



CAREER PROFILE

Data scientist with a versatile background and a strong interest in social and behavioural sciences, finance and artificial intelligence. Experience with project management, data dashboards, machine learning and academic writing. Currently in the last year of my MSc. Following courses in mathematical statistics, multivariate statistics, data mining and pattern recognition.



WORK EXPERIENCE

Data Scientist

Oct 2018 - December 2019

Leiden University Center for Innovation, The Hague

We support Leiden University and its partners to make positive social impact using data and artificial intelligence. We do so by piloting data-driven solutions to societal challenges, while taking into account the human aspects of data such as privacy, transparency and fairness.

Research intern

Jun 2019 - Aug 2019

Cortical.io, Vienna

Part of academic team investigating the use of Cortical's 'Semantic Folding' in predicting stock and commodity price volatility using close to one billion news articles going back to 2016. Responsibilities include:

- Building and maintaining infrastructure using Python, PostgreSQL, Docker and Google Cloud Services to process historical and current news articles using Cortical's semantic folding algorithm.
- Aid in collecting and preprocessing training data to create custom models using Cortical's semantic folding algorithm.
- Design and implement downstream tests to assess the usefulness of custom models, using e.g. monte carlo simulations, clustering methods and convolutional/recurrent neural networks.
- Provide support to other researchers in terms of statistical expertise and by creating custom docker applications that simplify the access to the custom models.

Research intern

Jun 2018 - Aug 2018

Cortical.io, Vienna

Investigated the application of Cortical.io's core technologies to finance & investing. Focused on:

- Gaining an in-depth understanding of Cortical.io's core technology and its application to large, textual datasets.
- Develop methods to process, store and query news articles using Cortical.io's semantic folding technology
- Use these methods to develop a prototype for visualizing and downloading historical and live data representing the nature and quantity of news relevant to user-selected stocks, commodities and portfolios.
- Serving as liaison between the research team led by Prof. David Stolin and Cortical.

Data Analyst



Jasper Ginn

Data Scientist / Student



Download resume as pdf



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JasperHG90



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EDUCATION

MSc, Methodology & Statistics

Utrecht University
2018 - present

BSc, Liberal Arts & Sciences

Leiden University
2011 - 2014

PROFESSIONAL DEVELOPMENT

Fundamentals of Reinforcement Learning

Coursera (Univ. of Alberta)
December 2019 - present

Practical Time Series Analysis

Coursera (Univ. of New York)
August 2019 - present

Deep Learning Specialization

Coursera (deeplearning.ai)
August 2018 - January 2019

UT.5.05x: LAFF: Linear Algebra - Foundations to Frontiers

edX (University of Texas)
May 2018

DAT201x: Querying with Transact-SQL

edX (Microsoft)
Apr. 2017

Machine Learning

Coursera (Stanford University)
Nov. 2016

Mar 2015 - Feb 2017

Leiden University Center for Innovation, The Hague

The Center for Innovation facilitates the development of Massive Open Online Courses (MOOCs) at Leiden University. I was responsible for retrieving, storing and analysing MOOC data with the aim of improving courses and providing feedback to content creators & academics. Co-published several academic articles with researchers and published open-source tools to process and analyze MOOC data.

Assistant Strategic Analyst (Internship Program)

Sep 2014 - Feb 2015

The Hague Centre for Strategic Studies, The Hague

The HCSS helps governments, non-governmental organisations and the private sector to anticipate the challenges of the future with practical policy solutions and advice. While at the HCSS, I worked on several projects in areas of Big Data, security studies, and international development. Further set up an event-monitoring server that scraped and processed roughly 20.000-50.000 news articles each day, and created a package in R to analyze assertive behaviour among 'great powers' such as Russia, the United States and China.



PROJECTS

Phonorm - Phonetic text normalization using Recurrent Neural Networks.

NNet - Implementation of a multi-layered vanilla neural network from scratch in Julia.

blm - R library that contains an implementation of bayesian linear regression in R and Julia, as well as many other core features of bayesian analysis such as posterior predictive checks, multilevel bayesian models, MCMC sampling and model evaluation.

pararius - Docker application that scrapes the website pararius every couple of minutes to check for new apartment listings. Written in R and Python.

qualtRics - Toolkit to retrieve Qualtrics surveys using the API. Original author and creator of the library, which is now managed by Julia Silge.

FinTxt - Back-end and front-end infrastructure for analyzing the stock price impact of news articles

sfutils - R library that ports and extends Cortical's semantic fingerprinting API to R.



PUBLICATIONS

Evaluating retrieval practice in a MOOC: how writing and reading summaries of videos affects student learning.

van der Zee, Tim, et al.

Proceedings of the 8th International Conference on Learning Analytics and Knowledge. ACM, 2018.

qualtRics: retrieve survey data using the Qualtrics API

Ginn, Jasper

Journal of Open Source Software, 3(24), 690,
<https://doi.org/10.21105/joss.00690> (2018)

Machine Learning With Big Data

Coursera (UC San Diego)
Jun. 2016

Introduction to Big Data Analytics

Coursera (UC San Diego)
Apr. 2016

Hadoop Platform and Application Framework

Coursera (UC San Diego)
Nov. 2015

LANGUAGES

English (Native)

Dutch (Native)

German (Elementary)

Learning about Learning at Scale: Methodological Challenges and Recommendations

Van der Sluis, Frans, Tim Van der Zee, and Jasper Ginn

In Proceedings of the Fourth (2017) ACM Conference on Learning@ Scale. ACM, 2017.

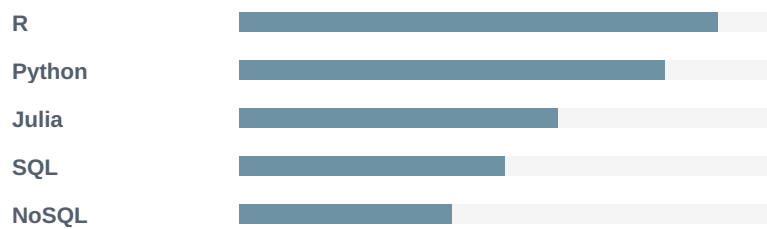
Explaining Student Behavior at Scale: The influence of video complexity on student dwelling time

Van der Sluis, F., Ginn, J., & Van der Zee, T.

In Proceedings of the Third (2016) ACM Conference on Learning@ Scale (pp. 51-60). ACM. 2016



SKILLS & PROFICIENCY



OTHER: Shiny, Markdown, Plumber, Docker, Pandas, Keras, Numpy, Pytorch, Linux, Git, Spark, Jekyll, Hugo, MLM, Mplus, SPSS