Hoang Nguyen

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Contact Information

Office: Campus Valla, A-huset, Room 3A:943

Production Economics

Department of Management and Engineering

Linköping University 581 83 Linköping, Sweden Phone: (+46) 72 156 67 61 Personal Information

Nationality: Vietnam Date of birth: 29 Jan 1989 Marital Status: Married

Current Position Senior lecturer at Department of Management and Engineering (IEI),

Linköping University

08/2023-Now

Postdoctoral researcher at School of Business, Örebro University

2019-2023

2019

Education

PhD. Business and Quantitative methods, Universidad Carlos III de Madrid

Bayesian inference for high dimensional factor copula models

Supervisors: Prof. M. Concepción Ausín and Prof. Pedro Galeano

Visiting PhD student at Ca' Foscari University of Venice,

Invited by **Prof. Roberto Casarin**,

Oct - Dec, 2017

MSc. Business and Quantitative methods, Universidad Carlos III de Madrid 2015

BA in Banking and Finance, National Economics University, Vietnam (NEU) 2011

Publication

- 14. Elena Farahbakhsh Touli, **Hoang Nguyen** and Olha Bodnar (2024), *Monitor*ing the Dynamic Networks of Stock Returns with an Application to the Swedish Stock Market, Computational Economics. (Paper)
- 13. Hoang Nguyen and Pär Osterholm (2024), A Note on The Dynamic Effects of Supply and Demand Shocks in the Crude Oil Market, Applied Economics Letters. (Paper)
- 12. Audronė Virbickaitė, **Hoang Nguyen** and Minh-Ngoc Tran (2023), Bayesian predictive distributions of oil returns using Mixed Data Sampling volatility models, Resources Policy (Paper - Codes)
- 11. Hoang Nguyen, Farrukh Javed (2023), Dynamic relationship between Stock market and Bond market: A GAS MIDAS copula approach, Journal of Empirical Finance (Paper - Codes)
- 10. Hoang Nguyen and Audronė Virbickaitė (2023), Modeling stock-oil co-dependence with Dynamic Stochastic MIDAS Copula models, Energy Economics. (Paper - Codes)
- 9. Sune Karlsson, Stepan Mazur, Hoang Nguyen (2022), Vector autoregression models with skewness and heavy tails, Journal of Economic Dynamics and Control. (Paper - Codes - Appendix - Slides)

- 8. Tamás Kiss, Stepan Mazur, **Hoang Nguyen** and Pär Österholm (2022), *Modelling the Relation between the US Real Economy and the Corporate Bond-Yield Spread in Bayesian VARs with non-Gaussian Disturbances*, Journal of Forecasting. (Paper Codes)
- 7. Tamás Kiss, **Hoang Nguyen** and Pär Österholm (2022), *Modelling Okun's Law–Does non-Gaussianity Matter?*, Empirical Economics. (Paper Codes)
- 6. Tamás Kiss, **Hoang Nguyen**, and Pär Österholm (2021), *Modelling Returns in US Housing Prices—You're the One for Me, Fat Tails*, Journal of Risk and Financial Management. (Paper)
- 5. **Hoang Nguyen**, Trong-Nghia Nguyen, Minh-Ngoc Tran (2021), A dynamic leverage stochastic volatility model, Applied Economics Letters. (Paper Slides)
- 4. Tamás Kiss, **Hoang Nguyen**, and Pär Österholm (2021), *The Relation between the High-Yield Bond Spread and the Unemployment Rate in the Euro Area*, Finance Research Letters. (Paper)
- 3. Tamás Kiss, Stepan Mazur, and **Hoang Nguyen** (2021), *Predicting returns and dividend growth the role of non-Gaussian innovations*, Finance Research Letters. (Paper)
- 2. **Hoang Nguyen,** M. Concepción Ausín and Pedro Galeano (2020), *Variational Inference for high dimensional structured factor copulas*, Computational Statistics & Data Analysis. (Paper Code Appendix Slides Poster)
- 1. **Hoang Nguyen,** M. Concepción Ausín and Pedro Galeano (2019), *Parallel Bayesian inference for high dimensional dynamic factor copulas*, Journal of Financial Econometrics, 17(1), 118-151. (Paper Code Appendix Slides Poster)

Working paper

Hoang Nguyen, Audronė Virbickaitė, M. Concepción Ausín and Pedro Galeano, Structured factor copulas for modeling the systemic risk of European and U.S. banks (Paper - Online Appendix - Codes)

