

# Viktor Karo Ohanyan

(010) 46-33-32

victoohanyan@ysu.am

## Faculty of Mathematics and Mechanics

Chair of Probability Theory and Mathematical Statistics

Head of the chair, professor

## Education

|             |                           |
|-------------|---------------------------|
| Institution | Yervan State University   |
| Faculty     | Mechanics and mathematics |
| Date        | 1966 - 1971               |
| Degree name | Qualified specialist      |

## Scientific Rank/degree

|             |                                   |
|-------------|-----------------------------------|
| Institution | Sankt Petersburg State university |
| Date        | 1999                              |
| Degree name | Professor                         |
| Specialty   | Physico-mathematical sciences     |

## Language skills

Հայերեն Русский English Deutsch

## Work experience

|                |                          |
|----------------|--------------------------|
| Institution    | Yerevan state university |
| Period of time | 1975 till now            |
| Rank/degree    | Head of chair, professor |

## Scientific interests

- Probability theory
- Mathematical statistics
- Stochastic and integral geomery

## Publications

*Article*

**On the Euclidean distance between two gaussian points and the normal covariogram of  $R^d$**   
Ohanyan V. K., D. M. Martirosyan

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2024 38-46

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*Article*

**Portfolio Value-at-risk approximation for geometric Brownian motion**

V. K. Ohanyan, H. Kechejian, V. G. Bardakhchyan

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2024 110-119

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*Article*

**Orientation-Dependent Chord length Distribution Functions of Bounded Convex Domains**

V. K. Ohanyan, N. G. Aharonyan

Data Science and Reliable Machine Learning 2024 77-81

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*Article*

**On intersection probabilities of four lines inside a planar convex domain**

Davit Martirosyan, Victor Ohanyan

Journal of Applied Probability 2023 504-527

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*Article*

**Investigation of Convex Bodies in  $R^3$  by Support Planes**

H. O. Harutyunyan, V. K. Ohanyan

Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences) 2023 101-104

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*Article*

**RELATION BETWEEN THE COVARIOGRAM AND DISTRIBUTION FUNCTION OF THE DISTANCE BETWEEN TWO UNIFORM AND INDEPENDENT POINTS**

Victor K. Ohanyan, Vigen H. Khalatyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2022 33-42

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*Article*

**ALGORITHM OF CALCULATION OF COMBINED COMMODITY OPTIONS VALUE**

V. K. OHANYAN, V. G. BARDAKHCHYAN, H. KECHEJIAN (USA)

Известия НАН РА. Математика (Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2022 77 -- 84

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*Article*

**LOSS FUNCTIONS AND DESCENT METHOD**

V. K. Ohanyan, H. Z. Zohrabyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2021 29-35

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*Article*

**Распределение длины случайного отрезка и ковариограмма нечеткого выпуклого тела**

В. К. Оганян, В. Г. Бардакчян, Е.И. Улитина

ՀՀ ԳԱԱ Տեղեկագիր, Մաթեմատիկա ( Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences))  
2020 43 - 56

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*Article*

**On Poisson Mixture of Lognormal Distributions**

H. Kechejian, V. K. Ohanyan, V. G. Bardakhchyan

Lobachevskii Journal of Mathematics 2020 340-348

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*Article*

**Orientation-Dependent Chord Length Distribution Function for Right Prisms with Rectangular or Right Trapezoidal Bases**

V.K. Ohanyan, D. M. Martirosyan

Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences) 2020 344 - 355

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*Article*

**COVARIOGRAM OF A RIGHT PARALLELEPIPED**

V. K. OHANYAN, G. L. ADAMYAN

Proceedings of the YSU A. Physical and Mathematical Sciences 2019 101-108

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*Article*

**Fuzzification of convex bodies in  $R^n$**

Ohanyan V.K., Bardakhchyan V.G., Simonyan A.R., Ulitina E.I.

