

CONTACT

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- Poznań, Poland

SKILLS

- Data analysis
- Data visualisation
- Data cleaning and wrangling
- Analytical thinking
- Mathematical modelling
- Machine learning algorithms
- Public presentation skills
- Software development
- Statistics, linear algebra, calculus
- Quantum computing

TOOLS

- Python (i.a. pandas, scipy, numpy, matplotlib, seaborn, statsmodels, scikit-learn...)
- SQL
- Tableau
- Git / GitHub / GitLab
- Jira + Confluence
- Docker and Kubernetes

LANGUAGES

- Polish: native
- English: C1
- German: C1

MIRIAM KOSIK

PROFESSIONAL EXPERIENCE

Python Developer / Quantum Specialist

Quantum Blockchains, Remote | 07/2022 - now

- development of a REST API for Quantum Key Distribution according to ETSI004 and ETSI014 standards
- creation of a cryptography knowledge graph

Data Scientist

Molasses Fund, Poznań | 03/2022 - now (part-time)

- analysis of rum trading data (time-series and tabular data, regression, classification), data cleaning and wrangling
- providing insights to facilitate business decisions

Data Scientist

Poznan Supercomputing and Networking Center, Poznań | 02/2022 - 07/2022

- exploratory data analysis and visualisation of medical data
- data cleaning and wrangling
- feature extraction from time-series and tabular data
- prediction of medical events: classification on imbalanced data

Researcher / Developer (Physics)

Nicolaus Copernicus University, Toruń | 09/2018 - 09/2021

- design and implementation of a scientific Python toolbox for modelling graphene
- presentation of results at conferences and in the form of scientific publications
- **toolkit:** Python, Docker, Git, quantum physics, algebra

Data Scientist (Neuroscience)

Center for Modern Interdisciplinary Technologies, Toruń | 04/2017 - 09/2018

- analysis of real human brain fMRI data (DICOM files)
- analysis of the human brain with graph theory methods
- **toolkit:** Python, Docker, Git, graph theory

EDUCATION

Nicolaus Copernicus University, Toruń, Poland

2017 - 2022 **Ph.D. in Physics**

- thesis **awarded with a distinction**, title: *Tight-binding framework to study optical properties of graphene nanoantennas with adatoms*
- *authorship of 6 scientific publications*

2015 - 2017 **M.Sc. in Physics**

2012 - 2015 **B.Sc. in Physics**