

Curriculum Vitae

DR. MARIE LISA KOGLER, BSc M.Sc.
(PREVIOUS FAMILY NAME: KAPPELLER)

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Google Scholar: <https://scholar.google.at/citations?hl=de&user=unVzpIoAAAAJ>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57207661217>

Research Gate: <https://www.researchgate.net/profile/Marie-Kogler>

Marie L. Kogler is a systems scientist specializing in applied computational methods. She holds a doctoral degree in natural sciences, earning the Award of Excellence for best dissertation in 2020, and a master's degree in physics from Humboldt University of Berlin. In her research, she focuses on social-environmental systems, particularly on sustainability issues related to the long-term stability and resilience of communication and climate-friendly actions. Dr. Kogler's overarching goal is to advance two main research focuses: promoting solution-oriented approaches in the climate debate and assessing the effectiveness of certain widely discussed solutions, such as those concerning air travel. She employs methods from computational social sciences, natural language processing (NLP), text mining, and data sciences in her work. Furthermore, she actively contributes to her research community, serves as an ARQUS ambassador for open sciences, and has been teaching at the University of Graz since 2017.

Main research areas

systems sciences, computational modelling, artificial societies, stability and resilience, critical tipping, early-warning signals, network analysis, natural language processing, text mining, topic modelling, sentiment analysis, social contagion, data analysis, empirical data integration to modelling, model verification, formalization methods from verbal models to mathematical models, agent-based modeling, equation-based modeling, data mining and data integration, timeline analysis, policy acceptance, emotions and anxiety-related responses, emission calculation, green mobility, climate skepticism, well-being, games, interdisciplinarity, transdisciplinarity, open sciences

Recent Academic employment

Since	Postdoctoral Researcher
09/2020	University of Graz, Austria, Department of Environmental Systems Sciences
06/2016 –	Doctoral Student (Scholarship) and Lecturer
08/2020	University of Graz, Austria, Department of Environmental Systems Sciences

Education

Doctorate in Natural Sciences, Dr. rer. nat. (2017 – 2020)

Department of Environmental Systems Sciences, University of Graz, Austria

Thesis: Emergence of collective behavior on complex networks: simulation of agents and artificial societies with application focus on environmental decision-making

Supervisor	Univ.-Prof. Manfred Füllsack, University of Graz, Dep. of Environmental Systems Science, System Sciences
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Referee 2	Prof. Dr. Petra Ahrweiler, Johannes Gutenberg University Mainz, Germany, Institute of Sociology, Sociology of Technology and Innovation / Social Simulation
Referee 3	Univ.-Prof. MMag. Dr.phil. Kubicek Bettina, Department of Psychology, Work and organizational psychology

Master of Science in Physics, M.Sc. (2011 – 2014)

Department of Physics, Humboldt University of Berlin

Thesis: Coherence-incoherence patterns in oscillator networks with symmetry-breaking nonlocal coupling

Supervisor	Prof. Dr. Jürgen Kurths, Humboldt University of Berlin, Germany, Department of Physics, Nonlinear Dynamics, Potsdam Institute for Climate Impact Research
Co-Supervisor	Prof. Dr. Dr. h.c. Eckehard Schöll, PhD, Technical University Berlin, Germany, Institute of Theoretical Physics, Nonlinear Dynamics and Control

Bachelor of Science in Technical Physics, BSc (2011)

Department of Physics, Technical University of Vienna, Austria

Thesis: Technical details of a filter system for short-time neutron analysis

Supervisor	Ao.Univ.-Prof.i.R. Dr Saleh Ismail TU Vienna, Institute of Nuclear Physics, Environmental analysis and radiochemistry
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Project Acquisition

04/2024	REASON – Responses to threat- and solution-oriented climate news; Role: Project lead , – work package lead for computational methods and synergy of results; Funding: Principal
06/2026	Investigator Project by Austrian Science Fund (FWF), €404.374,42; Project Partners: Uni Graz, Medical University Vienna, University Vienna, University Koblenz-Landau; Grand DOI: 10.55776/P37293 https://www.fwf.ac.at/forschungsradar/10.55776/P37293
01/2024	Wholesome Gaming – Identifying positive human-media interactions using community – trace data; Role: Project Co-Lead ; Funding: Bridge-PhD Complexity of Life in Basic
12/2027	Research and Innovation Call 2022, University of Graz, €211.574,79; Project Partners: University of Graz, Department of Psychology, Department of Env. Systems Sciences
02/2022	TRANSFLIGHT – Shaping the future of air travel; Role: Work package lead for emission – modelling; Funding: Austrian Climate Research Program (ACRP), 13th call, €299.936,00;
08/2024	Project Partners: Uni Graz, Wegener Center, Uni Bergen, Norway

Awards

2021	Nominations for the Teaching Awards "Teaching: Excellent!" and "Digital Teaching: Excellent!" 2020/21, University of Graz
2020	Award of Excellence for best dissertations of the academic year 2020, awarded by the Federal Ministry of Education, Science and Research (BMBWF) Austria (€3.000)

Teaching

Courses

Since 2020	Calculus for Systems and Environmental Sciences, University of Graz
Since 2020	Linear Algebra for Environmental System Sciences, University of Graz
2017 – 2020	Applied Systems Sciences I, University of Graz
2017 – 2019	Practical Exercises: USW Computational Basics, University of Graz

Further Engagement

Textbook	Mathematical Basics for Environmental System Scientists (Springer Verlag)
Teaching Award	Student nomination for Linear Algebra course in 2020/21

Conferences & Presentations

2024	Data Power Conference 2024, Uni Graz, Austria (Paper, Talk)
2023	Scientific Computing 2023, TU Graz, Austria (Paper)
2023	Klimatag, Montanuniversity Leoben, Austria (Poster)
2023	NLP & Text Mining COLIBRI Workshop, University of Graz, Austria (Chair, Host)
2022	Österreichischer Wissenschaftstag, Baden, Austria
2022	Social Simulation Conference 2022, Milano, Italy (Paper, Talk)
2021	Brain, Behavior & Society Springschool, Graz, Austria (Talk)
2021	Österreichischer Wissenschaftstag, Baden, Austria
2019	Social Simulation Conference 2019, Mainz, Germany (Paper, Talk)
2019	K3 Congress on climate change, communication and society, Karlsruhe, Germany (Workshop)
2018	Social Simulation Conference 2018, Stockholm, Sweden (Talk)
2017	Social Simulation Conference 2017, Dublin, Ireland (Paper, Talk)

Media presence

Report: „Klimanachrichten im Fokus an der Uni Graz“, [APA, news.at] (2024)

<https://www.news.at/a/klimanachrichten-fokus-uni-graz-13350692>

Report: „Resignation durch negative Klimaberichte“, [red, steiermark.ORF.at/Agenturen] (2024)

<https://steiermark.orf.at/stories/3250614/>

Report: „Angst oder Anpacken?“, [Pichler Gudrun, Press Uni Graz] (2024)

<https://www.uni-graz.at/de/neuigkeiten/angst-oder-anpacken-wie-klimaberichterstattung-in-der-gesellschaft-wirkt/>

Report: „Fünf vor fünf vor zwölf“, [Kropshofer Katharina, Falter.at] (2023)

<https://www.falter.at/zeitung/20230207/fuenf-vor-fuenf-vor-zwoelf>