

# DR. FABIAN STÖCKL

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## WORK EXPERIENCE

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### Economist at Vivid Economics,

*Growth & Development Practice, Cities & Infrastructure Practice*

*since 2021*

### Research Associate at the German Institute for Economic Research (DIW Berlin),

*Department Energy, Transportation, and Environment*

*2015-2021*

- Plan, organize, and conduct research projects
- Software development (numerical energy system modeling); Focus: hydrogen and synthetic fuels
- Publishing in scientific journals and presentations at scientific and policy-oriented conferences
- Preparation of executive summaries
- Instruction and supervision of student assistants

## EDUCATION

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### Ph.D. in Economics, supervised by Prof. Dr. Georg Meran and Prof. Dr. Claudia Kemfert

*Technische Universität Berlin, DIW Berlin Graduate Center, and Berlin School of Economics*

*2015-2020*

### DIW Graduate Center

*One-year Ph.D.-level coursework (structured Ph.D.-program)*

*2014-2015*

### M.Sc. in Economics

*Ludwig Maximilians Universität Munich, Germany*

*2011-2014*

### B.Sc. in Economics

*Ludwig Maximilians Universität Munich, Germany*

*2008-2011*

## PUBLISHED PAPERS

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### What Determines the Elasticity of Substitution Between Capital and Labor? A Literature Review

with Michael Knobloch, *Journal of Economic Surveys* (2020) [[PDF](#)]

### Green Hydrogen: Optimal Supply Chains and Power Sector Benefits

with Wolf-Peter Schill and Alexander Zerrahn, *Scientific Reports* (forthcoming) [[PDF](#) - [working paper](#)]

## WORKING PAPERS

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### Is Substitutability the New Efficiency? Endogenous Investment in the Elasticity of Substitution between Clean and Dirty Energy

*DIW Discussion Paper No. 1886* [[PDF](#)]

### Substituting Clean for Dirty Energy: A Bottom-Up Analysis

with Alexander Zerrahn, *DIW Discussion Paper No. 1885* [[PDF](#)] - under review

## WORK IN PROGRESS

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### “My eRoads” - Electrification Potential of Freight and Bus Transport

Funding: *German Ministry for the Environment, Nature Conservation and Nuclear Safety*

Project Partners: *IFEU (lead), Fraunhofer IIS, PTV Group, DIW Berlin*

### Benefits of Hydrogen/Power-to-Liquid Mobility for Integrating Intermittent Renewable Energy

with Carlos Gaete, Martin Kittel, Alexander Roth, and Wolf-Peter Schill

### Increasing Capital-Labor Substitutability and the Declining Labor Income Share

## SOFTWARE DEVELOPMENT

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### Core developer of DIETER (Dispatch & Investment Evaluation Tool with Endogenous Renewables) [[GitLab](#)]

- Programming Language: *GAMS/Python*

- Special Contributions:

- H<sub>2</sub> production and distribution for the mobility sector ([DIETER 1.4](#))
- H<sub>2</sub> as energy storage ([DIETER 1.5](#))
- Power-to-Liquid production ([DIETER 1.5](#))

## TEACHING

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### Hertie School of Governance:

Teaching Assistant; Course: “*Trade, Growth, and Development*” (Prof. Dr. Franziska Holz)

2016

## PRESENTATIONS

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*Selected Presentations:* EAERE Meeting (2021 - scheduled) *Berlin*; EEA Meeting (2020) *Erasmus-University Rotterdam*; 7th GGKP Annual Congress (2019) *Seoul*; EEA Meeting (2019) *University of Manchester*; Berlin-Bavaria Meeting, *Ifo Institute Munich*; P2X-Day - Kopernikus Project (2019) *Frankfurt*; 6th World Congress of Environmental and Resource Economists (2018) *University of Gothenburg*; 7th Mannheim Energy Conference (2018) *Center for European Economic Research (ZEW), Mannheim*; AURÖ Workshop - German Economics Association (2018) *University of Osnabrück*

## OTHER PROFESSIONAL ACTIVITY

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**Refereeing** Nature Communications, Economics Bulletin

## SCHOLARSHIPS AND AWARDS

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Doctoral Grant from the **DIW Berlin Graduate Center** 2014-2015

University of Munich program for top-performing students (**ECONnect**) 2009-2010

## FURTHER SKILLS

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**Languages** German (native), English (fluent), Spanish (intermediate)

**Software** Mathematica, GAMS, R, Microsoft Office, L<sup>A</sup>T<sub>E</sub>X, (Python)

**Further Training** *CGE (computable general equilibrium) in Climate and Energy Economics*, Workshop by Frank Vöhringer (EPF Lausanne), 2015

## RESEARCH INTERESTS

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**Primary Fields** (Green) Growth Theory, Environmental and Climate Economics, Declining Labor Share of Income

**Secondary Fields** Energy System Modeling, Operations Research

## REFERENCES

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## PERSONAL

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**Date & Place of Birth** September 24, 1986, Salzburg, Austria

**Citizenship** Austria

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