

Yuri Temiraev

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SUMMARY

Aspiring Data Analyst with 4+ years of programming experience (research & pet projects). BSc in Physics (2020), MSc in Bioinformatics (2022, *cum laude*). Researcher in astrophysics for 3 years. Completed numerous projects covering data analysis, web technologies, ML & Deep Learning, and more.

SKILLS

Languages	Python, R, MySQL, UML
Libraries	numpy, pandas, scipy, sklearn, pytorch, matplotlib, plotly
Frameworks	Docker, Airflow
Tools	Git, Jupyter, Conda

EDUCATION

2022	Alferov University Master of Bioinformatics	Saint Petersburg, Russia
2020	Peter the Great Polytechnic University Bachelor of Physics	Saint Petersburg, Russia

WORK EXPERIENCE

Ioffe Institute | Laboratory for experimental astrophysics Nov 2020 – Dec 2023

Research Engineer

- Applied EM algorithm using mixtures of skewed distributions for event clusterization (paper in prep.)
- Implemented an ETL pipeline aggregating external data parsing and existing MySQL data to refine event coordinates
- Developed a CLI tool to process detector events in bulk using Python
- Reported new scientific findings as part of the Institute's astrophysics journal club

PROJECTS

Gevo [🔗](#) | Python, networkx, numpy

Python OOP implementation of Markov Process simulation on graphs.

Grbml [🔗](#) | Python, R, rpy2, pandas, numpy, plotly, matplotlib

Application of Machine Learning for astrophysics event clusterization done by integrating Python & R via rpy2.

Nwport [🔗](#) | Python, Jupyter, numpy, networkx, matplotlib

Researched model networks & human brain neural networks by exploring certain matrix properties of graphs.

- Qualified for International Summer School on Mathematics & Neuroscience (50 participants)
- Collaborated in a team of 5 people overseen by a project manager to meet tight deadlines
- Led the project presentation as a speaker to an audience of diverse professional backgrounds

PUBLICATIONS

Svinkin, Temiraev, et al. (Dec. 2020). "Spectral evolution of long gamma-ray bursts observed with Konus-Wind". In: *Journal of Physics Conference Series*. Vol. 1697. doi: [10.1088/1742-6596/1697/1/012003](https://doi.org/10.1088/1742-6596/1697/1/012003).

Burns, Svinkin, et al. (Mar. 2023). "GRB 221009A: The BOAT". In: *The Astrophysical Journal Letters* 946.1, p. L31. doi: [10.3847/2041-8213/acc39c](https://doi.org/10.3847/2041-8213/acc39c).

Zhukov, Kipyatkova, and Temiraev (Dec. 2023). "Network models of innovation diffusion". In: *Tomsk State University Journal of Control and Computer Science* 65.