

Curriculum Vitae Marion Ott

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Contact

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Research Department “Market Design”
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Current appointment

2021 – present Senior Researcher & Deputy Head, Research Department “Market Design”, ZEW Mannheim

Past appointments

2019 – 2021 Advanced Researcher, Research Department “Market Design”, ZEW Mannheim
2016 – 2017 Acting Professor of the Empirical Economics Research Unit (W2), RWTH Aachen University
2011 – 2019 Junior Professor of Game Theory and Behavioral Economics, RWTH Aachen University
2010 – 2011 Postdoctoral scholar, RWTH Aachen University, Prof. Thomas Kittsteiner
2003 – 2010 Research associate, Karlsruhe Institute of Technology (KIT), Prof. Siegfried K. Berninghaus
2003 – 2008 Member of the SFB 504, Mannheim University

Education

2011 – 2019 Junior Professor, RWTH Aachen University, successful mid-evaluation after three years
2009 Dissertation, Dr. rer. pol. (economics), University of Karlsruhe, primary adviser: Siegfried K. Berninghaus
2002 Diploma in Business Engineering (Diplom-Wirtschaftsingenieur), University of Karlsruhe

International research experience

2013 Visiting scholar, Stanford University, Paul Milgrom (Apr 2013–Jul 2013)
2009 – 2010 Visiting scholar, Stanford University, Paul Milgrom (Nov 2009–Apr 2010)

Research interests

Topics Market design, auctions, electricity markets, economic networks
Methods Game theory, experimental economics, behavioral economics

Publications in refereed journals

Congestion Management Games in Electricity Markets, with Karl-Martin Ehrhart, Anselm Eicke, Lion Hirth, Fabian Ocker, Ingmar Schlecht, and Runxi Wang, **The Energy Journal**, accepted.

Combinatorial auctions for renewable energy – potentials and challenges, with Karl-Martin Ehrhart, Stefan Seifert, and Runxi Wang, **Energy Policy** 186, 113988, 2024.

Competing Combinatorial Auctions, with Thomas Kittsteiner and Richard Steinberg, **Information Systems Research** 33(4), 1130–1137, 2022.

Economic games: an introduction and guide for research, with Isabel Thielmann, Robert Böhm, and Benjamin E. Hilbig, **Collabra: Psychology** 7(1), 19004, 2021.

Impact of time pressure on software quality: A laboratory experiment on a game-theoretical model, with Dirk Basten, Marcel Müller, Oleg Pankratz, and Christoph Rosenkranz, **PLOS ONE** 16(1): e0245599, 2021.

Bidding strategies in Austrian and German balancing power auctions, with Karl-Martin Ehrhart and Fabian Ocker, **Wiley interdisciplinary reviews / Energy and Environment** 7(6), e303, 2018.

Auction fever: Rising revenue in second-price auction formats, with Karl-Martin Ehrhart and Susanne Abele, **Games and Economic Behavior** 92, 206–227, 2015.

Forward-Looking Behavior in Hawk-Dove Games in Endogenous Networks: Experimental Evidence, with Siegfried K. Berninghaus and Karl-Martin Ehrhart, **Games and Economic Behavior** 75(1), 35–52, 2012.

Evolution of Networks – An Experimental Analysis, with Siegfried K. Berninghaus, Karl-Martin Ehrhart, and Bodo Vogt, **Journal of Evolutionary Economics** 17(3), 317–347, 2007.

A Network Experiment in Continuous Time: The Influence of Link Costs, with Siegfried K. Berninghaus and Karl-Martin Ehrhart, **Experimental Economics** 9(3), 237–251, 2006.

Monographs

Second-Price Proxy-Auctions in Bidder-Seller Networks, **Dissertation**, University of Karlsruhe, 2009.

Publications in other journals

Seebeben der Stärke 12,6: Die rekordbrechende deutsche Offshore-Wind-Auktion, with Karl-Martin Ehrhart, Stefan Seifert, and Runxi Wang, **Energiewirtschaftliche Tagesfragen** 1–2, 20–23, 2024.

Effiziente und faire Verteilung von Lebensmittelspenden, with Klein, T., **Wirtschaftsdienst** 103(8), 560–563, 2023.

Strategisches Verhalten im marktbasieren Redispatch: Ergebnisse einer spieltheoretischen Analyse, with Ehrhart, K.-M., Eicke, A., Hirth, L., Ocker, F., Schlecht, I., and Wang, R., **Energiewirtschaftliche Tagesfragen** 1–2, 57–59, 2023.

