

Rianne M. Schouten – Resume

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Research

An overview of my publications can be found at RianneSchouten.github.io.

Feb 2020 - Present **Data Mining Group, Data & AI Cluster, Eindhoven University of Technology**
PhD Candidate

I study the Exceptional Model Mining framework; a local pattern mining technique seeking subgroups in a population that somehow behave exceptionally. Specifically, we work on developing solutions for EMM with hierarchical data. My promotor and co-promotor are [prof. Mykola Pechenizkiy](#) and [dr. Wouter Duivesteijn](#).

Expected to defend in Dec. 2024

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

My research focused on the evaluation of missing data methods including the generation of synthetic data, generation of missing values and experimental designs. My supervisors were [dr. Gerko Vink](#) and [prof. 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. Andrew Gelman with their research and software development.

Teaching

Feb 2020 - Present **Data Mining Group, Data & AI Cluster, Eindhoven University of Technology**
PhD-TA

I am teaching in the MSc course *Research Topics in Data Mining*, where we guide MSc students through an entire research cycle, starting from finding a research gap to developing an innovative method, designing an experiment and presenting findings in a publishable manuscript. Several projects have resulted in publications at, among others, IDA and DS.

In both 21/22 and 22/23 I received an [award for excellent teaching](#).

Feb 2020 - Present **Data Mining Group, Data & AI Cluster, Eindhoven University of Technology**
Supervising MSc thesis students

About 6 so far.

May 2015 - April 2017 **Summer school Utrecht**
Teaching Assistant

I have taught in two summer school courses, both at an advanced MSc level: Survey Research: Design, Implementation and Data Processing and Survey Research: Statistical Analysis and Estimation. 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!”

Other Employment

March 2018 - Samen Veilig Midden-Nederland

Jan 2020 *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 - DPA Professionals - Excellence Programme for Data Science

Feb 2018 *Missing Data Specialist / Data Scientist*

Obtained a broad introduction to everything related to applying data analysis methods in industry, including challenges in data engineering.

Education

2015 - 2017 Methodology and Statistics for the Behavioral, Biomedical and Social Sciences

Research MSc, GPA: 4.0

This research master's programme focuses on the methodological and statistical aspects of social and biomedical research. I especially enjoyed delving into the mathematical background of analysis techniques.

Jan 2016 - MSc Thesis period

May 2017 *Software development in R*

During my thesis, we developed a procedure to generate missing 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 missing data and amputation problems.

Sep 2015 - SRON, Dutch Institute of Space Research

Dec 2015 *Internship, Grade: 9.0*

At SRON, I applied Principal Component Analysis in a Physics context and designed an extensive simulation study. The work resulted in a SPIE conference paper.

Competencies

Ability to learn – Analytical skills – Perseverance – Assertiveness – Results-oriented way of working – Independence – Honesty – Problem solving – Discipline