Jan Malinowski
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Adress
Warsaw
Poland

Jan Malinowski

Junior Data Scientist/Researcher

About me Since early childhood I have shown an aptitude for STEM fields. My various interests has lead me to Bioinformatics undergraduate program, that occured to be mathematicaly undemanding. This made me apply for similar program at Faculty of Physics, which I have completed *summa cum laude*. Owing to my educational achievments (receiving scholarship for best students twice) I was allowed to study within individual course. Since that time, knowledge discovery and revealing hidden patterns in data have become my passions. During last years I have managed to: become co-author of one publication, do few consultations regarding PhD theses' data analysis, successfully complete internship and work as a researcher. 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 - dropped due to the lack of educational challenges

Experience

June 2022 - September 2022, KCR, Statistical Programmer Intern (remote)

- programming statistical data using SAS language,
- performing quality control tasks and working with statistical documentation,
- experience working in multinational (English speaking) team.

November 2021 - currently, Galileusz, Private Science Teacher

- explaining complex mathematical, physical and informatical ideas in understable manner,
- obtaining good communication skills through conversations 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*.

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).

Other

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

Skills and qualifications

Programming languages

- **Python**
- Mathemathica
- C++
- Java (only basics)
- **R** (hundreds of hours experience in both)
- SAS (done few big projects in both)
- SQL (many hours formerly)

Other

- statistical inferrence & machine learning in Python and R languages including Python modules: `scipy`, `sklearn`, `pandas`, `tensorflow`, `keras` and corresponding **R** packages
- 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 based distributions)
- knowledge of various programming paradigms and algorithms
- ability to read and understand scientific texts on academic level
- ability to conduct own research & high dilligence (owing to studies)
- B2 English (experience working in multinational team + both of my theses were written in it)
- love for learning (never get bored and constantly learning new things from my various interests) & remarkable loyalty (I still buy smartphones of one niche brand)
- critical thinking (due to studies) & exceptional ability to understand different points of view (MBTI trait) & interdisciplinarity
- knowledge of some bioinformatics algorithms and specialized molecular modeling Python libraries
- experience with molecular modeling methods

Interests

Professional

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

Hobbies

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