

Dr. Daniel Huppmann

International Institute of Applied Systems Analysis (IIASA)
Schlossplatz 1, 2361 Laxenburg, Austria
huppmann@iiasa.ac.at | www.iiasa.ac.at/staff/daniel-huppmann

Twitter [@daniel_huppmann](https://twitter.com/daniel_huppmann)
Mastodon [@daniel_huppmann@mastodon.social](https://mastodon.social/@daniel_huppmann)
GitHub [@danielhuppmann](https://github.com/danielhuppmann)

March 29, 2023

RESEARCH PROFILE	Working on integrated assessment scenarios of climate-change mitigation in the context of the Sustainable Development Goals (SDGs). Dedicated to open-source scientific software. #freethemodels for open science!
HIGHLIGHTS	Senior Research Scholar at the International Institute for Applied Systems Analysis (IIASA) in the “Energy, Climate, & Environment” program since October 2015, Coordinator of the Research Theme Scenario Services & Scientific Software ; Co-Chair of the Second Austrian Assessment Report (AAR2) by the <i>Austrian Panel on Climate Change (APCC)</i> , to be published in June 2025; Author & Chapter Scientist of the Special Report on Global Warming of 1.5 °C (SR15) by the <i>Intergovernmental Panel on Climate Change (IPCC)</i> , published in October 2018; Lecturer at TU Wien for the course <i>Open Source Energy System Modelling</i> .
ACADEMIC LEADERSHIP	Work package leader in the Horizon 2020 projects <i>openENTRANCE</i> (openentrance.eu) and <i>European Climate & Energy Modelling Forum (ECEMF)</i> (ecemf.eu); Board Member of the Climate Change Center Austria (CCCA) ; Member of the <i>Fachkollegium</i> of the Austrian Section of the Scientists For Future ; Coordinator for the scenario ensemble compilation underpinning the quantitative assessment in the IPCC SR15, published as the <i>IAMC 1.5 °C Scenario Explorer hosted by IIASA</i> (data.ece.iiasa.ac.at/iamc-1.5c-explorer). i
PREVIOUS EXPERIENCE	Positions at the Whiting School of Engineering , The Johns Hopkins University, Baltimore, and the think-tank Resources for the Future , Washington, DC, spring 2015; Research Associate at the German Institute for Economic Research (DIW Berlin) in the department “Energy, Transportation, Environment”, October 2012–September 2015; Energie-Control Austria (Vienna, March–April 2012), the Austrian energy regulator, Department for Competition and Regulation.
PUBLICATIONS (SELECTED)	J. Rogelj, D. Huppmann, et al. A new scenario logic for the Paris Agreement long-term temperature goal. <i>Nature</i> 573(7774):357-363, 2019 doi: 10.1038/s41586-019-1541-4 D. Huppmann et al. The MESSAGEix Integrated Assessment Model & the ix modeling platform <i>Environmental Modelling & Software</i> , 112:143-156, 2019 doi: 10.1016/j.envsoft.2018.11.012 D. Huppmann et al. A new scenario resource for integrated 1.5 °C research. <i>Nature Climate Change</i> , 8:1027-1030, 2018 doi: 10.1038/s41558-018-0317-4
HONORARY ACTIVITIES	Member of IAESTE , an international traineeship exchange program for students of engineering and natural sciences to gain practical experience abroad; Participant and member of the Austrian organizing committee of the Model European Parliament , a forum for young students interested in politics and the European Union.

Curriculum Vitae – Dr. Daniel Huppmann

CURRENT	Senior Research Scholar at the International Institute for Applied Systems Analysis (IIASA) in the “Energy, Climate, & Environment” program since October 2015, Coordinator of the Research Theme Scenario Services & Scientific Software .
PREVIOUS POSITIONS	Research Associate at the German Institute for Economic Research (DIW Berlin) in the department “Energy, Transportation, Environment”, October 2012–September 2015; Postdoctoral Fellow at the Whiting School of Engineering , The Johns Hopkins University, Baltimore, January–June 2015; Visiting Fellow at Resources for the Future , Washington, DC, in spring 2015.
EDUCATION	Doctoral dissertation defended in June 2014 at Berlin University of Technology for the academic degree <i>Dr.rer.oec.</i> (equiv. PhD in Economics, grade: <i>Summa cum laude</i>), written within the DIW Berlin Graduate Center of Economic and Social Research ; Graduated as <i>Diplom-Ingenieur</i> (Dipl.-Ing., equiv. MSc, 5-year degree) in Mathematics from Vienna University of Technology in November 2010; Austrian high school final exam (<i>Matura</i>) passed with distinction at the Theresianische Akademie Wien in June 2003.
PROFESSIONAL EXPERIENCE	Energie-Control Austria (Vienna, March–April 2012), the Austrian energy regulator, Department for Competition and Regulation; tasked with implementing a short-term electricity spot price forecast model; ACTED (Tajikistan, July–August 2006), a development cooperation agency; in charge of two projects on microfinance and market surveying; Deloitte (Paris, July–October 2005), an international financial services and audit firm; working in the EMEA Learning and Development department in Paris; responsible for preparation and logistics of training seminars; Government Accountability Project (Washington, DC, June–July 2004), an NGO and law firm focused on freedom of speech and whistleblower protection.
ACADEMIC LEADERSHIP	Work package leader in the Horizon 2020 projects <i>openENTRANCE</i> (openentrance.eu) and <i>European Climate & Energy Modelling Forum</i> (ecemf.eu); Board Member of the Climate Change Center Austria (CCCA) ; Member of the <i>Fachkollegium</i> of the Austrian Section of the Scientists For Future ; Advisory board member of the “Energy Gateway” of the <i>F1000Research</i> Open Research publishing platform (f1000research.com/energy); Topical editor for “Integrated assessment modeling” of the EGU journal <i>Geoscientific Model Development</i> (gmd.copernicus.org); Author of the Summary for Policymakers and Chapters 2, 4 & 5 of the Special Report on Global Warming of 1.5°C (SR15) by the <i>Intergovernmental Panel on Climate Change (IPCC)</i> , published in October 2018; Project lead for the scenario ensemble compilation underpinning the quantitative assessment in the IPCC SR15, published as the <i>IAMC 1.5°C Scenario Explorer hosted by IIASA</i> (data.ece.iiasa.ac.at/iamc-1.5c-explorer/); Presentation at the UN <i>Climate Change Conference COP24</i> , Katowice, Poland, in December 2018 as part of the PCCB Capacity-Building Hub ; Officer for Communication & Outreach of the INFORMS Section “Energy, Natural Resources, and the Environment” (ENRE) from 2016 until 2018; Conference Vice-Chair of the <i>10th Trans-Atlantic Infraday Conference</i> , held at the Federal Energy Regulatory Commission (FERC), Washington, D.C., November 2016.

