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EDUCATION

University of Amsterdam

PhD Candidate in Econometrics

Supervisors: Prof. Dr. H. Peter Boswijk, Dr. Sander Barendse and Dr. Paolo Gorgi

Amsterdam, the Netherlands

Sep 2021 – summer 2026 (expected)

Tinbergen Institute

MPhil in Economics (Advanced Econometrics Track)

Thesis: Long Memory Realised GAS Model

Amsterdam, the Netherlands

Jan 2020 – Aug 2021

National Research University – Higher School of Economics

BSc in Economics

University of York

Academic mobility programme

Saint-Petersburg, Russia

Sep 2015 – Jun 2019

York, the United Kingdom

Jan 2018 – Jun 2018

RESEARCH

Primary Fields: Econometrics, Financial Econometrics.

Secondary Fields: Risk Management, Macroeconometrics.

Job Market Paper (Working Paper)

- “Horizon-Targeted Estimation of Volatility Models: Application to a Misspecification Testing and Forecasting”, 2025. [Download](#)

Summary: We propose an estimator for volatility models that is matched to the specification of the forecast evaluation loss function. We examine the estimator’s performance under a bias-variance trade-off, highlighting conditions where it is likely to offer improvements over standard estimation methods (QML). We also propose a model specification test based on the Hausman principle, which exploits the fact that our estimator and the standard one are consistent for the true parameter under the null and converge to different pseudo-true values under the alternative. The proposed test has the correct size and good power to detect misspecification. Our empirical results suggest that when model misspecification is more severe, it is generally preferable to align the estimation horizon closely with the forecasting horizon.

Other Working Papers

- “Long Memory Realised GAS Model”, 2022.

Summary: We introduce a univariate score-driven model that explicitly incorporates long-memory dynamics in the conditional variance of daily returns. We model the conditional variance as a fractionally integrated process and as a heterogeneous autoregressive model. The new model accommodates heavy-tailed densities for both daily returns and realised measures. This choice of observational densities ensures automatic correction for influential observations through the score function. Our out-of-sample analysis identifies that accounting for long memory is particularly useful for volatility level evaluation and return risk assessment during non-crisis periods.

Work in Progress

- “Constructing multi-period quantile forecasts from dynamic quantile regression”, 2025.

Summary: We propose a method for constructing multi-period quantiles for variables of interest (e.g., GDP growth over a yearly horizon) based on a finite set of one-step-ahead conditional quantiles estimated from the dynamic multiple quantile model of Catania and Luati (2023). We show that the resulting multi-period quantile forecast is optimal in the sense that it minimises the expected quantile tick-loss function. This property is confirmed through simulations. We apply our methodology to forecast GDP growth over a yearly horizon, as motivated by Adrian et al. (2019). Our approach directly produces quantiles at any desired level (e.g., 1%, 5%), and also provides the predictive density of GDP growth and the macroeconomic Expected Shortfall, which is the expected GDP growth conditional on falling below a given quantile.

ACADEMIC EXPERIENCE

De Nederlandsche Bank <i>PhD Intern in Economic Policy and Research Division (supervised by dr. Dennis Bonam)</i>	Amsterdam, the Netherlands <i>Sep 2025 – Feb 2026</i>
Vrije Universiteit Amsterdam (VU Foundation) <i>Research Assistant for Prof. dr. Siem Jan Koopman and Prof. dr. Francisco Blasques</i> • <i>Score-Driven Models: Methodology and Theory, 2022.</i> Download • <i>Score-Driven Models: Methodology and Applications, 2022.</i> Download	Amsterdam, the Netherlands <i>Feb 2021 – Jul 2021</i>
National Research University (NRU)– Higher School of Economics <i>Research Assistant for dr. Alexander Muravyev</i>	Saint-Petersburg, Russia <i>Nov 2018 – Dec 2018</i>

TEACHING EXPERIENCE

Teaching Assistant, University of Amsterdam • Statistics 2 for Economics (BSc): <i>Fall 2025</i> • Econometrics 2 (BSc): <i>Spring 2025</i> • Econometric Analysis (BSc): <i>Fall 2024</i> • Advanced Risk Management (MSc): <i>Spring 2022, 2023, 2024</i> • Econometrics (BSc): <i>Fall 2022, 2023</i> • Thesis supervision (BSc): <i>Spring 2022</i>
Teaching Assistant, Tinbergen Institute • Advanced Mathematics (MPhil): <i>Fall 2021, 2022, 2023</i> • Advanced Econometrics III (Time Series Econometrics, MPhil): <i>Spring 2021</i>

