

MARIJN A. BOLHUIS

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Summary. PhD economist with over 7 years of experience in applied economic research, with specialized knowledge of international macroeconomics and machine learning forecasting. Comfortable working with a wide array of statistical software, large firm-level data sets and drafting papers in an international research environment.

RELEVANT WORK EXPERIENCE

International Monetary Fund

PhD FIP - Machine Learning Forecasting

Washington D.C.

Jun '19-Sep '19

- Developed (1) the IMF's first country-level machine learning framework to perform monthly now- and forecasts of macroeconomic variables and (2) a new machine learning panel data forecasting method.
- Published two working papers in the IMF working paper series.
- Active member of Turkey team in internal and external meetings; presented in three research seminars.
- Responsible for reviewing ongoing machine learning research inside the IMF.

University of Oxford

Recognised Research PhD in Economics

Oxford

Oct '18-Dec '18

- Research visit at the Centre for Study of African Economies, in collaboration with Prof. Doug Gollin.

University of Toronto

PhD Researcher and Research Assistant with Dr. D. Restuccia, Dr. M. Gonzalez-Navarro, Dr. M. Celik, Dr. S. Ozkan, Dr. M. Duarte, Dr. B. Kuruscu

Toronto

Aug '16-current

- Over four years of experience studying the role of financial and production networks in economic growth.
- Responsible for data analysis, collection, literature reviews, developing theoretical and econometric models, drafting papers and presentations for projects on market power in the US and land reform in Mexico.
- Presented academic research at several international conferences and seminars, incl. NU and U. of Oxford.

Utrecht University

Research Assistant with Dr. J. L. Van Zanden, Dr. M. Sanders

Utrecht

Dec '14-Aug '16

- Active contributor to projects on the development of new physical capital data.
- Responsible for data analysis, collection, literature reviews, developing econometric models.

Morgen

Researcher and Treasurer

Utrecht

Sep '11-Jul '14

- Researched and wrote a yearly report assessing the sustainability of Dutch higher education.
- Responsible for raising funds, internal finances and recruiting staff of an NGO.

RELEVANT EDUCATION

University of Toronto

PhD in Economics; Fields: Macroeconomics, Machine Learning Forecasting (GPA 4.0/4.0)

Toronto

Aug '16-2021

- With distinction in macroeconomic theory; winner of seven awards incl. 4-year Ontario Trillium Scholarship.
- Founder and co-organizer of weekly PhD seminar series.

University of Groningen | University of Toronto

Visiting Graduate Student in Economics (GPA 4.0/4.0)

Groningen | Toronto

Sep '15-Jul '16

- Completed coursework in macroeconomics and econometrics; winner of the K. F. Heinfonds scholarship.

Utrecht University*Research Master of Science in Multidisciplinary Economics (GPA 4.0/4.0)***Utrecht***Sep '14-Aug '16*

- Graduated top of class with highest cum laude honors, honors student in Young Innovators Programme.
- Presented research at five international conferences, including at University of Cambridge and MIT.
- Represented cohort and department as MSc representative and member of education committee.
- Awarded Fulbright Scholarship and seven other scholarships for subsequent PhD study abroad.

Utrecht University*Bachelor of Science in Liberal Arts & Sciences; Double Major and Double Minor (GPA 4.0/4.0)***Utrecht***Sep '10-Aug '14*

- Graduated top 5% of class with highest cum laude honors.
- Nominee for Egbert Tellegen Prize and Oxford University Press Student Prize, winner Taste of Strategy at the Boston Consulting Group.

PUBLICATIONS

- *Deus ex Machina? A Framework for Macro Forecasting with Machine Learning*, with Brett Rayner (IMF). IMF Working Paper 20/45 (2020).
- *The More the Merrier? A Machine Learning Algorithm for Optimal Pooling of Panel Data*, with Brett Rayner (IMF). IMF Working Paper 20/44 (2020).
- *Baby boomers and the housing market on the cusp of COVID-19*, with Judd Cramer (Harvard University). VoxEU (2020).
- *Herstel van de Eurozone begint in Duitsland*, Volkskrant (2015).
- *Wie zwijgt, stemt toe...*, Bureau de Helling (2013).

ADDITIONAL WORK EXPERIENCE**Utrecht University***Thesis Supervisor***Utrecht***May '19-current*

- Supervise undergraduate theses of students in economics on a freelance basis.

University of Toronto*Teaching Assistant***Toronto***Sep '16-current*

- Teach lectures, tutorials, office hours, mark and invigilate exams and papers of up to 120 students.
- Evaluated "Award Quality" or "Excellent" in all courses.

Utrecht University*Teaching Assistant***Utrecht***Jun '13-Apr '15*

- Held tutorials, marked and invigilated exams for up to 260 students in physics and economics.

Capita Selecta | Lyceo | StudentsPlus*Teacher***Utrecht | Delft***Oct '11-Jan '14*

- Held lectures, tutorials and did private tutoring for up to 15 students in mathematics, physics, economics.

ADDITIONAL INFORMATION

- **CFA Level I Candidate**
- **Technical skills:** Python, R, MATLAB, ArcGIS, Stata, SPSS, LaTeX, EViews, SQL
- **Languages:** Dutch (native), English (fluent), German (intermediate), French (intermediate), Spanish (basic)
- **Hobbies and interests:** Running, financial markets, traveling, investing