Erneuerbare Energien effizient und wirksam fördern, with Haucap, J., Kühling, J., Amin, M., Brunekreeft, G., Fouquet, D., Grimm, V., Gundel, J., Kment, M., Ketter, W., Kreusel, J., Kreuter-Kirchhof, Ch., Liebensteiner, M., Moser, A., Rehtanz, Ch., Wetzel, H., Meinhof, J., Wagner, M., Borgmann, M., Stephanos, C., **Wirtschaftsdienst** 102(9), 694–702, 2022.

Analyse des neu eingeführten Regelarbeitsmarktes, with Ehrhart, K.-M., Ocker, F., **Energiewirtschaftliche Tagesfragen** 3, 48–50, 2021.

Wirtschaftsnobelpreis: Auktionen in Theorie und Anwendung, with Ehrhart, K.-M., **Zeitschrift für das gesamte Kreditwesen** 22, 1092–1093, 2020.

Book chapters

Ein Strommarktdesign 2030–2050 zur Schaffung von langfristigen Anreizen für Energieflexibilität, with Bichler, M., Buhl, H.-U., Ebinger, K., Ganz, K., Hanny, L., Kern, T., Knörr, J., Neuhoff, K., Ober, S., Richstein, J., Sitzmann, A., Weibelzahl, M., Zilke, P. In: Sauer, A., Buhl, H.-U., Mitsos, A., Weigold, M. (eds.): *Energieflexibilität in der deutschen Industrie*. Band 2: Markt- und Stromsystem, Managementsysteme und Technologien energieflexibler Fabriken, Fraunhofer Verlag, Chapter A.1 3, 46–63, 2022.

Market Success: The Quest for the Objectives and Success Factors of Markets, with Gimpel, H., Hanny, L., Wagner, J., Weibelzahl, M., Bichler, M., and Ober, S. In: Gimpel, H., Krämer, J., Neumann, D., Pfeiffer, J., Seifert, S., Teubner, T., Veit, D. J., Weidlich A. (eds.): *Market Engineering: Insights from Two Decades of Research on Markets and Information*, Springer, 21–44, 2021.

Auctions, Information, and New Technologies, with Ehrhart, K.-M. In: Kouzelis, G., Pournari, M., Stöppler, M., Tselfes V. (eds.): *Knowledge in the New Technologies*, Peter Lang Verlagsgruppe, Bern, 2005.

Policy papers

Creating Investment Incentives, Providing Reserve Capacity: options for the market integration of renewable energy (Series on Science-Based Policy Advice). acatech/Leopoldina/Akademienunion (eds.), ISBN: 978-3-8047-4426-4, DOI: 10.48669/esys_2024-3, 2024.

Mit Digitalisierung gegen Lebensmittelverschwendung, with Klein, T., ZEW Policy Brief No. 23-09, 2023.

Investitionsanreize setzen, Reservekapazitäten sichern: Optionen zur Marktintegration erneuerbarer Energien (Schriftenreihe zur wissenschaftsbasierten Politikberatung). acatech/Leopoldina/Akademienunion (Hrsg.), ISBN: 978-3-8047-4425-7, DOI: 10.48669/esys_2023-4, 2023.

Strommarktdesign 2030: Die Förderung der erneuerbaren Energien wirksam und effizient gestalten (Impuls), with Haucap, J., Kühling, J., Amin, M., Brunekreeft, G., Fouquet, D., Grimm, V., Gundel, J., Kment, M., Ketter, W., Kreusel, J., Kreuter-Kirchhof, Ch., Liebensteiner, M., Moser, A., Rehtanz, Ch., Wetzels, H., Meinhof, J., Wagner, M., Borgmann, M., Stephanos, C. Akademienprojekt „Energiesysteme der Zukunft“ (ESYS), 2022.

Electricity Market Design 2030–2050: Shaping Future Electricity Markets for a Climate-Neutral Europe, with Ahunbay, M., Ashour Novirdoust, A., Bhuiyan, R., Bichler, M., Bindu, S., Bjørndal, E., Bjørndal, M., Buhl, H. U., Chaves-Avila, J. P., Gerard, H., Gross, S., Hanny, L., Knörr, J., Köhnen, C. S., Marques, L., Monti, A., Neuhoﬀ, K., Neumann, C., Ocenic, E., Pichlmeier, M., Richstein, J. C., Rinck, M., Röhrich, F., Röhrig, P. M., Sauer, A., Strüker, J., Troncia, M., Wagner, J., Weibelzahl, M., Zilke, P., Whitepaper, DOI: 10.24406/fit-n-644366, 2021.

Electricity Market Design 2030–2050: Moving Towards Implementation, with Ashour Novirdoust, A., Bhuiyan, R., Bichler, M., Buhl, H. U., Fridgen, G., Fugger, C., Gretschno, V., Hanny, L., Knörr, J., Neuhoﬀ, K., Neumann, C., Richstein, J. C., Rinck, M., Röhrich, F., Schöpf, M., Sitzmann, A., Wagner, J., Weibelzahl, M., Whitepaper, DOI: 10.24406/fit-n-640928, 2021.