Taras Bodnar, Stepan Mazur, **Hoang Nguyen** (2022), Estimation of optimal portfolio compositions for small sample and singular covariance matrix (Paper)

Hien Nguyen Thi, **Hoang Nguyen** and Minh-Ngoc Tran (2023), *Deep Learning Enhanced Volatility Modelling with Covariates* (Paper - Codes)

Sune Karlsson, Tamás Kiss, **Hoang Nguyen** and Pär Österholm, *Hybrid time varying parameter VAR models with fat tails* (Paper - Codes)

Ongoing work

Other Publications

Sune Karlsson, Tamás Kiss, **Hoang Nguyen**, and Pär Österholm (2022),

Svensk ekonomi är inte normal (och oberoende) – fakta om makroekonomiska variablers tidsserieegenskaper, Ekonomisk Debatt. (Paper)

Teaching Experience Instructor, IEI, Linköping University Financial Risk Management Portfolio Management

2023 - 2024

2024

	Instructor, Statistics Unit, Örebro University Independent Project I - II, Statistics Economics, Methods for Analysis in Economics and Finance Data mining and business analytics	2019 - 2022 2022 2022	
Conference &	Parallel Bayesian inference for high dimensional dynamic factor copulas Presenter, CFE-CMStatistics 2016 Seville 2016		
seminar			
	Presenter, Workshop in Bayesian Econometrics, UC3M Poster presenter, International Society for Bayesian Analysis (ISBA)	Madrid 2016 Cagliari 2016	
	What are drivers of Swedish sustainable development path? Presenter, XX Applied Economics Meetings	Valencia 2017	
	Variational Inference for high dimensional structured factor copulas Presenter, 49th Meeting of the Working Groups "Statistical Computing"		
	and "Biostatistics"	Gunzburg 2017	
	Presenter, University Ca' Foscari Internal research seminar	Venice 2017	
	Presenter, Workshop on Financial Econometrics	Örebro 2018	
	Presenter, CFE-CMStatistics 2018	Pisa 2018	
	Poster presenter, International Society for Bayesian Analysis (ISBA)	Edinburgh 2018	
	Poster presenter, Bayesian Statistics in the Big Data Era	Marseille 2018	
	Structured factor copulas for modeling the systemic risk of European and U.S. banks		
	Presenter, The 2nd workshop on Multivariate Data and Software	Cyprus 2019	
		Thessaloniki 2019	
	Presenter, CFE-CMStatistics 2019	London 2019	
	Presenter, Seminar in Statistics, Stockholm University	Stockholm 2024	
	Vector autoregression models with skewness and heavy tails		
	Presenter, Instituto Tecnológico Autónomo de México external semin		
	Presenter, 40th International Symposium on Forecasting	Virtual 2020	
	Presenter, 2nd Vienna Workshop on Economic Forecasting	Virtual 2020	
	Presenter, Stockholm University Matstat seminar	Virtual 2020	
	Presenter, ISBA world meeting	Virtual 2021	
	Dynamic relationship between Stock market and Bond market		
	Presenter, CFE-CMStatistics 2020 Presenter, 41th International Symposium on Forecasting	Virtual 2020	
	Presenter, 41th International Symposium on Forecasting	Virtual 2021	
	Presenter, ISI world statistics congress 2021 Presenter, 27th International Conference on Computing in Eco&Fin	Virtual 2021 Virtual 2021	
	A dynamic leverage stochastic volatility model		
	Poster presenter, 11th European Seminar on Bayesian Econometrics	Hybrid 2021	
	Modeling stock-oil co-dependence with DSM Copula models Presenter, 2022 NBER-NSF SBIES Conference Hybrid 2022		
	Presenter, Swedish Conference in Economics	Stockholm 2022	
	Poster presenter, ISBA world meeting	Montreal 2022	
	Hybrid time varying parameter VAR models with fat tails		
	Poster presenter, ESOBE 2022	Salzburg 2022	

Bayesian predictive distributions of oil returns using Mixed Data Sampling volatility models

Presenter, 2023 NBER-NSF SBIES Conference Philadelphia 2023

Awards IEI travel grant 2024

NBER-NSF SBIES travel grant2023Siamon Foundation travel grant2022ISBA World meeting travel grant2018&2022

ISF travel grant 2019
CRoNoS travel grant 2019
UC3M mobility grant 2017

ALDE travel grant 2017

Computer Languages: R, C++, Python, Matlab Skills Software: Latex, Open Office.

OS: Linux.

Languages Vietnamese (Native), English (Advanced); Spanish (Elementary); Swedish (Beginner);