Rianne Schouten – Resume

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Research

Feb 2020 - Present
Eindhoven University of Technology, Data Mining Group, Section Information Systems
PhD Candidate

I study the Exceptional Model Mining framework. We work on developing solutions for problems with heterogeneity and dependent data points. I am supervised by dr. Wouter Duivesteijn and prof. dr. Mykola Pechenizkiy.

June 2017 - May 2019
University of Utrecht, Department of Methodology and Statistics
Researcher in the field of Missing Data

My research focused on the evaluation of methods dealing with missing data. My publications can be found on RianneSchouten.github.io. I was supervised by dr. Gerko Vink and prof. dr. Stef van Buuren.

Nov 2016 - Dec 2016
Columbia University in the City of New York
Staff Associate of Prof. Andrew Gelman

As part of the STAN development team, I assisted dr. Gerko Vink and Prof. dr. Andrew Gelman with their research and software development.

Sep 2015 - Dec 2015
SRON, Dutch Institute of Space Research
Internship, Grade: 9.0

The extensive simulation study I performed to test the technique of Principal Component Analysis on Fe55 X-ray Pulses resulted in a SPIE conference paper.

Employment

Feb 2020 - Present
Eindhoven University of Technology, Data Mining Group, Section Information Systems
PhD Candidate

See above under Research

March 2018 - Jan 2020
Samen Veilig Midden-Nederland
Developer Data & Analytics

It was my job to structure and standardize the analyses of sensitive and highly classified data. On the one hand I took an active part in writing the SQL queries and performing the calculations in R, Logi Analytics and Power BI. On the other hand, I oversaw the system requirements and allocated work to other developers and stakeholders.

April 2017 - Feb 2018
DPA Professionals - Excellence Programme for Data Science
Missing Data Specialist / Data Scientist

Senior Data Scientists from Bigdata Republic taught me about Linux, Virtual Machines, Machine Learning, Feature Engineering, Recommendation Systems, Neural Networks, Kaggle, Hadoop, and much more.

May 2015 -	Summerschool Utrecht
April 2017	*Teaching Assistant*

I taught in the following courses: Survey Research: Design, Implementation and Data Processing - Survey Research: Statistical Analysis and Estimation - Introduction to Research Methods and Statistics for Social Scientists'. My work was appreciated as follows by Prof. Edith de Leeuw:

Rianne was a first class assistant at our summer school courses. Not only was all material prepared extremely punctual and without errors, she also got very high student evaluations. I can wholeheartedly recommend Rianne!

Activities

Jan 2016 -	Presentations and invited talks
Present	*Missing data specialist*

Once in a while, I present about missing data problems at conferences or meetups. For a list of all presentations and workshops, see my GitHub page.

Jan 2014 -	Statistical Consultant, Medical Research
Present	*Advisor, co-author*

Many bachelor's, master's and doctoral students have difficulties with performing their statistical analyses. I function as an adviser or I cooperate in projects. Because of my medical background, I especially enjoy to use statistics in the field of health care.

Jan 2016 -	Thesis period
May 2017	*Software development in R*

During my thesis, I co-developed a procedure to generate mising data in complete datasets. I implemented the procedure in R-function ampute and it is now part of R-package MICE. Worldwide, people are using 'ampute' and I am still regularly advising and assisting researchers with their analysis problems.

Software skills

R, and development in R	> 1500 hours
SQL	> 1000 hours
SPSS	> 600 hours
Logi Analytics	> 500 hours
Python	> 500 hours
Power BI	> 150 hours
Javascript	> 50 hours
Shiny, Bokeh, Highcharts	> 50 hours
OpenBugs, RJags	> 40 hours
HLM, MPlus	> 40 hours

Education

2015 - 2017	Methodology and Statistics for the Behavioral, Biomedical and Social Sciences
	Research Master, GPA: 4.0

This research master's programme focuses on the methodological and statistical aspects of social and biomedical research. I especially enjoyed to delve into the mathematical background of analyses and exploring how to use computer techniques to gain the information we desire.

2013 - 2014   Several preparatory programmes

2009 - 2012   Medicine - University of Utrecht
Bachelor, GPA: 3.24

2003 - 2009   Pre-university Education - CSG Reggesteyn Nijverdal
Average grade: 8.3

Competencies

- **Learning ability**
- **Analytical**
- **Perseverance**
- **Courage**
- **Result-orientedness**
- **Independence**
- **Honesty**
- **Problem solving**