Ein flexibles Vergütungskonzept für Mediziner hilft, Herdenimmunität gegen COVID-19 zu erreichen, with Gretschno, V., ZEW policy brief no. 21-03, 2021.

Electricity Spot Market Design 2030–2050, with Ashour Novirdoust, A., Bichler, M., Bojung, C., Buhl, H. U., Fridgen, G., Gretschno, V., Hanny, L., Knörr, J., Maldonado, F., Neuhoﬀ, K., Neumann, Ch., M., Richstein, J. C., Rinck, M., Schöpf, M., Schott, P., Sitzmann, A., Wagner, Johannes, Wagner, Johnathan, Weibelzahl, M., Whitepaper, DOI: 10.24406/fit-n-621457, 2021.

Endogene Rationierung in Ausschreibungen für erneuerbare Energien: Verdrängung von Angebot statt Schaffung von Wettbewerb, with Ehrhart, K.-M. and Hanke, A.-K., ZEW-Kurzexpertise 19-06, 2019.

Conference presentations

Conference on Mechanism and Institution Design, Budapest	2024
IFN Stockholm Conference 2024: Sustainable Energy Transition, Vaxholm	2024
2nd Conference Decentralized Energy Systems, Rouen	2024
Economics of Public Procurement Workshop, ZEW Mannheim	2023
GAMES World Congress of the Game Theory Society	2012, 2016, 2021
INFORMS Annual Meeting	2011–2014, 2017–2021
Conference on Mechanism and Institution Design	2020
DICE-ZEW Winter School	2020
Jahrestagung des Vereins für Socialpolitik	2011, 2013, 2014, 2017–2020
EEA/ESEM	2004, 2007, 2012, 2016, 2018
SABE/IAREP Conference	2006, 2018
International ESA Meeting	2004, 2005, 2018

Maastricht Behavioral and Experimental Economics Symposium M-BEES	2017
European ESA Meeting	2006, 2016
Nordic Conference on Behavioral and Experimental Economics NCBEE	2016
Internationale Jahrestagung der Gesellschaft für Operations Research	2014
International Federation of Operational Research Societies IFORS	2014
Ofcom-LSE Conference „Combinatorial Auctions for Spectrum: State of the Art“	2013
The Bay Area Behavioral and Experimental Economics Workshop	2013
Experimental Economics Workshop, Opening experimental laboratory AIXperiment	2012
Royal Economic Society Annual Conference	2011
Stony Brook International Conference on Game Theory	2007
Ringberg Workshop of the Max Planck Institute for Economics	2005
International Meeting on Experimental and Behavioral Economics IMEBE	2004

Seminar presentations

ENS Paris-Saclay (2022), TUM Heilbronn (2020), Karlsruhe Institute of Technology (2020, 2014), Bayreuth University (2018, 2014), University of Cologne (2015), Maastricht University (2015), London School of Economics (2013), LMU Munich (2012), University of Birmingham (2011), Stanford University (2010), CUNY Graduate Center New York (2010), Mannheim University (2007, 2003), University of Magdeburg (2005)

Refereeing

Journals	Applied Economics Letters, Applied Energy, Bulletin of Economic Research, Econometrica, Economic Inquiry, Economic Theory, Energy Policy, European Journal of Operational Research, Experimental Economics, Games, Games and Economic Behavior, German Economic Review, Information Systems Research, International Economic Review, Journal of Behavioral and Experimental Economics, Journal of Economic Behavior & Organization, Journal of Economics, Journal of Economic Literature, Journal of Economic Theory, Journal of Evolutionary Economics, Journal of Mathematical Economics, Management Science, Naval Research Logistics, PLOS ONE, Quantitative Economics, Review of Industrial Organization
Proposals	German Science Foundation (DFG), National Science Foundation (NSF), Swiss National Science Foundation (SNF)
Conferences	European Conference on Information Systems (ECIS 2013, ECIS 2015)

Organization of conferences and seminars

Decarbonization Seminar, Mannheim, MISES at University of Mannheim and ZEW, since 2021

Virtual Market Design Seminar, virtual, ENS Paris-Saclay, University of Cologne, and ZEW, since 2020

4th European Workshop on Market Design (2024 EWMD) at Rice Global Paris Center, Paris, ENS Paris-Saclay, Rice University, University of Cologne, and ZEW, 2024

SynErgie-Workshop on Electricity Market Design, ZEW Mannheim (virtual), TUM, FIM/FIT, and ZEW, 2021

Procurement Design Session at 2021 INFORMS Annual Meeting in Anaheim, CA

Organization of a session at the OR 2014 (international annual meeting of the German society for OR)

Research Seminar in Economics, RWTH Aachen University, 2011–2019

Conference on *Recent developments in strategic network formation*, Mannheim, 2005

Awards and memberships

Member of the working group „Electricity Market of the Future“ in the project “Energy Systems of the Future” (ESYS) of the Union of the German Academies of Sciences and Humanities, since March 2021

KIT dissertation award 2010

Third-party funding and projects

TafelConnect, funded by the Federal Ministry of Food and Agriculture (BMEL), 10/2023–09/2026.

