортогональным рядам**

К.А. Керян

Математические заметки (MATHEMATICAL NOTES) 2015 382-396

[http://www.mathnet.ru/php/journal.phtml?jrnid=mzm&option\\_lang=rus](http://www.mathnet.ru/php/journal.phtml?jrnid=mzm&option_lang=rus)

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