Программные системы и вычислительные методы 2019 1-10

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*Article*

**Calculation of Geometric Probabilities Using Covariogram of Convex Bodies**

N. G. Aharonyan, V. K. Ohanyan

Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences) 2018 113-120

<https://link.springer.com/journal/11957>

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*Article*

**Curran's Method for Approximating Arithmetic Average Option for Several Futures**

Victor K. Ohanyan, Hagop Kechejian, Vardan G. Bardakhchyan

Modeling of Artificial Intelligence 2017 14-20

<http://ejournal11.com/>

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*Article*

**Pattern Recognition by Cross Sections**

Narine G. Aharonyan, Victor K. Ohanyan

Modeling of Artificial Intelligence 2017 72-77

<http://ejournal11.com/>

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*Article*

**Monte Carlo Method for Geometric Average Options on Several Futures**

Viktor Ohanyan, Hagop Kechejian, Vardan Bardakhchyan

Modeling of Artificial Intelligence 2016 88-93

<http://ejournal11.com/>

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*Article*

**Moments of the distance between two random points**

Victor Ohanyan, Narine Aharonyan

Modeling of Artificial Intelligence 2016 64-70

<http://ejournal11.com/>

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Article

**Moments of the distance between two random points**

Victor Ohanyan; n, N.G.Aharonyan

Modeling of Artificial Intelligence 2016 64-70

<http://ejournal11.com/>

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Article

**Expected Value and the Laplace Transform of the Maximum for I.I.D. Exponentials**

Victor K. Ohanyan, Alexander Thomasian

Modeling of Artificial Intelligence 2016 pp. 151-157

<http://ejournal11.com/>

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Article

**Orientation-Dependent Chord Length Distribution as a function of Maximal Chord**

Victor Ohanyan, Ara Gasparyan

Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences) 2015 253-257

<http://www.allertonpress.com/journals/sam.htm>

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Conference

**Recognition of convex bodies by probabilistic methods**

Victor Ohanyan

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Conference

**Probabilistic characteristic of convex bodies depending on orientation**

Victor Ohanyan

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Conference

**Distribution of random cross-sections of bodies**

Victor Ohanyan

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Conference

**Covariogram of convex bodies and geometric probabilities**

V. OHANYAN

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Conference

**ORIENTATION-DEPENDENT DISTRIBUTIONS OF CROSS-SECTIONS**

V.K. Ohanyan

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Conference

**Calculation of Geometric Probabilities Using Covariogram of Convex Bodies**

V. K. Ohanyan

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Conference

**Covariograms and related concepts**

V. K. Ohanyan

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Conference

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V. K. OHANYAN

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**FOUNDATION OF STOCHASTIC GEOMETRY**

Victor K. Ohanyan

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*Ematerial*

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ՎԻԿՏՈՐ ՕՀԱՆՅԱՆ

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**ՀԱՎԱՆԱԿԱՆՈՒԹՅՈՒՆՆԵՐԻ ՏԵՍՈՒԹՅՈՒՆ-1**

ՎԻԿՏՈՐ ՕՀԱՆՅԱՆ

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**ՀԱՎԱՆԱԿԱՆՈՒԹՅՈՒՆՆԵՐԻ ՏԵՍՈՒԹՅՈՒՆ-2**

ՎԻԿՏՈՐ ՕՀԱՆՅԱՆ

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*Conference*

**TOMOGRAPHY PROBLEMS IN STOCHASTIC GEOMETRY**

V. K. Ohanyan

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*Conference*

**Reconstruction of bodies in  $R^n$  using tomographic methods of stochastic geometry**

V. Ohanyan

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*Conference*

**RECONSTRUCTION OF CONVEX BODIES BY PROBABILISTIC METHODS**

Ohanyan V. K.

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*Conference*

**GENERALIZATION OF THE CONCEPT OF COVARIOGRAM FOR UNBOUNDED MEASURABLE SETS**

V. K. Ohanyan

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