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. Successful track record 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   **Washington D.C.**
PhD FIP - Machine Learning Forecasting   *Jun '19-Sep '19*

- Constructed the IMF's first country-level machine learning framework to perform monthly now- and forecasts of macroeconomic variables.
- Developed a new machine learning panel data forecasting method.
- Published two working papers in the IMF working paper series.
- Presented forecasts of the Turkey team in internal and external meetings.
- Reviewed ongoing machine learning research inside the IMF.

University of Oxford   **Oxford**
Recognised Research PhD in Economics   *Oct '18-Dec '18*

University of Toronto   **Toronto**
PhD Researcher and Research Assistant with Dr. D. Restuccia, Dr. M. Gonzalez-   *Aug '16-current*
Navarro, Dr. M. Celik, Dr. S. Ozkan, Dr. M. Duarte, Dr. B. Kuruscu

- Over four years of experience studying the role of financial and production networks in economic growth.
- Collected and analyzed data, wrote literature reviews, developed models, drafted papers, wrote reports.
- Presented academic research at several international conferences and seminars, incl. NU and U. of Oxford.

Utrecht University   **Utrecht**
Research Assistant with Dr. J. L. Van Zanden, Dr. M. Sanders   *Dec '14-Aug '16*

- Collected and analyzed data, wrote literature reviews, developed models, drafted papers, wrote reports.

Morgen   **Utrecht**
Researcher and Treasurer   *Sep '11-Jul '14*

- Researched and wrote a yearly report assessing the sustainability of Dutch higher education.
- Raised funds, controlled internal finances and recruited staff of an NGO.

RELEVANT EDUCATION

University of Toronto   **Toronto**
PhD in Economics; Fields: Macroeconomics, Machine Learning Forecasting (GPA 4.0/4.0)   *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   **Groningen | Toronto**
Visiting Graduate Student in Economics (GPA 4.0/4.0)   *Sep '15-Jul '16*

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

Utrecht University   **Utrecht**
Research Master of Science in Multidisciplinary Economics (GPA 4.0/4.0)   *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   **Utrecht**
Bachelor of Science in Liberal Arts & Sciences; Double Major and Double Minor (GPA 4.0/4.0)   *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).

ADDITIONAL WORK EXPERIENCE

Utrecht University   **Utrecht**
Thesis Supervisor   *May '19-current*

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

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

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

Capita Selecta | Lyceo | StudentsPlus   **Utrecht | Delft**
Teacher   *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:** English (fluent), Dutch (native), German (intermediate), French (intermediate), Spanish (basic)
- **Hobbies and interests:** Running, financial markets, traveling, investing