



# Daniil Vlasenko

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## Education

**HSE University**, Institute for Cognitive Neurosciences  
PhD, Doctoral School of Cognitive Science  
Moscow, Russia, November 2025 – present

**HSE University**, Institute for Cognitive Neurosciences  
MS, Cognitive Sciences and Technologies  
Moscow, Russia, September 2023 – June 2025

**Saint Petersburg State University (SPbU)**, Department of Mathematics and Mechanics  
BS, Applied Mathematics and Computer Science  
St. Petersburg, Russia, September 2019 – June 2023

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## Additional education

**Neuromatch Academy**, NeuroAI course  
Online, 14 - 25 July 2025

**Neuromatch Academy**, Computational Neuroscience course  
Online, 8 - 26 July 2024

**Mediterranean School of Complex Networks**  
Grado, Italy, 30 June - 5 July 2024

**Bioinformatics Institute (BI)**, Professional retraining program "Algorithmic Bioinformatics"  
St. Petersburg, Russia, September 2022 – January 2023

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## Selected Publications

**(Q1 Scientific Journal)** Krivonosov, M., Nazarenko, T., Ushakov, V., Vlasenko, D., Zakharov, D., Chen, S., Blyus, O., & Zaikin, A. (2025). Analysis of Multidimensional Clinical and Physiological Data with Synolitical Graph Neural Networks. *Technologies*, 13(1), 13.

Vlasenko, D., Zaikin, A., & Zakharov, D. (2024). *Ensemble methods for representation of fMRI, EEG/MEG data in graph form for classification of brain states*. In *Proceedings of the 2024 8th Scientific School Dynamics of Complex Networks and Their Applications (DCNA)* (pp. 258–261). Kaliningrad, Russian Federation.

Additional publications can be found on my [Google Scholar page](#).

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## Selected Conferences

Volga Neuroscience Meeting 2025, The 7th International Conference "Neurotechnologies and Neurointerfaces", topic "From Pairwise to High-Order: Hypergraph Methods and Multivariate Connectivity Metrics for EEG/MEG" (poster presentation)  
Nizhny Novgorod, Russia, 25 - 29 August 2025

International School and Conference on Network Science: **NetSci 2025**, topic "Ensemble-Based Graph Representation of fMRI Data for Cognitive Brain State Classification" (poster presentation)  
Maastricht, the Netherlands, 2-6 June 2025

Baltic Forum 2024: Neuroscience, Artificial Intelligence and Complex Systems, VIII Scientific School "Dynamics of Complex Networks and their Applications", topic "*Ensemble methods for representation of fMRI, EEG/MEG data in graph form for classification of brain states*" (poster presentation).  
Kaliningrad, Russia, 19–21 September 2024

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## Scholarships and fellowships

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**Combined Master's-PhD track at HSE University**, the talent program designed for graduate students enrolled on full-tuition scholarships.  
September 2023 – present

**Academic Development Program (New Scientist category) at HSE University**, the talent management program aimed at supporting the professional development of promising teachers and researchers.  
January 2024 - May 2025

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## Honors and Awards

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**Winner (1st Place)**, Information Technology & Mathematics Section, 10th All-Russian Youth Scientific Forum "Science of the Future – Science of the Youth".  
September 2025.

Certificate of Excellence "Best Diploma of the Year 2025", HSE University Institute for Cognitive Neuroscience.  
June 2025

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## (Selected) Research experience

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**Russian Science Foundation Interdisciplinary Grant 24-68-00030 "Next Generation Cognitive Artificial Intelligence"**

Research-assistant  
June 2024 - present

My tasks: development of representation methods of fMRI, EEG/MEG data in graph form and application of graph neural networks for a classification task of brain states.

Technologies: python, scikit-learn, pytorch geometric, igraph, nilearn, mne, scipy, numpy, pandas; R, dplyr, tidyr, ggplot2.

**HSE University, Institute for Cognitive Neurosciences, Strategic Project "Human Brain Resilience", subproject "AI-based listening diagnostic systems"**

Research-assistant  
September 2023 – December 2024

My tasks: development of neuromorphic dynamic models of speech information processing based on cross-frequency interaction of macroscopic brain rhythms.

Technologies: python, numpy, pandas, matplotlib, scipy, jax, imit\_utils, syllabify, brian2, brian2hears.

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## Teaching experience

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Supervision of course and diploma works of undergraduate students, **HSE University**  
September 2024 – present

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## Languages

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Russian (native), English (B2)

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## Skills

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### Programming

Python – NumPy, Pandas, Matplotlib, SciPy, scikit-learn, PyTorch, PyTorch Geometric, igraph, nilearn, mne; R – dplyr, tidyr, ggplot2, igraph; C++; MySQL; algorithms and data structures; Linux-based operating systems; familiar with remote server operation (terminal, Bash), version control systems (git, GitHub), HTML, CSS, JavaScript and Selenium; preparing documents and presentation slides using LaTeX.

**Data analysis and machine learning**

Classical data analysis; analysis of categorical data; network analysis; machine learning including deep learning; databases (SQL queries). Analysis and preprocessing of fMRI, EEG/MEG data; analysis of neural electrode data (neuropixels probes).

**Mathematics**

Statistics; probability theory; graph theory; algebra; mathematical analysis; analytic geometry; computational mathematics; optimization methods.