# MARIE-LOUISE ARLT

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# POSITIONS

Assistant Professor (TT) at University of Bayreuth, Bayreuth (Germany) Information Systems Research, in particular on Connected Energy Storage Member of the Bavarian Center for Battery Technology (BayBatt)	Since 06/2024	
Research Associate at ifo Institute, Munich (Germany)	Since 06/2024	
Junior Research Group Leader at ifo Institute, Munich (Germany) Junior Research Group of Big Data (in particular in energy & climate)	04/2023 - 05/2024	
<b>Postdoctoral Fellow at Ludwig Maximilian University, Munich (Germany)</b> Chair of Comparative Economics, Department of Economics	11/2020 - 03/2023	
Visiting Postdoctoral Fellow at ETH, Zurich	03/2022 - 05/2022	
Climate, Finance, and Policy (CFP) group, Department of Humanities, Social and Political Sciences		
Visiting Student Researcher and Affiliate at Stanford University (US)	04/2018 - 10/2020	
Affiliate and Visiting Scientist at SLAC, Menlo Park (US)	04/2018 - 10/2020	
Visiting Scholar at Lawrence Berkeley National Lab $(US)$	01/2017 - 09/2018	
Analyst at Ecofys GmbH, Berlin (Germany)	10/2015 - 12/2016	
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		

## EDUCATION

<i>0/2020</i> /2020) or Ram
7/2015
0/2014
3/2011
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## **RESEARCH INTERESTS**

Energy markets; electric load flexibility; economic policies for decarbonization; optimization including dynamic programming, reinforcement learning, and neural nets; empirical economic research.

# SELECTION OF CURRENT RESEARCH PROJECTS AND WORKING PAPERS

**Online Demand Response Programs for Constrained Local Electricity Systems** With G Gust and D Neumann, R&R at POMS.

Impact of Real-Time Pricing and Residential Load Automation on Distribution Systems With D Chassin, C Rivetta, and J Sweeney, *Energy Policy*, vol. 184, January 2024, 113906.

Do Retailers Have Efficient Incentives to Invest in Public Charging Stations for Electric Vehicles?

With N Astier, Energy Economics, 2023, vol.124, 106777, http://ssrn.com/abstract=4291679.

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.

# PRESENTATIONS AT CONFERENCES

ACC, AWEEE, CESifo Energy & Climate, ECIS, IEEE PES GM, MCEE, MSOM, VfS, WITS

# **REFEREE ACTIVITIES**

**Journals:** Nature Sustainability, Environmental and Resource Economics, Applied Energy, Journal of Climate Finance, Electronic Commerce Research and Applications, BISE

**Conferences:** ACC, ECIS, IEEE PES GM, YEEES, DACH Energy Informatics, eACM, eEnergy **Technical Program Committee:** CESifo Junior Workshop in Big Data, DACH Energy Informatics, eACM, eEnergy

# AWARDS & THIRD-PARTY FUNDING

'Bridge Project' on 'Determinants of Individual Mobility Choices'	04/2024 - 03/2025
of ifo Institute (98,155 EUR)	
LMU Postdoctoral Fellowship under the Marie Skłodowska-Curie Actions program	11/2020 - 03/2023
of the European Union (own position $+$ 22,400 EUR)	
"Adolf Lampe" award of the Department of Economics at Albert Ludwig University, Frei	iburg <i>10/2021</i>
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 (Ludwig Maximilian University of Munich, Stanford University, Albert Ludwig University of Freiburg)

## MEMBERSHIPS

Verein für Socialpolitik, CESifo network, dialog e.V., Alumni der Studienstiftung 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)