Kopernikus project *SynErgie 3*, funded by the Federal Ministry of Education and Research (BMBF), 10/2023–06/2026.

Conducting scientific studies for the evaluation of strategic bidding and gaming (funded by TenneT GmbH, as part of uniT-e², funded by the Federal Ministry for Economic Affairs and Climate Action (BMWK)), Neon Neue Energieökonomik, Takon, ZEW, 01/2022–12/2024.

Market design for the integration of renewable energy sources: flexible demand-side adaption and supply-side support, funded by ZEW, 05/2020–05/2021.

Kopernikus project *SynErgie 2*, funded by the Federal Ministry of Education and Research (BMBF), 11/2019–06/2023.

Market design for food donations, funded by the Federal Ministry of Food and Agriculture (BMEL), 03/2019–12/2022.

Competing combinatorial auctions: Theory and experiments, DFG grant number OT 487/2-1, 09/2015–08/2017.

The influence of scarcity in interactive decision situations: Experiments and theory, Start-Up Grant, RWTH Aachen University, 04/2014–06/2015.

Equilibria and properties of sealed-bid combinatorial auctions, DFG research scholarship for stay abroad at Stanford University 2013, grant number OT 487/1-1 (approved).

KHYS scholarship for a stay abroad at Stanford University 2009.

SFB 504: Rationality concepts, decision behavior, and economic modelling, subproject C4, University of Mannheim, project member 01/2003–12/2008.

Consulting and commissioned reports

Future energy market design – Design elements of a competitive capacity market model. ZEW. Report, Monopolies Commission, 2023.

Analysis of the EU target market design for balancing services, BBG und Partner, KIT, Takon, TenneT, ZEW. Report, BMWK, 2022.

Analysis of the newly introduced balancing energy market, KIT, Takon, TenneT, ZEW. Report, BMWi, 2021.

Justification and specification of maximum and minimum balancing energy prices, KIT, Takon, ZEW. Report, ENTSO-E, 2021.

The use of auction mechanisms in the climate, environmental and energy aid guidelines, technical meeting with Chief Competition Economist Team of European Commission's DG COMP, external consultant for the BMWi, October 2021.

Member of a consulting team for a bidder in the German spectrum auction, 2015.

Teaching

Mannheim University

Market design for the energy transition, seminar course, M.Sc. level, fall 2021

RWTH Aachen University

Lectures and tutorials

- *Game theory*, lecture & tutorial, M.Sc. level, winter terms 2011/12–2018/19
- *Information economics*, lecture & tutorial, M.Sc. level, summer terms 2011, 2015–18
- *Econometrics*, lecture, M.Sc. level, in English, winter 2016/17
- *Introductory econometrics*, lecture, B. Sc. level, winter 2016/17
- *Game theory*, lecture & tutorial, Ph.D. level (MAGKS inter-university graduate program), winter 2012/13
- *Microeconomics I*, two tutorials, B.Sc. level, winter term 2010/11

Project and seminar courses

- *Current topics in economics and management II*, project course, B.Sc. level, summer 2014
- *Behavioral and experimental economics: selected topics*, seminar course, M.Sc. level, summer 2012

Theses: Supervision of bachelor's and master's theses, second adviser to a PhD student

Stanford University

Econ203N: Game theory, imperfect competition and other applications, lecture, Ph.D. level, winter quarter 2010

Karlsruhe University (as a research assistant)

Seminars (diploma level)

- *Connections – an economic view on networks*, summer 2008
- *Economic paradoxes and anomalies*, winter 2007/08
- *Two-sided markets and matching models*, winter 2006/07
- *Auction experiments*, winter 2005/06
- *Economic and social networks*, summer 2005
- *Decision-making under uncertainty*, winter 2004/05
- *Economic and social networks*, summer 2004

Tutorials (diploma level)

- *Economic theory of uncertainty*, summer terms 2006–2008
- *Economic incentives in markets and firms*, winter terms 2003/04–2006/07

Member of dissertation committees at RWTH Aachen University, at KU Leuven, and at Maastricht University