

MARIE-LOUISE ARLT

ifo Institute, Poschingerstrasse 5, 81679 Munich, Germany
arlt@ifo.de

POSITIONS

Junior Research Group Leader at ifo Institute, Munich (Germany) Junior Research Group of Big Data (in particular in energy & climate)	<i>Since 04/2023</i>
Postdoctoral Fellow at Ludwig Maximilian University, Munich (Germany) Chair of Comparative Economics, Department of Economics	<i>11/2020 - 03/2023</i>
Postdoctoral Fellow at Ludwig Maximilian University, Munich (Germany) Chair of Comparative Economics, Department of Economics	<i>11/2020 - 03/2023</i>
Visiting Postdoctoral Fellow at ETH, Zurich Climate, Finance, and Policy (CFP) group, Department of Humanities, Social and Political Sciences	<i>03/2022 - 05/2022</i>
Visiting Student Researcher and Affiliate at Stanford University (US)	<i>04/2018 - 10/2020</i>
Affiliate and Visiting Scientist at SLAC, Menlo Park (US)	<i>04/2018 - 10/2020</i>
Visiting Scholar at Lawrence Berkeley National Lab (US)	<i>01/2017 - 09/2018</i>
Analyst at Ecofys GmbH, Berlin (Germany) Group "Energy Systems and Markets": consultancy services for clients such as the German Ministry of Economics and Energy, EU Commission, Agora Energiewende, and grid operators	<i>10/2015 - 12/2016</i>

EDUCATION

Ph.D. in Economics Albert Ludwig University of Freiburg, Germany, and Stanford University (visiting from 02/2018 to 09/2020) <i>Advisors:</i> Professor Dr. Dirk Neumann (Head of Ph.D. committee), University of Freiburg, and Professor Ram Rajagopal, Ph.D., Stanford University	<i>11/2016 - 10/2020</i>
Master of Science, Economics and Business Administration FernUniversitaet Hagen, Germany	<i>10/2011 - 07/2015</i>
Bachelor of Science, Engineering Science Technical University of Munich, Germany	<i>10/2011 - 10/2014</i>
Bachelor of Science, International Economics (European Studies) Eberhard Karl University Tuebingen, Germany Studies abroad at Higher School of Economics (Moscow), Russia (09/2009 - 04/2010)	<i>10/2007 - 03/2011</i>

RESEARCH INTERESTS

Energy markets; market design, mechanism design; optimization including dynamic programming, reinforcement learning, and neural nets.

SELECTION OF CURRENT RESEARCH PROJECTS AND WORKING PAPERS

- Understanding Residential Solar Adoption Trajectories with Computer Vision and Technology Diffusion Models**
With Zh Wang, Ch Zanocco, R Rajagopal, and A Majumdar, *Joule*, vol. 6 (11), pp. 2611-2625.
- The 3D-PV-Locator for the Large-Scale Detection of Rooftop-Mounted Photovoltaic Systems in 3D**
With K Mayer, B Rausch, Zh Wang, D Neumann, and R Rajagopal, *Applied Energy*, vol. 310, 118469.
- Do Retailers Have Efficient Incentives to Invest in Public Charging Stations for Electric Vehicles?**
With N Astier, R&R, <http://ssrn.com/abstract=4291679>.

Online Demand Response Programs for Constrained Local Electricity Systems

With G Gust and D Neumann, under review.

Presented at (selection): 2022 MSOM, 2022 OR, 2019 WCBA, 2018 POMS Meeting

REFEREE ACTIVITIES

Journals: Applied Energy (7.9), Electronic Commerce Research and Applications (6.0), BISE (3.4)
Conferences: ECIS, IEEE PES GM, ACC
Technical Programme Committee member at DACH Energy Informatics 2021

AWARDS & THIRD-PARTY FUNDING

LMU Postdoctoral Fellowship under the Marie Skłodowska-Curie Actions program of the European Union (own position + 22,400 EUR)	11/2020 - 03/2023
“Adolf Lampe” award of the Department of Economics at Albert Ludwig University, Freiburg	10/2021
LMU Economics Junior Development Research Funds (7,598 EUR)	07/2021
Nominee for the Distinguished CESifo Affiliate Award (Energy and Climate Economics)	03/2021
Visiting Student Research Fellowship by Stanford University	04/2018 - 03/2020
Ph.D. scholarship of German Academic Scholarship Foundation	02/2018 - 07/2020
Scholarship of the German Academic Exchange Service (DAAD)	07/2017 - 12/2017
Scholarship of German Academic Scholarship Foundation	09/2008 - 03/2015
Scholarship of the “Alfried Krupp von Bohlen und Halbach“-Foundation	09/2009 - 10/2010

TEACHING

Lecture “Economics of Power Markets” (Ludwig Maximilian University of Munich, Master in Economics)
Seminar “Green Innovation” (Ludwig Maximilian University of Munich, Bachelor in Economics)
Supervision of several seminar papers and Bachelor’s and Master’s theses (LMU, Stanford University, Albert Ludwig University of Freiburg)

MEMBERSHIPS

Verein für Socialpolitik, CESifo network, dialog e.V.

OTHER SKILLS AND ACTIVITIES

- Technical Skills: Python, MySQL, Webcrawling, GridLAB-D, Keras, GAMS, Latex, MS Office
- German (native), English (proficient), Russian (fluent), French (fluent), Latin (Latinum)
- Strong interest in international relations: served as Chairperson of dialog e.V. (05/2013 - 05/2016; 11/2022-) and organized excursions to and conferences in Russia/Ukraine
- Speaker of the Bay-Area group of the German Academic Scholarship Foundation (2018/19)