

Parsa Mohammadian

Professional Experience

2021–present

Biostatistician & Data Scientist, Brandenburg Medical School Theodor Fontane (MHB), Neuruppin, Germany.

- Analysis of clinical studies of breast cancer
- Statistical support of clinicians doing research in oncology, cardiovascular medicine and mental health and corresponding health services
- Teaching medical students

Feb–Sep 2020

Statistical Analyst, BASF Digital Farming, Cologne, Germany.

- Accompanied project of agricultural yield experiments from data cleaning to advanced statistical modelling
- Vast cleaning and preprocessing including geo-spatial considerations
- Performance comparison of Experimental Designs (RBCD) and Statistical Models (Linear Mixed Models, Generalized Additive Models)
- Establish and maintain collaborative relationships with agriculture experts, project team members and management across divisions to plan and implement process improvements
- Presentation of results using ggplot2 for visualization, RMarkdown for reporting
- Cost & Profit calculations for agricultural strategies

2017–2018 Teaching Assistant, University of Hildesheim, Germany.

Guiding Students to

- Fundamental Data Science know-how, which provides a start-level proficiency for tackling data-driven business problems
- Predictive Models such as Regression and Classification (e.g. Random Forest)
- Dimension Reduction Techniques (tSNE, PCA, FA) for Visualization and Feature Extraction aspects
- Time-series (Classical: ARIMA, Deep Learning based: RNN)

2015–2017 Statistician, Melal Bank, Tehran, Iran.

- Developing Statistical Methods such as Classification for classifying the branches of the bank to make a better banking service for costumers of each zone.
- Data Analysis and Data Visualization

2012–2014 Statistical Consultant, Shahid Beheshti University, Tehran, Iran.

- Supporting medical, psychological and Marketing graduate students from study design and planning to final statistical results in research especially theses and dissertations.

EDUCATION

2016-2020 M.Sc. in Data Analytics, University of Hildesheim, Germany, Current GPA: 2.5.
Machine Learning, Modern Optimization Technique, Advance Marketing

2009–2011 M.Sc. in Mathematical Statistics, Amirkabir University of Technology, Tehran,
Iran, GPA: 1.4.
Data Mining, Clustering, Mixture Distributions

2005–2009 B.Sc. in Statistics, Shahid Beheshti University, Tehran, Iran, GPA: 2.4.
Regression, Time-Series, GEE, GLM, Design of Experiments, sampling techniques

Languages

Persian - Mother Tongue

English - Fluent

German - Intermediate

TEACHING COURSES

2017-2018 Teaching Assistant, Business Analysis, ISMML, University of Hildesheim.

2009-2013 Teaching Assistant, Department of Statistics, Shahid Beheshti University.

2013 Advance Statistical Inference & Sampling Methods.

2012-Fall Primary Statistics and Probability.

2011-Summer Time-series with R.

2009-2010 Mathematical Statistics I.

Awards

2009 Ranked top <1% (31 out of 5000) in Iran National University Entrance Exam for Master
of Science in Statistics