# Aleksandra Dacko

I'm a current student in a master's programme in Methodology & Statistics for the Behavioural, Biomedical and Social Sciences at Utrecht University. I got experience in Data Analytics, programming and academic research. My master project is about Hidden Markov Model and Hidden Semi-Markov Model in a multilevel framework.

I admire working in a team as much as being independent, taking responsibility for my decisions, and solving problems. All of my technical and soft skills add up to a Data Scientist profile, and that's the job I'm aiming for.

## Contact detalis

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- github.com/a-dacko

## Skills

- R (Programming/ Machine Learning)
- Microsoft Power Query/ Excel
- Python (Scikit, pandas, plotly, keras)
- SQL
- Basic Power BI and Shiny Dashboard
- Jupiter Notebook and R markdown
- Base Neural Networks algorithms
- Hidden Markov Models
- Intensive longitudinal data analysis
- Statistical Consultancy
- Strong critical thinking

## Language

- Polish (native)
- English (level C1)
- Russian (level A1)
- German (level A1)

## Courses

- Learning Data Analytics  Part 1 and 2
- Data Fluency course
- pandas and SQL Essential Training
- Python for Data Visualization
- More on my LinkedIn profile!

## Interests

- Volleyball
- Data Visualization
- Cooking and Baking

## Volunteering

### Academic Volleyball team's coach

*Aberystwyth University, UK*
Jun 2022–Aug 2022

- Organizing activities for up to 40 people during training sessions.
- Coaching team during academic games.
- Teaching volleyball to players from beginner to advanced level.

## Experience

### Graduate Research Assistant

*Utrecht University, NL*

- **Feature Selection for data imputation**
  Oct 2022-Dec 2022
  Co-leader of a research project on feature selection for data imputation, under a Mice package research group (R package for data imputation).
  In particular, focused on high-dimensional data.
  https://github.com/a-dacko/feature.selector

- **Data Science courses review**
  Oct 2022-Dec 2022
  Creating an interactive Shiny Dashboard about data science courses provided by Utrecht University. The product is going to serve as a marketing tool for individuals considering this type of education.
  https://a-dacko.shinyapps.io/shiny_app/

- **Information Criterion, research and R package development**
  Jan 2022-Jun 2022
  - Creating and running research simulations on effect size measurements.
  - Contributing to the newest version of the restriktor R package by implementing additional features for users.
  https://github.com/a-dacko/restriktor

- **Hidden Markov Models, research and R package development**
  Nov 2021-Jun 2022
  - Contribution to the development of mHMMbayes R package (package allowing to estimate Multilevel Hidden Markov models).
  - Creating visualization functions.
  - Running test analysis to investigate the science field usage perspective.
  https://github.com/a-dacko/mHMMbayes

### Data Analyst Intern

*Verisk Kraków, PL*
Jun 2022–Aug 2022

- Working with insurance data.
- Preparation and automatization of one of the Customer Insights reports:
  - retrieve data from a database, using SQL,
  - data wrangling using the *pandas* library and automatization to Excel
  - creating data insights summary document.

## Education

### Utrecht University

2021–2023

*Master  of Science | Methodology & Statistics for the Behavioural, Biomedical and Social Sciences*

### Aberystwyth University

2018-2021

*Bachelor of Science | Pure Mathematics/Statistics: First Class Honours*