# Naira Yurik Gasparyan

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in

**Institute of Physics**
Chair of Physical Process Modeling and Signal Processing
Senior laboratory assistant

## 🎓 Education

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

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

| Institution | Yerevan State University |
|---|---|
| Faculty | Faculty of Radiophysics |
| Date | 2019 - 2021 |
| Degree name | Masters |

| Institution | Yerevan State University |
|---|---|
| Faculty | Faculty of Radiophysics |
| Date | 2015 - 2019 |
| Degree name | Bachelor |

## 🌐 Language skills

Հայերեն English Русский

## 🗂 Work experience

| Institution | Yerevan State University |
|---|---|
| Period of time | 2022 till now |
| Rank/degree | Lecturer |

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

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|---|---|
| **Institution** | Yerevan State University |
| **Period of time** | 2020 till now |
| **Rank/degree** | Assistant |

## ☆ State awards and honorary titles

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

## 📖 Publications

*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

*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. Sivolenkoa

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

*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

*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

*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

*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

*Article*