# Katarzyna Sornat

April 5, 1991

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## PROFILE

Experienced data scientist with statistical background. A motivated team player with great interpersonal acuity who can bridge the gap between stakeholders, business people and technical part of the team. During the professional career has been working in banking, fast fashion, airlines and retail sector working on different projects. Has exceptional presentation and storytelling skills. Thinks outside the box. Looking forward interesting projects within data-driven organizations.

## WORK EXPERIENCE

### Data Scientist, Data Science Team                         06.2019 - 11.2022

*IKEA Supply AG, Pratteln, Switzerland, Full-time*

hired as a third, the youngest data scientist in the new team, responsible for **end2end solution design** including: helping the stakeholders to define a goal and translate technical concepts into layman's terms; working on the requirements; targeting the right sources of data in our data, collaborate with business analysts as well as solution architects; **designing ETL to transfer the data** from the data warehouse into Azure Blob Storage [Apache Sqoop, Airflow, Pyspark, Databricks, Azure Data Factory]; **building interactive applications to present the results and conduct hands-on analysis** during COVID period [Docker, Azure Container Registry, R Shiny, Mlflow REST endpoint], **detecting anomalies** in supply plan system using Convolutional Autoencoders [Keras], **news forecasting - searching reference items** based on their images, **wood damages detection** based on pictures, on-boarding and mentoring newcomers, interviewing candidates for a Data Scientist position in the team.

### Data Scientist, Business Analysts Team                    11.2018 - 05.2019

*Tally Weijl AG, Basel, Switzerland, Full-time*

one and only Data Scientist in Tally-Weijl, responsible for **explanation and showing Data Science needs** in the company—presentation for CFO; leading all Data Science projects;, maintenance and documentation SQL database for Data Science needs; **preparing requirements** regarding data migration, creating master data tables and aggregates; automatic application to gather daily weather forecast using Web scraping methods [Python, R Shiny, parallel computing]; gathering Twitter data from the competitors' walls [Python]; automation of excisting processes, collaboration with CRM [**campaign analysis, basket analysis**, to **target specific focus groups with the offer, A/B Testing**, interactive reports in Rmarkdown/flexdashboard]; preparation and conducting of a training for Business Analysts Team [SQL, R].

### Data Scientist, Business Intelligence Team                06.2017 - 04.2018

*Ryanair (Travel Labs Poland), Wrocław, Poland, Full-time*

**customer segmentation** (creating PoC from the scratch, no business requirements defined, gathering and preparing data using Big Data technology [Hadoop, Impala, Hive], modeling [DBScan, K-Means, dimensionality reduction, Python, R, Pyspark, sparklyr], **Online Travel Agencies detection** (own idea, gathering the data from the external source [Web Scraping, Text Mining on HTMLs, Topic Modeling, Python], one-page report for CTO), passenger deduplication (by using connected components algorithm [Scala]), other softwares: Jira, Confluence, Git.

**Statistician, CRM Team** <span style="background:black;color:white">03.2016 - 05.2017</span>

*Eurobank SA, Wrocław, Poland, Full-time*

    **building a model providing for taking a loan** (cooperation with business analysts, gathering/preparing data from database [SQL], building and validating a model [R, logistic regression, decision trees, unbalanced data, A/B testing] **classification of transactions on clients' savings accounts**, validation of a churn model created by an external company (explaining how the model works, checking mistakes/ambiguities), automatic application to monitor excising scoring models (developing and improving excising methodology [VBA]).

## EDUCATION

**MSc in Mathematics, Applied Statistics and Probability** <span style="background:black;color:white">10.2013 - 06.2015</span>

*University of Wrocław*

    Topic of diploma dissertation: Accelerometric data modeling using mixtures—awarded in Polish Mathematical Society for the best master's thesis in probability theory and statistics applications.

**BSc in Mathematics, Applied Statistics and Probability** <span style="background:black;color:white">10.2013 - 06.2015</span>

*University of Wrocław*

## ADDITIONAL SKILLS

Languages [Polish - native, English - very good command, German - basic communication skills], SQL, R [e.g. Shiny, Rmarkdown, Flexdashboard, ggplot, plotly, dplyr, glm, forecast], Python [e.g. Pandas, Numpy, Beautiful Soup, Keras, Sklearn], Big Data [Azure, Databricks, Mlflow, Hadoop, Pyspark, basics in Scala], Code versioning [Git], Agile [Jira, Confluence]

## ACHIEVEMENTS

Competitions

- Poster on a Conference "Women in Data Science", Zurich 2021
- 3rd place in "text matching hackathon" http://whyr.pl/foundation/2021/hackathon/
- Award in Polish Mathematical Society for the best master's thesis in probability theory and statistics applications (2016)
- 2nd award in Kruk Analytics Challenge: a team competition with a goal to design, implement and apply decision-making tools for selecting most profitable vindication process case
- First place in a competition to design a ring with the diamond: https://www.michelson.pl/pierscionki-zareczynowe/pierscionek-z-brylantem-01-ct-w-przecudnej-oprawie-z-bialego-zlota-m-p-585b-004-010

Professional membership

- Vice President of Students Association of Probability and Statistics (years 2013-2015)
- Member of Wroclaw R Community (STWUR, http://www.stwur.pl/)
- Leading R-programming course for Students

Freelance projects

- Customer clickstream analysis
- Building a tool for children's fairytale automatic generation (including market research, idea response, technical setup and deployment)