

Curriculum Vitae¹

Samvel B. Gasparyan, PhD



Biostatistician

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Professional Experience

2019 January – Present	: Statistical Consultant at Randstad .
Description	: Biostatistician for Phase III studies in CVRM : (cardiovascular, renal and metabolism) therapeutic areas.
2016 November – 2018 November	: Bio-Statistician at FMD K&L Inc.
(March – August, 2017	: Worked in headquarters, Fort Washington, PA, USA.)

Job Description

- Assists in the:
 - development of randomization schedule, sample size and power calculations
 - development of the Statistical Methods section
 - implementation of protocol methodology and statistical analysis plans (SAP)
- Contribute to decision making on design and data collection ensuring alignment with trial objectives

1. Updated - December 15, 2019

- Oversee company's statistics-related activities to ensure that timelines are followed
- Perform peer review of protocol, SAP, trial report, and other major deliverables including publications
- Work with project team to decide on appropriate study design and statistical methodology for routine designs
- Review and QC of the programming part, which includes
 - validating TLG (Tables, Listings, Graphs) programming
 - validating ADaM datasets and mapping specifications

Experience

- Method comparison studies with the *package* **mcr**.
- Statistical methods for epidemiological studies including the **Fisher's exact test**, **chi-square test** and **logistic regression** (the *built-in function* **glm()**).
- Statistical methods for modeling linear relationships, **linear regression**, **one-way ANOVA**, **two-way ANOVA** and **ANCOVA** (the *built-in function* **aov()**).
- Survival Analysis using the *package* **survival**.
- Modeling non-linear relationships using the *built-in function* **nls()**.
- Modeling linear and non-linear relationships with mixed effects using the *package* **nlme**.
- Modeling non-linear relationships with B-splines using the *package* **splines**.
- Data wrangling using the *packages* **dplyr**, **tidyr** and **reshape2**.
- Data visualization using the *package* **ggplot2**.
- Creating data science products (interactive graphs and generating summary tables) with the *package* **shiny**.

Teaching Experience

2018	:	
September – December	:	Lecturer at ASDS program, Yerevan State University
January – May	:	Teaching associate at American University of Armenia.
2017	:	
January – February	:	Teaching associate at American University of Armenia.
2016	:	
September – December	:	Teaching associate at American University of Armenia.
September – December	:	Teaching associate at Yerevan State University, Armenia.
2015–2016	:	Temporary Teaching and Research Assistant (ATER) at Le Mans University, France.
2014–2015	:	Teaching associate at Le Mans University, France.

Education

2012–2016 : Phd Student, joint program between Le Mans University (France) and Yerevan State University (Armenia). Scientific advisors Y.A. Kutoyants (France), V.K. Ohanyan (Armenia).
: (Financed by a French Government Scholarship).

2010–2012 : Master in Mathematics, Faculty of Mathematics and Mechanics, Yerevan State University. Specialization “Theory of Probability and Mathematical Statistics”.

2006–2010 : Bachelor in Mathematics, Faculty of Mathematics and Mechanics, Yerevan State University.

Publications

1. Gasparian S.B., (2015) “[Second order asymptotical efficiency for a Poisson process.](#)” *J. Contemp. Math. Anal.*, 50(2), 98-106.
2. Gasparian S.B. and Kutoyants Yu.A., (2015) “[On approximation of the BSDE with unknown volatility in forward equation.](#)” *Armenian J. Mathem.*, 7(1), 59-79.
3. Gasparian S.B. and Kutoyants Yu.A., (2017) “[On the Lower Bound in Second Order Estimation for Poisson Processes: Asymptotic Efficiency.](#)” *Mathematical Methods of Statistics*, 26(1), 1-19.

Projects & Consultancy

1. Gasparian S.B., Davtyan K. (2018) “[Easy Statistics Shiny Application](#)” *A platform for conducting research data analysis.*
2. 4-9 March, 2019 - Statistical Consultant for Structured Operational Research Training (SORT) in the framework of the European Tuberculosis Research Initiative (ERI-TB), Module 3, [WHO Regional Office for Europe](#), Copenhagen, Denmark.
3. 7-14 December, 2018 - Statistical Consultant for Ukrainian Structured Operational Research and Training Initiative (SORT IT) organized under the leadership of [WHO/TDR](#), Lviv, Ukraine.
4. 17-24 August, 2018 - Statistical Consultant for National Armenian Structured Operational Research and Training Initiative (SORT IT) organized under the leadership of [WHO/TDR](#), Yerevan, Armenia.

Presentations

1. 10 June, 2016 - [Dynstoch 2016](#) (Dynamics & Stochastics), 8-10 June, 2016, University of Rennes 1, Rennes, France (Oral Presentation). ([Slides](#), [Photo](#))
2. 18 mars, 2015 - [S.A.P.S. X](#) (Asymptotic Statistics for Stochastic Processes), 17-20 March, 2015, Le Mans University, France (Poster). ([Photo](#))

Conferences Attendance

1. 18-21 October, 2017 - NSF-FAST Workshop “Machine Learning for Discovery Sciences”, Yerevan, Armenia.
2. 20-25 June, 2016 - Summer School “Mathematical Methods of Statistics”, Angers, France.
3. 23-27 May, 2016 - The Days of Probabilities, Le Mans University, France.
4. 8-12 February, 2016 - Mathematical Statistics and Inverse Problems, CIRM, Marseille, France.
5. 14-18 December, 2015 - Meeting in Mathematical Statistics, Fréjus, France.
6. 18-19 December, 2013 - Statistics for Stochastic Processes and Analysis of High Frequency Data, University Paris 6, Paris, France.
7. 11-14 March, 2013 - [S.A.P.S. IX](#) (Asymptotic Statistics for Stochastic Processes), Le Mans University, France.

Teaching

- 2018-2019** : Yerevan State University (Yerevan, Armenia),
R Programming, M1 (Applied Statistics and Data Science Master Program).
- 2017-2018** : American University of Armenia (Yerevan, Armenia),
Statistics problems solving, B3 (for Computer Science Students).
- 2016-2017** : Yerevan State University (Yerevan, Armenia),
Statistics problems solving, B4 (for Mathematicians),
American University of Armenia (Yerevan, Armenia),
Data Science with R, B3 (for Computer Science Students).
American University of Armenia (Yerevan, Armenia),
Probability problems solving, B3 (for Computer Science Students).
- 2015-2016** : Le Mans University (France), Total 192h,
Statistics with R, M1 (for Mathematicians),
Linear Algebra, B1 (for Physicists),
Analysis, B1 (for Engineers),
General Mathematics, B1 (for Engineers),
Mathematical Tools, B1 (for Biologists),
Descriptive Statistics, B1 (for Biologists),
Descriptive Statistics, B1 (for Biologists).
- 2014-2015** : Le Mans University (France), Total 46h,
Statistics with R, M1 (for Mathematicians),
Numerical Series and Discrete Probabilities, B2 (for Engineers),
Descriptive Statistics, B1 (for Biologists).

Skills

Informatics : R, SAS, Python (including Pandas), L^AT_EX, MS Excel

- Languages** :
- **Armenian** Native speaker
 - **French** Fluent (Teaching Experience in France)
 - **English** Fluent (TOEFL IBT, 102/120, 2015)
 - **Russian** Fluent