

# Jakub Gieźgała

*Bioinformatics and Systems Biology Student  
at the University of Warsaw*

**Date of birth:** 08.12.2004

**E-mail:** jakubgiezgala@gmail.com

**Phone number:** +48 501 416 203



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

## Languages

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

## Hard Skills

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- 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

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

## Courses

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

## Education

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### 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

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### 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)
- Neurohackathon Heroes of the Brain 2025 - Wellness category

### 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*