SEMINARS AND CONFERENCES

2025: Macro and Financial Econometrics Workshop in Heidelberg University (invited speaker by Christian Conrad), 17th Annual SoFiE Conference: Pre-Conference for Young Scholars (discussant Peter R. Hansen).
2024: 12 th SIde Workshop for PhD students in Econometrics and Empirical Economics (discussant Massimiliano Caporin); International Association for Applied Econometrics (Xiamen, China; Thessaloniki, Greece), MInt Lunch Seminar (UvA).
2023: UvA Econometrics internal seminar (Amsterdam, the Netherlands); TopQuants: Autumn Event, poster (ING, the Netherlands); 3rd International Econometrics PhD Conference (Econometric Institute at Erasmus University Rotterdam, the Netherlands).
2022: Brown Bag Econometrics Lunch Seminar (University of Amsterdam, the Netherlands); International Association for Applied Econometrics (King's College London, the UK); 2 nd International Conference on Econometrics and Business Analytics (Yerevan and Dilijan, Republic of Armenia); CEBA talk (online); 16th International Conference CFE (King's College London, the UK).

ADDITIONAL EDUCATION

Scientific Programming in Python <i>Lecturer: Dr. Simon Paww</i> • Python data structures, Pandas, Seaborn, functional and object oriented programming.	University of Amsterdam <i>Feb – Mar 2024</i>
Machine Learning in finance <i>Lecturer: Prof. Dr. Yacine Aït-Sahalia</i> • Methodologies employed in machine learning and applications in finance (credit scoring, factor models, sentiment analysis).	Tinbergen Institute <i>Nov 2021</i>
QFFE Spring School <i>Lecturers: Prof. Dr. Jun Yu, Prof. Dr. Kris Jacobs</i> • Estimation, inference, prediction, identification of fractional time series. Specification and estimation of dynamic option valuation models.	Aix-Marseille University <i>Jun 2023</i>
Tutorials CFE <i>Lecturers: Prof. Dr. Armelle Guillou, Dr. Michael Pitt</i>	King's College London <i>Dec 2022</i>

- Extreme value analysis. Latent variable dynamic models.

QFFE Spring School

Lecturers: *Dr. Christian Brownlees, Prof. Dr. Peter Reinhard Hansen*

Aix-Marseille University

Jun 2022

- Large dimensional network models. Estimation of covariances and correlations in finance.

Econometrics Summer Workshop

Lecturers: *Prof. Dr. Siem Jan Koopman and Prof. Dr. Francisco Blasques*

Vrije Universiteit Amsterdam

Aug 2019

- Estimation and inference of econometric models, and prediction.

PRIZES AND AWARDS

Tinbergen Institute Full Graduate Scholarship	<i>2020-2021</i>
Holland Scholarship Programme (contribution towards costs of living)	<i>2019</i>
VU Fellowship Programme (tuition fee waiver for MSc)	<i>2019</i>
Excellence Scholarship Erasmus+	<i>2018</i>
Scholarship from VTB Bank for outstanding results in studies and scientific work	<i>2018</i>
Finalist in the Econometrics projection competition: "The level of domestic corruption in Russia"	<i>2018</i>
Full State Scholarship for merits (tuition fee waiver for BSc)	<i>2015-2019</i>

SKILLS

Languages: Russian (native), English (fluent), Dutch (pre-intermediate, B1), Spanish (beginner, A2.1)

Programming languages: Matlab (expert), Python (proficient) and R (proficient)

Statistical software: Stata (experienced) and EViews (experienced)

PLACEMENT

Prof. Dr. Eric Bartelsman

Placement Director (e.j.bartelsman@vu.nl)

Christina Månsson

Placement Assistant (c.mansson@tinbergen.nl)

REFERENCES

Prof. Dr. H. Peter Boswijk

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University of Amsterdam

H.P.Boswijk@uva.nl

Dr. Sander Barendse

Assistant Professor of Econometrics

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Dr. Paolo Gorgi

Associate Professor of Econometrics and Data Science

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Dr. Anne Opschoor

Associate Professor of Finance

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Dr. Dennis Bonam

Principal Economist at the Economic Policy and Research Division

De Nederlandsche Bank

d.a.r.bonam@dnb.nl