

Thomas Huijskens

✉ thomas_huijskens@hotmail.com

in [thomashuijskens](#)

📍 [thuijskens](#)

Education

October 2014 - **MSc in Applied Statistics**, *University of Oxford*.

October 2015 Graduated with distinction.

Master thesis Based on a gigabyte-scale data set of taxi trajectories, I developed a machine learning pipeline that predicts the total travel time of a taxi trip, when the destination is unknown.

Selected courses:

- Machine learning (data compression, clustering, neural networks, random forests, support vector machines, model ensembles).
- Markov chain Monte Carlo methods (Gibbs sampling, Metropolis-Hastings sampling, reversible jump and sequential Monte Carlo methods).

September 2010 - **BSc in Applied Mathematics**, *Delft University of Technology*, GPA: 8.4/10.

July 2013 Graduated with distinction.

Bachelor thesis I developed and implemented numerical methods that solve backward stochastic differential equations. I analysed the performance and complexity of the methods on a number of toy problems from mathematical finance.

September 2012 - **Semester abroad**, *ETH Zürich, Department of Mathematics*, GPA: 8.6/10.

February 2013 As part of my BSc studies, I studied abroad at ETH Zürich. I completed a selection of courses that were part of the MSc in Statistics, and the MSc in Quantitative Finance at ETH Zürich.

Experience

November 2015 - **Data scientist**, *Tesco PLC*, London.

Present As a Data Scientist in the Clubcard Analytics team I build out data products and do product deep-dive research for the other teams within Clubcard, based on terabytes of customer data. I have been part of a number of projects, including but not limited to:

- Building a forecasting pipeline that estimates baseline sales figures for 500,000 different products as part of a bigger model for promotion profitability.
- Enabling better customer targeting for CRM email campaigns by building out customer targeting optimisation models.

September 2013 - **Data analyst (part-time)**, *Mlcompany B.V.*, Amsterdam.

September 2014 Mlcompany is a commercial analytics consultancy that helps companies grow by specialised data analysis. I supported (senior) consultants with analyses based on complex data sets. My work involved data mining and analysis, visualising results and statistical modeling on gigabyte-scale data sets. My responsibilities included:

- Developing Bayesian regression models to identify the effect of insurance pricing on different customer segments and to show the potential result of a new pricing structure.
- Developing time series models for the sales data (480 million entries) of a large retail firm to extract business insights on turnover and customer behavior during a promotional period.

Skills and additional information

Programming Scala, Apache Spark, Python (numpy, scikit-learn, pandas), R (ggplot2, dplyr, tidyr), Hive, Impala, Hadoop, Bash, Git.

Citizenship Dutch and U.S. citizenship.

Publications

T.P. Huijskens, M.J. Ruijter, C.W. Oosterlee, Efficient numerical Fourier methods for coupled forward-backward SDEs, *Journal of Computational and Applied Mathematics* 296 (2016): 593-612.