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Jan Malinowski

Applied Physics MSc

About me Since early childhood I have shown an aptitude for STEM fields, achieving many educational successes in them. My numerous interests led me to Bioinformatics undergraduate programm, which occur to be mathematicaly undemanding. This made me apply for similar programm at Faculty of Physics, which I have completed *summa cum laude*. Thanks to my educational achievments (received scholarship for best students twice) I was allowed to study there within individual course of study with my own proposed programm. Since that time, knowledge discovery and revealing hidden patterns in the data have become my passions. I am currently looking for a job that would be close to scientific research, in which my interdisciplinarity would be great asset.

Education

2016 - 2024, Faculty of Physics, University of Warsaw

Applications of Physics in Biology and Medicine, speciality: Molecular Modeling and Bioinformatics MSc (BSc finished *summa cum laude*)
Comparison of conformational variability within protein kinase catalytic subunits based on molecular dynamics simulations

2015 - 2016, Faculty of Mathematics, Informatics and Mechanics, University of Warsaw

Bioinformatics and Systems Biology

Experience

June 2022 - September 2022, KCR, Statistical Programmer Intern

- programming statistical data using SAS language,
- performing quality control tasks and working with statistical documentation,
- experience multinational team, using English language to communicate (remote work).

November 2021 - currently, Galileusz, Private Teacher

- explaining complex mathematical, physical and informatical ideas in understable manner,
- building soft skills through communication with students and their parents.

March 2020 - January 2021, Centre of New Technologies, University of Warsaw, Student Research Assistant

- applying various machine learning and statistical methods to issues concerning biophysics,
- using specialized Python libraries,
- comparing the molecular dynamics of protein folding.

August 2019 - November 2019, Ramp, Researcher

- creating reports and documentation on research tasks,
- mathematical modeling of financial products,
- performing statistical analyses in R programming language.

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June 2018 - September 2018, Laboratory of Biological Physics, Institute of Physics, Polish Academy of Sciences, Student Research Assistant

Realization of a paid project completed with publication in *Frontiers in Molecular Biosciences*.

Other

During last few years I have made several PhD theses' consultations regarding the data analysis.

Publications

Chwastyk, M., Panek, E. A., **Malinowski, J.**, Jaskólski, M. & Cieplak, M. Properties of Cavities in Biological Structures–A Survey of the Protein Data Bank. *Frontiers in Molecular Biosciences* **7**, 314 (2020).

Skills and qualifications

Programming languages

- Python
- R
- Mathemathica
- SAS
- C++
- SQL
- Java

During my studies I have mainly worked in Python and R, but I also have some experience in other mentioned languages.

Other

- statistical inferrence & machine learning in Python and R languages
- analysis and processing of different types of data
- knowledge of wide range of mathematical topics
- experience with typesetting in LaTeX system
- years of experience with Linux systems (Debian & Ubuntu distributions)
- knowledge of various programming paradigms and algorithms
- love for learning (wide range of topics) & fast learner & remarkable loyalty
- critical thinking & exceptional ability to understand different points of view & interdisciplinarity
- experience with reading scientific texts
- ability to conduct own research & high dilligence
- openness to different AI tools
- knowledge of some bioinformatics algorithms and specialized molecular modeling Python libraries
- experience with molecular modeling methods
- B2 English (both of my theses were written in it)

Interests

Professional

Mathematical modeling, research & development, statistical data analysis, economics, theoretical biophysics

Hobbies

Music, fantasy and science fiction literature, Japanese culture, philosophy, history