Paul **Stroet**

RESEARCH MASTER STUDENT · BUSINESS DATA SCIENCE

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"Be the change that you want to see in the world."

Education

Business Data Science (joint degree: UvA, EUR, VU)   *Amsterdam, Netherlands*

MPHIL IN BUSINESS DATA SCIENCE   *Sep. 2019 - Aug. 2021*

- Thesis (in progress): Enhancing the Outlier Detection Process. Supervised by prof. P.H. Franses (Econometrics Institute) and dr. Raviv (Business Data Science). Courses in among others Deep Learning, Simulation Analysis & Optimization, various Econometrics courses (eg Bayesian Econometrics), Prediction & Forecasting, Data-driven Innovation Strategy, and Decision Theory for Business.

Erasmus University Rotterdam   *Rotterdam, Netherlands*

MSc IN DATA SCIENCE AND MARKETING ANALYTICS   *Sep. 2019 - Aug 2021*

- Courses in among others Text Analytics, Data Science for Marketing Analytics, Case Studies in Data Science and Programming.

MITx   *Online*

MICROMASTERS PROGRAM IN STATISTICS AND DATA SCIENCE   *May 2020 - Dec 2020*

- The MITx MicroMasters program consists of courses covering topics ranging from probability and fundamentals of statistics to machine learning, deep learning and reinforcement learning. More information about the program available here.

deeplearning.ai   *Online*

DEEP LEARNING SPECIALIZATION   *May 2020 - Aug 2020*

- Specialization courses in Deep Learning offered by deeplearning.ai on Coursera. More information about the program available here.

Nanyang Technological University   *Singapore, Singapore*

EXCHANGE PROGRAM   *Jan. 2019 - May 2019*

- Courses in Data and Computer Science, and one in Chinese Language Proficiency.

University of Amsterdam   *Amsterdam, Netherlands*

BSc IN ECONOMICS   *Sep. 2016 - Aug. 2019*

- Thesis: Does the flexible price monetary model (FPMM) attain empirically validity after a rise in capital mobility? An empirical examination in which the performance of FPMM is evaluated by comparing it to a random walk model. Courses in among others Statistics, Mathematics, Econometrics, Micro- and Macroeconomics and International Trade and Investment.

Teaching

Deep Learning   *Amsterdam, Netherlands*

TEACHING ASSISTANT, BUSINESS DATA SCIENCE   *Jul. 2020 - now*

- Teaching Assistant to prof. Raviv in the graduate-level course Deep Learning, during block 4 in the academic year 2020-2021, and the Summer School 2020 and 2021. I gave computer practicals and demonstrated implementations for RNNs (including GRUs, LSTMs, bidirectional RNNs), CNNs (including residual learning, network in networks and inception networks), VAEs, GANs, and advanced deep learning architectures such as densely connected convolutional networks, AdaNet and deep forests. Additionally, designed an interactive online learning platform, with functionality for online quizzes (architecture and content) and a 'play corner', including a text generator on the base of RNNs, a digit recognition tool on the base of CNNs, and a landscape drawer on the base of GANs.

Principles of Economics & Business   *Amsterdam, Netherlands*

TEACHING ASSISTANT, UNIVERSITY OF AMSTERDAM   *Sep. 2017 - Oct. 2017*

- Teaching Assistant to prof. Schinkel in the undergraduate-level course Principles of Economics & Business, during block 1 in academic year 2017-2018. The course was an introduction to the elementary notions in economics, banking and business. I gave tutorials to 4 classes of 25 to 35 students. These tutorials started with a theoretical recap of the lecture and then a discussion of the relevant papers from which the core economic ideas evolved. For example, in week 1 the basic supply and demand model was discussed, so Adam Smith's "The Wealth of Nations" and "The Theory of Moral Sentiments" was covered. Tutorials were concluded with a problem solving part.

