

# Naira Yurik Gasparyan

✉ [nairagasparyan@ysu.am](mailto:nairagasparyan@ysu.am)



## Institute of Physics

Chair of Physical Process Modeling and Signal Processing

Senior laboratory assistant

## Education

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|--------------------|--------------------------|
| <b>Institution</b> | Yerevan State University |
| <b>Faculty</b>     | Institute of Physics     |
| <b>Date</b>        | 2023 - 2024              |
| <b>Degree name</b> | PhD student              |

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| <b>Institution</b> | Pan-Armenian Center of Excellence |
| <b>Faculty</b>     | Quantum and Mesoscopic Physics    |
| <b>Date</b>        | 2022 - 2024                       |
| <b>Degree name</b> | Masters                           |

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| <b>Institution</b> | Yerevan State University |
| <b>Faculty</b>     | Faculty of Radiophysics  |
| <b>Date</b>        | 2019 - 2021              |
| <b>Degree name</b> | Masters                  |

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|--------------------|--------------------------|
| <b>Institution</b> | Yerevan State University |
| <b>Faculty</b>     | Faculty of Radiophysics  |
| <b>Date</b>        | 2015 - 2019              |
| <b>Degree name</b> | Bachelor                 |

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## Language skills

Հայերեն English Русский

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## Work experience

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| <b>Institution</b>    | Yerevan State University |
| <b>Period of time</b> | 2022 till now            |
| <b>Rank/degree</b>    | Lecturer                 |

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| <b>Institution</b>    | A. Alikhanyan National Science Laboratory |
| <b>Period of time</b> | 2021 till now                             |
| <b>Rank/degree</b>    | Assistant                                 |

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| <b>Institution</b>    | Yerevan State University |
| <b>Period of time</b> | 2020 till now            |
| <b>Rank/degree</b>    | Assistant                |

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## State awards and honorary titles

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2024 "Annual educational award for the best students in the field of IT" in the "Best PhD" category

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## Publications

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*Article*

### **Hybrid Bispectrum-Waterfall Feature Extraction with CS-DSB for RF Receiver**

N.Y. Gasparyan, A.A. Hakhumian, E.R. Sivolenko

Armenian Journal of Physics 2025 43-47

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*Article*

### **Analysis of Harmonic Signals in Non-Real Time of Moving Targets in Complex Environments Using Higher-Order Statistics in LabVIEW [Анализ гармонических сигналов в нереальном времени движущихся целей в сложных средах с использованием статистики более ВЫСОКО]**

A. Hakhoumian, M. Barseghyan, N. Gasparyan, B. Hovhannisyan, E. Sivolenko

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024 408-412

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*Article*

### **Combining Bispectral Analysis with the Levenberg-Marquardt Algorithm for Enhanced Non-linear Signal Processing in Astronomy**

E. Sivolenko, N. Gasparyan, A. Aharonyan, V. Avetisyan, M. Vinnichenko

Communications of the Byurakan Astrophysical Observatory 2024 402-408

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*Article*

### **15.5 MeV proton irradiation treatment of liquid phase exfoliated graphene**

Narek Margaryan, Naira Gasparyan, Samvel Mayilyan, Eduard Aleksanyan, Andranik Manukyan,

Mikayel S. Torosyan

Diamond and Related Materials 2024 111224

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*Article*

### **More accurate and effective monitoring of moving targets in complex environments using "spectral mask" for harmonic signatures using higher-ordered statistics**

Eduard Sivolenko, Arsen Hakhoumian, Naira Gasparyan, Mane Barseghyan, Hakob Babayan

IET Conference Proceedings 2024 49-52

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*Article*

### **SC-DSB signal as a probe signal for testing nonlinearity in electronic circuits**

Naira Gasparyan, Arsen Hakhoumian, Eduard Sivolenko, Mane Barseghyan

IET Conference Proceedings 2024 75-78

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*Article*

**Functionalization of Graphene Oxide Layers Simultaneously with Liquid Phase Exfoliation**

L. Anjo, A. Arshakyan, N. Gasparyan, A. Shahinyan, E. Aleksanyan, N. Margaryan

Armenian Journal of Physics 2023 56-61

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