Jakub Giezgała

Bioinformatics and Systems Biology Student
at the University of Warsaw

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> ***Biology and computer science - life***
> ***and computation - are related. I am***
> ***confident that great discoveries await***
> ***those who seek them at their interface.***

Languages

- Polish (Native speaker)
- English – B2
- German – A2

Hard Skills

- Programming languages: Python, C++, Java, R, MATLAB
- Web development: `HTML`, `CSS`, `Django`, `Flask`
- Machine Learning in Python: `NumPy`, `Scikit-learn`, `SciPy`, `UMAP`
- Deep learning in Python: `PyTorch`, `Torchvision`, `JAX`, `Pyro`, `Deeptime`
- Data analysis and visualization:
    - Python: `pandas`, `matplotlib`, `plotly`, `seaborn`, `Pillow`, `PyQt6`, `MEFISTO`, `Scanpy`
    - R: `ggplot2`, `ggdist`, `qqplotr`, `plotly`, `dplyr`, `tidyr`, `readr`, `caret`, `shiny`
- Experience in writing prompts for LLMs
- Proficient in Microsoft Office
- Driving license – Category B

Soft Skills

- Willingness for self-development and perfection
- Analytical thinking
- Teamwork skills
- Good time management
- Honesty and reliability

Courses

- NVIDIA - Fundamentals of Deep Learning
- SANTANDER - Fundamentals cybersecurity with Poznan University of Technology

Education

University of Warsaw
Faculty of Mathematics, Informatics and Mechanics
Degree: Bioinformatics and Systems Biology
Bachelor's degree (B.Sc.), final grade: 5
Currently a first-year Master's (second-cycle) student.

XVIII High School in Warsaw named after Jan Zamoyski
Math–Physics–Informatics profile
Graduated with honors in 2022

Experience

2021 – Present
Private tutoring in mathematics, physics and informatics (elementary and high school level, including final exam preparation)

2022 - Present
Active membership of the Bioinformatics Student Club (popularisation of science at research picnics: DOKO 2023/2024/2025)

Hackathons:

- QL Future Hackathon 2024 - Tech category
- DeepLife Hackathon (Heidelberg 30 May - 1 June 2025)

Scientific Conferences:

- Biomeeting, 24–26 May 2024, Poster Abstracts – *Using CNNs and ATAC-STARR-seq uncover predictive opportunities in regulatory genomics* & *From Cooperation to Competition: revealing stable correlations between features in the evolutionary game theory*
- International Student Biomedical Conference (*Biofusion*), 28-30 March 2025 – Bioinformatics workshop on *sc-RNA* data analysis pipeline
- Biomeeting, 23–25 May 2025, Poster Abstract - *Analysing Agent Based Evolutionary Games With Self Creating Strategies*