Work Experience

Center for Nonlinear Dynamics in Economics & Finance (CeNDEF) *Amsterdam, Netherlands*
RESEARCH ASSISTANT *Feb. 2018 - Jun. 2018*

- Assisted in several experiments conducted in the CREED-lab. A selection of researches in which I assisted include:

    Myrna Hennequin and Cars Hommes: Managing Bubbles in Experimental Asset Markets with Monetary Policy - Examined how agents learn from experiences in a learning to forecast experiment with two stages. In stage one, subjects are paired with agents which have a predetermined prediction, which either showed a stable or a bubbly market. In stage two, markets are formed with subjects who have the same or mixed experiences, and consequently it is examined how the experience affects the market dynamics.

    Jasmina Arifovic, Cars Hommes and Isabelle Salle: Learning to believe in Simple Equilibriain a Complex OLG Economy, evidence from the lab - By applying on the experimental evidence as an equilibrium selection device (steady state, periodic and chaotic equilibria) in the overlapping-generations model, it is investigated on which outcomes subjects most likely coordinate. Designs used are learning to forecast and learning to optimize, in which, respectively, subjects predict the future good price and make a savings decision.

    Myrna Hennequin, Cars Hommes and Eva Levelt: Planar Learning to Forecast Market Games - Concerned how aggregate market behaviour in a two dimensional model depends on the eigenvalues of the underlying expectation feedback system. This was examined by running planar learning to forecast experiments with different eigenvalues, to seek how the results about the role of feedback strength in one dimensional learning to forecast experiments are generalized. Furthermore the heuristic switching model is tested for the one dimensional results, but in a new setting.

De Bijenkorf, Emporio Armani, Burberry *Amsterdam, Netherlands*
SALES ASSOCIATE *Aug. 2015 - Jun. 2018*

- Side-job during my undergraduate studies working in various roles as a Sales Associate for De Bijenkorf and Emporio Armani, later as a so-called Premium Service Ambassador for the sports department of De Bijenkorf. Then, represented a similar role for Burberry in the PC Hooftstraat.

Extracurricular Activity

Universidad Pontificia Bolivariana *Medellín, Colombia*
TEACHING ASSISTANT *Jul. 2018 - Aug. 2018*

- Provided English classes at local elementary schools in the poor regions of Medellín to improve the learning process in language education in Colombia. Took two Spanish modules at the College of Humanities (UvA) to acquaint myself with the Spanish language during block 4 & 5 in academic year 2017-2018.

Honours Study Association Extensus *Amsterdam, Netherlands*
HEAD OF TREASURY, GALA COMMITTEE 2018 *Nov. 2017 - Jan. 2018*

- Responsible for the financial planning and budgeting: funding, fundraising and ticket sales.

University of Amsterdam *Amsterdam, Netherlands*
STUDENT AMBASSADOR *Sep. 2018 - Jan. 2019*

- Activities included giving tutorials for 'proefstuderen', visiting career choice days and secondary schools and present the BSc Economics and Business on Bachelordays, etc. Testimonial available here.

Honors & Awards

SCHOLARSHIPS

2019-2021	**Business Data Science Scholarship**, Recipient of a performance-based scholarship, covering tuition fees and health insurance.	*Amsterdam, Netherlands*
2019	**Amsterdam University Fund Scholarship**, Recipient of the AUF-scholarship given to promising students at UvA.	*Amsterdam, Netherlands*

OTHER

2020	**Best Case-study**, Awarded a 'Certificate of Excellence' for the best team performance as part of the seminar Case Studies in Data Science, a group project to support data driven decision making at Coolblue. Final results were presented at Coolblue headquarters in Rotterdam on February 28, 2020.	*Rotterdam, Netherlands*
2018	**Honours Program**, Completed the UvA honours program in my second academic year.	*Amsterdam, Netherlands*
2016-2018	**In-store Awards**, Received various in-store awards during my time as a sales associate, including several times employee of the month and an Inspiration Award, De Bijenkorf's semi-annually award for the three best performing employees over the course of 6 months.	*Amsterdam, Netherlands*