

ARA GASPARYAN

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Komitas str. 23, apt. 34,
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EDUCATION

- PhD** [Yerevan State University, Faculty of Mathematics and Mechanics, The Chair of Probability Theory and Mathematical Statistics](#) 2012 - 2016
Dissertation: “[Orientation-dependent chord length distribution function and covariogram for bounded convex bodies](#)”
- MA** [Yerevan State University, Faculty of Mathematics and Mechanics, The Chair of Probability Theory and Mathematical Statistics](#) 2010 - 2012
Thesis title: “Orientation-dependent chord length distribution function for bounded convex domains”
- BA** [Yerevan State University, Faculty of Mathematics and Mechanics](#) 2004 - 2008
Bachelor’s degree in Mathematics and Pedagogics
- PS** [Yerevan secondary school N 62](#) 1994 - 2004

EXPERIENCE

- [Mesrop Mashtots Institute of Ancient Manuscripts](#) 2018 - present
Position: **Software Engineer**
Job description: Design, customize and develop web-based tools and APIs for automatization of daily operations of the digitization workflows, including quality control activities, searching in digital repositories, tracking and analyzing statistics, monitoring of digital items and serving orders.
Application support for intranet modules. Jira administration.
Schedule and train volunteers.

[Russian-Armenian University](#) 2018
Position: **Lecturer**
Department of Mathematical Cybernetics.

[American University of Armenia](#) 2018
Position: **Teaching Associate**
The Zaven and Sonia Akian College of Science and Engineering.

[Get It, LLC](#) 2016 - 2018
Position: **Full Stack Web Engineer, DevOps**
Job description: Develop sites and web-based tools (frontend, backend and database development).
Design, code and implement changes to mission-critical websites, integrate into third-party tools and APIs.
Recommend performance, usability and feature enhancements to existing websites and software systems.

Yerevan State University 2014 - 2015
Position: **Lecturer**
Faculty of Mathematics and Mechanics,
The Chair of Probability Theory and Mathematical Statistics.

Mesrop Mashtots Institute of Ancient Manuscripts 2010 - 2013
Position: **Java Developer**
Job description: Create, customize, test and support software applications and tools for the digitization process of medieval manuscripts and archival documents as well as for the service of digital copies. Design databases.

Yerevan State University 2013
Position: **Lecturer**
Faculty of Mathematics and Mechanics,
The Chair of Probability Theory and Mathematical Statistics.

Mesrop Mashtots Institute of Ancient Manuscripts 2010 - 2013
Position: **Digitization Specialist**
Job description: Contribute to the development of best guidelines and practices as well as maintain documentation on digitization process.
Track digitization statistics. Schedule and train volunteers.

PUBLICATIONS

Journal Publications

A. G. Gasparyan, “[Pair of lines and maximal probability](#)”. Proceedings of the YSU, Physical and Mathematical Sciences, no. 2, 3-6, 2015.

A. G. Gasparyan and V. K. Ohanyan, “[Orientation-dependent chord length distribution as a function of maximal chord](#)”. Journal of Contemporary Mathematical Analysis (Armenian Academy of sciences), vol. 50, no. 5, 253–257, 2015.

A. G. Gasparyan and V. K. Ohanyan, “[Orientation-dependent distribution of the length of a random segment and covariogram](#)”. Journal of Contemporary Mathematical Analysis (Armenian Academy of sciences), vol. 50, no. 2, 90-97, 2015.

A. G. Gasparyan and V. K. Ohanyan, “[Covariogram of a parallelogram](#)”. Journal of Contemporary Mathematical Analysis (Armenian Academy of sciences), vol. 49, no. 4, 194-206, 2014.

A. G. Gasparyan and V. K. Ohanyan, “[Recognition of triangles by covariogram](#)”. Journal of Contemporary Mathematical Analysis (Armenian Academy of sciences), vol. 48, no. 3, 110-122, 2013.

Conference Papers

A. G. Gasparyan, “Orientation-dependent chord length distributions and maximal chords”, Abstracts, Armenian Mathematical Union, [7th Annual Session dedicated to the 100th anniversary of Professor Haik Badalyan](#), Yerevan, 2015, 25-26.

A. G. Gasparyan, “Characterization of convex bodies which cross-sections distribution depends only on the maximum cross section”, Abstracts, [International science and applied conference: actual problems of mathematical modeling and computer science, 15–24 May, Sochi, 2015](#), 16-17.

A. G. Gasparyan, “Random segment and covariogram”, Abstracts, Armenian Mathematical Union Annual Session, Yerevan, 2014, 16-17.

A. G. Gasparyan and V. K. Ohanyan, “Covariogram of a parallelogram”, [Second international conference Mathematics in Armenia: advances and perspectives, 24 - 31 August, Tsaghkadzor, 2013](#), 89-90.

A. G. Gasparyan and V. K. Ohanyan, “Covariogram of a triangle and chord length distribution”, Abstracts, Armenian Mathematical Union, [Annual Session 2013 dedicated to 90 anniversary of Rafael Alexandrian, Yerevan, 2013](#), 35-36.

A. G. Gasparyan and V. K. Ohanyan, “The covariogram of a triangle and orientation-dependent chord length distribution”, Abstracts, Armenian Mathematical Union, [Annual Session 2012 dedicated to 1400 anniversary of Anania Shirakatsy, Yerevan, 2012](#), 35-36.

GRANTS AND AWARDS

State Committee of Science of the Republic of Armenia 2018 - current
Research topic: Metric generation and stochastic tomography; [Grant number 18T-1A252](#)

DAAD 2015 - 2016
University: Friedrich Schiller University of Jena
Research topic: Covariograms and probabilistic characteristics characteristics of convex bodies

State Committee of Science of the Republic of Armenia 2014 - 2015
Research topic: The calculation of covariogram for subclasses of bodies; [Grant number 14A-1a09](#)

The Research Mathematics Fund 2012 - 2014
Scholarship as a perspective PhD student

State Committee of Science of the Republic of Armenia 2010 - 2012
Research topic: Tomographic problems in stochastic geometry and theory of convexity; [Grant number 11-1A-359](#)

Yerevan State University Foundation 2011 - 2012
Full scholarship as a perspective student

Yerevan State University Foundation 2004 - 2008
Full scholarship (BA)

SKILLS

- Research, Microservices, Algorithms, Email Marketing
- OOP, MVC, TDD, RDBMS, OAuth 2.0, Docker
- Vargant, Ubuntu, CentOS, Git, MySQL, XML / JSON
- PHP, Python, JavaScript, R, Java

- Slim, Wordpress, Zend, Symphony, PHPUnit, Twig, Laravel, Flask
- REST API, RSS, Apache, AJAX / JQuery, HTML5 / CSS3
- Jira, MailChimp, Bitbucket, FileStack, Salesforce, SendGrid, QuickBooks

PROFESSIONAL TRAINING

[ISTC - YSU](#)

Training name: **Summer School on Machine Learning** 2018

[AITC](#)

Training name: **JAVA Programming (Level 1,2,3)** 2014 - 2015

Training name: **Web Programming** 2015

Radix

Training name: **Linux System Administration** 2014

Linux Server Administration, Linux Server Security

AITC

Training name: **Database Management Systems** 2013

Armenian photographers national association

Training name: **Photography Course** 2013

LANGUAGES

Armenian (Native), **English** (Fluent), **Russian** (Fluent)

MILITARY SERVICE

Ministry of defence of the Republic of Armenia, 2008 - 2010
[Department of Information and Public Affairs](#)

INTERESTS AND HOBBIES

Literature, Digital Humanities, classical music, philosophy, medieval manuscripts, photography, numismatics.