

# Rianne Schouten

## Data scientist / Missing data specialist

### PERSONALIA



Rianne Schouten



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11-5-1991



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### COMMERCIAL CONTACT



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### SKILL MATRIX

Learning ability	● ● ● ● ●
Perseverance	● ● ● ● ●
Analytical	● ● ● ● ●
Courage	● ● ● ● ●
Result-orientedness	● ● ● ● ●
Independence	● ● ● ● ●

### EDUCATION

#### Traineeship

2017 Excellence Program for Data Science in cooperation with Big Data Republic

#### Education

2017 Research Master Methodology and Statistics for the Behavioural, Biomedical and Social Sciences, GPA: 4.0

### BRANCHES

Health-care  
Energy  
Supply chain  
Government  
Telecom  
Insurance  
Education

### PROFILE

When you get to know me, you will recognize an enthusiastic and motivated person who is always eager to learn. I have an open and direct personality, and some self-deprecating humor. First and foremost, I intent to deliver work with a more than good quality. As a data scientist, my goal is to add business value by applying my skills and knowledge about data, statistics, machine learning techniques and programming languages. In addition to my work as data scientist, I do research in the field of missing data.

### SUMMARY WORK EXPERIENCE

#### Statistical consultant

**January 2014 – May 2017**

Many bachelor's, master's and doctoral students have difficulties with performing their statistical analyses. I functioned as an adviser, a teacher, a guide or as a co-author for many students.

#### Teaching assistant at Utrecht University

**May 2015 - September 2016**

As a teaching assistant, I take care of the practical organization of all sorts of courses. In addition, I assist during lab meetings, make sure students understand the statistical analyses and they are able to perform them correctly.

### SUMMARY RESEARCH EXPERIENCE

#### PhD Candidate Missing Data Research at Utrecht University

**January 2016 – Now**

My research focuses on the evaluation of methods dealing with missing data. How can we be sure a certain missing data methods works well? And what method is best for a given missing data situation?

#### Staff Associate at Columbia University in the City of New York

**November 2016 - December 2016**

My work at Columbia University was quite divers, ranging from reviewing literature to developing R-code and running simulations.

#### Intern at Dutch Institute for Space Research (SRON)

**September 2015 – December 2015**

By applying Principal Component Analysis, I assisted scientists at SRON to gain insights into the performance of the materials they are developing.

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## MORE ON EDUCATION

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### Traineeship

### Excellence Program for Data Science

#### Period:

April 2017 – January 2018

Goal of the program is to learn and keep up to date with the latest techniques and expanding my knowledge in the field of data science. Among others, I learn and read about and practice with:

- Core IT skills: Asana, Python, Linux basics, Code versioning & sharing in GIT, Virtual machines, SQL
- Core data science skills: Pipeline, Statistics, Clustering, Feature engineering, Feature space visualisation
- Applying data science on use cases: Hands on categorization, clustering, regression, Kaggle
- Advanced data science skills: Ensemble, Neural networks, Evolutionary algorithms

In addition, I am trained in soft skills such as consulting skills, personal development and time and energy regulation.

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## MORE ON WORK EXPERIENCE

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### Teaching assistant

### Utrecht University

#### Period:

May 2015 – September 2016

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'

A recommendation by Professor Edith the 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!*

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## MORE ON RESEARCH EXPERIENCE

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### PhD Candidate

### Utrecht University

#### Period:

January 2016 - Now

The occurrence of missing data is a ubiquitous problem in all sorts of data analysis. Therefore, researchers develop missing data methodologies such as (multiple) imputation techniques. My research focuses on the evaluation of these missing data methods.

First, I developed a multivariate amputation procedure, which I implemented in statistical software language R. Amputation function 'ampute' is available in R-package **\*\*mice\*\***, and enables the generation of missing values in multiple variables, based on the values of multiple variables, with any desired missingness percentage and much more.

With the availability of 'ampute', it is now possible to perform extensive simulation studies to test the performance of missing data methods. I especially focus on how to use missing data methods in the data science framework and what to do with nonignorable missing data problems.

A research proposal, my publications, and an overview of my specific research activities can be found on [rianneschouten.github.io](https://rianneschouten.github.io). I keep track of all the R and Python functions I develop on my [github](#) page.

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## SOFTWARE SKILLS

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R, Rmarkdown, Package Development	Senior	2014 – 2017
Python	Medior	2015 – 2017
Javascript	Junior	2017 – 2017
SPSS	Senior	2012 – 2017
LateX	Senior	2014 – 2017
Shiny, Bokeh, Highcharts	Junior	2017 – 2017
HLM, Mplus, OpenBugs	Junior	2014 - 2016

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## LANGUAGES

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Dutch	Mother language
English	Academic level