Curriculum Vitae
Karin Klieber

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Tel.:	+43 664 128 37 38
Date of Birth:	30 March 1994
Nationality:	Austrian
Research interests:	Macroeconomic forecasting, monetary policy, inflation, Bayesian econometrics, machine learning, neural networks

Education

Paris Lodron University of Salzburg — Salzburg, AT
PhD in Economics — *10/2019 - 10/2022*

- Supervisor: Florian Huber, PhD
- Thesis: "Macroeconomic Forecasting in the Post Covid Era"

Karl-Franzens-University of Graz — Graz, AT
M.Sc.(Econ.) in Political and Empirical Economics — *10/2016 – 06/2018*

- Summa cum laude (ranked 3^{rd}/500 in the faculty of Social Sciences)
- Thesis in Development Economics: "Prebisch-Singer Theorem in the Course of Time, Brazilian Terms of Trade in Focus"

Karl-Franzens-University of Graz — Graz, AT
B.A.(Econ.) in Economics — *10/2013 – 06/2016*

- Thesis I: "Intrafirm Trade"
- Thesis II: "Inequality in wealth and the consequences for our society"

Macquarie University Sydney — Sydney, AU
Joint Study Exchange Program — *02/2015 – 06/2015*

Scholarships and Awards

- Young Investigator Award 2022 of the Faculty of Law, Business and Economics, University of Salzburg
- ISBA New Researcher Travel Award 2021
- 3^{rd} ranked in the Student Ranking of the Faculty of Social Sciences, University of Graz for the period 10/2016 – 06/2018
- Scholarship for the European Forum Alpbach in 08/2017
- Performance-based Scholarship of the Faculty of Social Sciences, University of Graz for the period 10/2016 – 06/2017
- Performance-based Scholarship of the Faculty of Social Sciences, University of Graz for the period 10/2013 – 06/2014

Relevant Experience

Economist — Since 10/2022
Monetary Policy Section, Oesterreichische Nationalbank — *Vienna, AT*

- Research in the field of inflation and monetary policy
- Development of time series models to analyze Euro area inflation
- Evaluation of inflation expectations with different data sources
- Monitoring Euro area inflation for the quarterly monetary policy assessment and other management meetings
- Visualization of research results for internal assessment and briefings (R Shiny Dashboards and slides)

Research Associate 07/2021 – 06/2022
Economic Data Science, Swiss National Bank *Zürich, CH*

- Now- and short-term forecasting of real economic activity in Switzerland (weekly business cycle index - BCI)
- Development and maintenance of the different time series models used for the Swiss BCI
- Sector-specific analysis of GPD forecast on a regular basis
- Analysis of dependencies between domestic and foreign sectors with input-output tables
- Data monitoring and handling including development of algorithms to deal with large outliers (pandemic observation)
- Visualization of model results for internal assessments (in form of R Shiny Dashboards) and for the quarterly monetary policy assessment and other management meetings (in form of slides)

Research Associate Since 12/2019
Institute of Macroeconomics, Paris Lodron University of Salzburg *Salzburg, AT*

- Development of Bayesian time series models for forecasting and structural inference in macroeconomics
- Application of machine learning techniques (e.g., neural networks, regression trees, non-linear dimension reduction) in the context of Bayesian econometrics
- Research grant from the Oesterreichische Nationalbank (OeNB): The impact of fiscal policy on the term structure of interest rates within the Eurozone

Junior Researcher 11/2019 – 10/2020
Salzburg Research Forschungsgesellschaft m.b.H. *Salzburg, AT*

- Regional research activities in tourism, mobility and smart cities
- Data analysis
- Preparation, conduction and evaluation of surveys
- Preparation of presentations and research papers

Market Analyst 01/2019 – 11/2019
Wholesale International, Porsche Holding Salzburg *Salzburg, AT*

- Data analysis for Eastern Europe and Asia
- Country-specific market statistics and market developments
- Determination and evaluation of performance goals
- Presentation to the top management

Intern for Banking Supervision Policy & Strategy 07/2018 – 12/2018
Oesterreichische Nationalbank *Vienna, AT*

- Assistance in the tasks concerning the supervision of global systemically important banks
- Formulation of policy goals and strategies
- Data handling with Bloomberg, Excel and R, visualizations in Tableau
- Preparation of presentations and working papers

Research Assistant 09/2017 – 07/2018
Institute of Public Economics, Karl-Franzens-University Graz *Graz, AT*

- Organization and assistance of the lecture "Introductory Economics and Legal Perspectives"
- Administer tutorials and exams
- Administrative duties

Intern for Economic Policy and Statistics 08/2017 – 09/2017
The Austrian Federal Economic Chamber *Salzburg, AT*

- Data analysis with R
- Statistical evaluations and economical interpretations
- Responding to statistical enquiries
- Preparation of working papers

Volunteer 08/2016 – 09/2016
Austrian Consulate General - Commercial Section *Strasbourg, FR*

- Market research, marketing, recovery of debts

Teaching Experience

Macroeconomics (undergrad.) Fall 2020, 2022
Paris Lodron University of Salzburg *Salzburg, AT*

Introductory Economics and Legal Perspectives (undergrad.) Fall 2017, Spring 2018
Karl-Franzens-University of Graz *Graz, AT*

Publications

Hauzenberger, N., Huber, F., and Klieber, K. (forthcoming): "Real-time Inflation Forecasting Using Non-linear Dimension Reduction Techniques", International Journal of Forecasting.

Presentation in Academic Conferences

16th International Conference on Computational and Financial Econometrics (CFE) 2022. Enhanced Bayesian Neural Networks for Macroeconomics and Finance, 12/2022

24th International Conference on Computational Statistics (COMPSTAT) 2022. Model specification for Bayesian neural networks in macroeconomics, 08/2022

Annual Meeting of the Austrian Economic Association (NOeG) 2021. Real-time Inflation Forecasting Using Non-linear Dimension Reduction Techniques, 06/2021

11th European Seminar on Bayesian Econometrics (ESOBE) 2021. Real-time Inflation Forecasting Using Non-linear Dimension Reduction Techniques, 09/2021

Software Skills

Language: R (advanced), MATLAB (advanced), Python (intermediate)
Office: Latex (advanced), Microsoft Office (advanced)
Visualization: Tableau (advanced), R ggplot (advanced), R Shiny and R Markdowns (advanced)
Database: Bloomberg (basic), Refinitiv Datastream (basic)
Project management: Jira (advanced), Confluence (intermediate)
Other: Gitlab (advanced), LimeSurvey (advanced)

Language Skills

Native: German
Foreign: English (fluent), French (intermediate)