

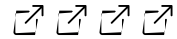
Babken Arthur Hovhannisyan

Institute of Physics

Chair of Radiophysics and Telecommunications

Assistant

✉ b.hovhannisyan@ysu.am



Education

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2019 - 2022
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2017 - 2019
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2013 - 2017
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2022
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	Armen Makaryan
Research Topic	INVESTIGATION OF BIOLOGICAL SIGNALS USING HIGHER-ORDER SPECTRAL ANALYSIS

Language skills

Հայերեն Русский English

Work experience

Institution	YSU
Period of time	2022 till now

Rank/degree lecturer

Institution Institute of Radiophysics and Electronics

Period of time 2022 - 2025

Rank/degree Junior Researcher

Institution Russian-Armenian University

Period of time 2022 till now

Rank/degree Senior lecturer

Institution Aviation University named after A. Khanperyants

Period of time 2020 - 2021

Rank/degree Lecturer

Institution National instruments

Period of time 2019 - 2025

Rank/degree engineer

Institution LT-Pyrkal

Period of time 2016 - 2019

Rank/degree engineer

Scientific interests

- Digital processing of biological signals
 - Statistical Signal Analysis
 - Digital signal processing
-

Membership

Institution Council of Young Scientists of RA National Academy of Sciences

Period of time 2022 till now

Institution Member of YSU Board of Trustees

Period of time 2017 - 2022

Institution Member of academic council of Radiophysics Faculty

Period of time 2014 - 2022

State awards and honorary titles

2021 "Annual educational award for the best students in the field of IT" in the "Best PhD" category

2019 YSU "Best Student-2019"

2019 "Bronze medal" from Yerevan State University

Publications

Article

Sensor Technologies for Brain Signal Registration and RF Emission Analysis

Babken Hovhannisyan, Tigran Hovhannisyan, Armen Makaryan, Vanand Mkhoyan

Armenian Journal of Physics 2025 48-52

Article

IMPLEMENTATION AND OPTIMIZATION OF 5G NETWORKS USING SOFTWARE-DEFINED RADIO (SDR) AND OPENAIRINTERFACE (OAI)

B.A. Hovhannisyan, A.S. Vardanyan, K.Z. Vardanyan

Armenian Journal of Physics 2025 14-17

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. Gasparian, B. Hovhannisyan, E. Sivolenkoa

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

Article

Techniques for Locating GPS Jammers using GNU Radio

B. Hovhannisyan, M. Sahakyan, V. Mkhoyan, E. Sivolenko, A. Aharonyan, S. Makarov

Communications of the Byurakan Astrophysical Observatory 2024 409-411

Article

Statistical analysis of the electroencephalographic signals

Babken Hovhannisyan, Tigran Hovhannisyan, Armen Makaryan, Eduard Sivolenko, Vanand Mkhoyan

IET Conference Proceedings 2024 23-25

Article

Biosignal processing using machine learning methods

A. Mkoyan, A. Manasyan, A. Makaryan, B. Hovhannisyan, T. Hovhannisyan, S. Khachunts

International Conference on Microwave & THz Technologies, Wireless Communications and OptoElectronics (IRPhE 2022)
2023 22987012/ 4-6

Article

Biosignal processing using machine learning methods

T. Hovhannisyan, A. Makaryan, B. Hovhannisyan, S. Khachunts, A. Mkoyan, A. Manasyan

International Conference on Microwave & THz Technologies, Wireless Communications and OptoElectronics (IRPhE 2022)
2023 3

Article

Registration of Brain Radio Signals and Their Bispectral Analysis

B. A. Hovhannisyanyan, H.L. Ayvazyan, S.V. Antonyan, A. H. Makaryan, E. R. Sivolenko, G. A. Tsaturyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 87-90

Article

Extracting Human Brain Signals from the EEG Records Using LabVIEW and Advanced Signal Processing

Babken Hovhannisyanyan, Eduard Sivolenko, Armen Makaryan, Hamlet Ayvazyan, Andrei Medvedev,

Valentina Temkina

Springer Proceedings in Physics (International Youth Conference on Electronics, Telecommunications and Information Technologies)

2022 183-190

Article

РЕГИСТРАЦИЯ РАДИОСИГНАЛОВ МОЗГА И ИХ БИСПЕКТРАЛЬНЫЙ АНАЛИЗ

Г.Л. АЙВАЗЯН, С.В. АНТОНЯН, А.О. МАКАРЯН, Б.А. ОГАНЕСЯН, Э.Р. СИВОЛЕНКО, Г.А. ЦАТУРЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2022

125-130

Article

Study of Brain Radio Signals Using Bispectral Analysis

B.A. Hovhannisyanyan

Armenian Journal of Physics 2021 138-141

Article

ЧАСТОТНО-ВРЕМЕННОЙ АНАЛИЗ ЭЛЕКТРОКАРДИОГРАММ

Б.А. ОГАНЕСЯН, А.О. МАКАРЯН, Т.Н. ОГАНЕСЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2020

575-581

Conference

AM signal finding in the environment full of micro doppler shifts using bispectral analysis.

Babken Hovhannisyanyan, Sivolenko Eduard, Andrey Medvedev
