

Christoph Friedrich Schult

Postdoctoral Researcher in Macroeconomics and Energy Economics (DSGE, Forecasting, Climate Policy Evaluation)

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Current Position

Postdoctoral Researcher, Halle Institute for Economic Research (IWH), Halle, Germany

Academic Positions

2021–present Postdoctoral Researcher, Halle Institute for Economic Research (IWH).

2016–2021 PhD Candidate, Halle Institute for Economic Research (IWH).

Publications

PEER-REVIEWED JOURNAL ARTICLES

Regional Industrial Effects in Germany from a Potential Gas Deficit (with Robert Lehmann), **German Economic Review**, 2024, 101515.

Transparency and Forecasting: The Impact of Conditioning Assumptions on Forecast Accuracy (with Katja Heinisch and Carola Stepper), **Applied Economics Letters**, 2024, 1–5.

The Effects of the Iberian Exception Mechanism on Wholesale Electricity Prices and Consumer Inflation: A Synthetic-Control Approach (with Miguel Haro Ruiz and Christoph Wunder), **Applied Economics Letters**, 2024, 1–7.

Power Generation and Structural Change: Quantifying Economic Effects of the Coal Phase-Out in Germany (with Katja Heinisch and Oliver Holtemöller), **Energy Economics**, 2021, 105008.

Coal Phase-Out in Germany – Implications and Policies for Affected Regions (with Pao-Yu Oei et al.), **Energy**, 2020, 117004.

Expectation Formation, Financial Frictions, and Forecasting Performance of DSGE Models (with Oliver Holtemöller), **Historical Social Research**, 2019, 44(2) 313–339.

WORKING PAPERS & DISCUSSION PAPERS

Climate Change Economics in Vietnam: Redefining Economic Impact (with Christian Otto and Thomas Vogt), IWH Discussion Paper No. 15/2025. *Under review*.

Assumption Errors and Forecast Accuracy: A Partial Linear Instrumental Variable and Double Machine Learning Approach (with Katja Heinisch and Fabio Scaramella), IWH Discussion Paper No. 6/2025. *Under review.*

The German Energy Crisis: A TENK-based Fiscal Policy Analysis (with Alexandra Gutsch), IWH Discussion Paper No. 1/2025. *Under review.*

Is Risk the Fuel of the Business Cycle? Financial Frictions and Oil Market Disturbances, IWH Discussion Paper No. 4/2024.

Research Interests

Macroeconomics (DSGE models, expectation formation, financial frictions)
Energy and Environmental Economics (energy transition, coal phase-out, climate policy evaluation)
Forecasting, forecast evaluation, and uncertainty
Regional and applied macroeconomics

Methods & Skills

Dynamic Stochastic General Equilibrium (DSGE) modelling; structural and applied macroeconomics;
forecast evaluation; synthetic control methods; policy evaluation.

Programming: MATLAB, R, Python (advanced); Stata, SQL, VBA (basic)

Econometric tools: panel data, IV, synthetic control, machine learning–based causal inference.

Education

- 2021 Dr. rer. pol. (PhD) in Economics, Martin-Luther-Universität Halle-Wittenberg.
Dissertation: *Expectation Formation, Energy Transitions, and Macroeconomic Dynamics.*
- 2015 M.Sc. in Economics, Humboldt-Universität zu Berlin.
- 2013 B.Sc. in Economics, Martin-Luther-Universität Halle-Wittenberg.

Third-Party Funded Research Projects

- 2024–present Macroeconomic modelling of energy investments in Vietnam (GIZ).
- 2022–present Evaluation of the Investment Act for Coal Regions (InvKG) and the federal STARK programme (BMWE).
- 2020–2023 Energy transitions and socio-economic impacts (EU Horizon 2020).
- 2019–2022 Climate-resilient economic development in Vietnam (GIZ).
- 2016–2019 Coal phase-out and climate policy strategies (German Environment Agency, UBA).

Talks & Conferences

26th IWH-CIREQ-GW-BOKERI Macroeconometric Workshop, Halle, 2025

VfS Annual Conference, 2025, Cologne

International Association for Applied Econometrics, 2025, Turin

3rd Vienna Workshop on Economic Forecasting, 2025, Vienna

Asia Meeting of the Econometric Society, East & Southeast Asia, 2024, Ho Chi Minh City, Vietnam

North American Summer Meeting of the Econometric Society, 2024, Nashville, Tennessee

Computational and Financial Econometrics, 2023, Berlin

6th International Conference on Econometrics and Statistics (EcoSta), 2023, Virtual Participation

International Symposium on Forecasting, 2023, Charlottesville, VA

EC² Conference: Econometrics of Climate, Energy, and Resources, 2021, Virtual Participation

International Association for Applied Econometrics, 2021, Virtual Participation

26th Annual Conference of the European Association of Environmental and Resource Economists, 2021, Virtual Participation

Third International Conference on European Studies, 2021, Virtual Participation

Computational and Financial Econometrics, 2020, London

ClimRisk 2020, SISC Annual Conference, 2020

American Economic Association, ASSA Meetings, 2020, San Diego, CA (Poster)

Annual Congress of the European Economic Association, 2019, Manchester

World Statistics Congress, 2019, Kuala Lumpur

International Conference on Economic Modelling and Data Science, 2019, Ponta Delgada

Annual Conference of the European Association of Environmental and Resource Economists, 2019, Manchester

International Symposium on Forecasting, 2019, Thessaloniki

International Conference on Computational and Financial Econometrics, 2018, Pisa

International Symposium on Environment and Energy Finance Issues, 2018, Paris.

Teaching

- 2025/2026 Interim Professorship, *Macroeconomics* (BA level), Leipzig University (Winter Term).
2024 Introduction to Octave/Matlab for Macroeconomics, Central German Doctoral Program in Economics.
2022 Instructor, DGE-CRED Practical Training: Climate-Resilient Economic Development
2016 Statistical Programming Languages, Humboldt-Universität zu Berlin.

Service to the Profession

- 2019–2025 Referee, *Energy Economics*.
2024 Referee, *The Electricity Journal*.
2019 Referee, *Economics of Transition and Institutional Change*.

Policy Reports & Advisory Work (Selected)

POLICY REPORTS & ADVISORY WORK

- 2025 Accompanying Evaluation of the Investment Act for Coal Regions (InvKG) and the STARK Federal Program. Interim Report 2025 (IWH Studies No. 3) and Second Interim Report (IWH Studies No. 1). Commissioned by the Federal Ministry for Economic Affairs and Climate Action (BMWK).
- 2025 Impact of the Infrastructure and Climate Neutrality Special Fund on Growth Potential in Mecklenburg-Vorpommern. IWH Policy Notes No. 3. Expert testimony for the State Parliament of Mecklenburg-Vorpommern.
- 2023 First Interim Report & Final Report on Contract Extension: Accompanying Evaluation of the InvKG. IWH Studies No. 5 & 6. Expert opinions on growth determinants in coal mining regions.
- 2023 Evidence-based Support for Adaptation Policies in Emerging Economies. IWH Studies No. 2. Macroeconomic modeling for Kazakhstan, Georgia, and Vietnam.
- 2023 Comprehensive Cost Assessment of Climate Change Impacts in Schleswig-Holstein. IWH Policy Notes No. 1. Expert testimony for the State Parliament of Schleswig-Holstein.
- 2022–2024 Contributor, Joint Economic Forecast (Gemeinschaftsdiagnose).
- 2019 **Statement on the “Coal Regions Investment Act”.** IWH Online No. 2. Expert testimony for the Committee on Economic Affairs and Energy of the German Bundestag.

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