ADVISORY POSITIONS	Member of the Advisory Board of the reFUEL project funded by an <i>ERC Starting Grant</i> (Prof. Johannes Schmidt) at the University of Applied Life Sciences, Vienna (BOKU).
HONORS & AWARDS	<p>Winner of the <i>2016 Young Researcher Prize</i> (with Sauleh Siddiqui), awarded by the INFORMS Section “Energy, Natural Resources, and the Environment” (ENRE);</p> <p>Conference Presentation Award for Young Researchers (<i>Vortragsprämie</i>) for a talk given at the INFORMS Annual Conference 2013 in Minneapolis, endowed by the German Bundesbank and awarded by the Verein für Socialpolitik, in December 2013;</p> <p>Funding grant for a 10-week research assistant position for a BSc student from the United States within the <i>RISE program</i> (Research Internships in Science and Engineering) by the German Academic Exchange Service (DAAD), in June–August 2013;</p> <p>Research grant and dissertation sponsorship awarded by Energie-Control Austria within the special series “10 years of e-control”, in May 2011;</p> <p>“Wirtschaft-Ethik-Religion” award (<i>business-ethics-religion</i>) by the Federation of Austrian Industry for a study on corporate social responsibility (CSR) for multinational enterprises written as part of the Matura examinations, awarded in October 2003.</p>
TEACHING EXPERIENCE	<p>Lecturer at TU Wien since 2019 for the course <i>Open Source Energy System Modelling</i> (link to TISS);</p> <p>Lecturer/Adjunct Faculty at Webster Vienna Private University, for the course <i>International Affairs: Power & Technology</i>, in the fall semester 2017;</p> <p>Lecturer at the Oppdal PhD Winter School on <i>Stochastic programming in energy</i>, organized by NTNU Trondheim, Department of Industrial Economics & Technology Management (IØT), in March 2016;</p> <p>Lecturer at the InfraTrain Autumn School on <i>One- and two-level energy modelling</i>, organized by the Workgroup on Infrastructure Policy, TU Berlin, in October 2014; Teaching Assistant at the InfraTrain from 2009–2012, for various courses on stochastic dynamic optimization and equilibrium modelling;</p> <p>Lecturer at the Oppdal PhD Winter School on <i>Managing uncertainty in energy infrastructure investments</i>, organized by NTNU Trondheim, IØT, in March 2011.</p>
STUDENT SUPERVISION	<p>Katharina Gruber, PhD at the University of Applied Life Sciences (BOKU), Vienna, co-supervisor & member of the advisory committee;</p> <p>Sebastian Zwickl-Bernhard, PhD candidate at the Technische Universität Wien, supervision & mentoring in the <i>2021 Young Scientist Summer Program (YSSP)</i> at IIASA;</p> <p>Maarten Brinkering, PhD candidate at the University College Cork, supervision & mentoring in the <i>2021 Young Scientist Summer Program (YSSP)</i> at IIASA;</p> <p>Ryan Hanna, PhD candidate at the University of California, San Diego (UCSD), supervision & mentoring in the <i>2017 Young Scientist Summer Program (YSSP)</i> at IIASA;</p> <p>Clara Orthofer, PhD candidate at the Technical University Munich (TUM), supervision & mentoring in the 2016 YSSP at IIASA; winner of IIASA’s <i>2016 Peccei Award</i>;</p> <p>Alex Koberle, PhD candidate at the Energy Planning Program, COPPE/ UFRJ, Brazil, co-supervision & mentoring in the 2016 YSSP at IIASA;</p> <p>Lissy Langer, co-supervision of MSc thesis submitted at TU Berlin in September 2015, written at Johns Hopkins University with financial support by the PROMOS program;</p> <p>Simon Donges, co-supervision of MSc thesis submitted at TU Berlin in June 2015;</p> <p>Benjamin Boldt, co-supervision of MSc thesis submitted at TU Berlin in July 2014;</p> <p>Lukas Wuttke, co-supervision of BSc thesis submitted at TU Berlin in October 2013;</p> <p>Shayna Rose, at the time undergrad student at Johns Hopkins University, supervision during an internship at DIW Berlin funded by the DAAD RISE program, summer 2013.</p>

REVIEWER	Nature Energy, Nature Climate Change, Energy Economics, Energy Policy, The Energy Journal, European Journal of Operational Research (EJOR), Climatic Change, Networks & Spatial Economics (NETS), Mathematical Methods of Operations Research (MMOR), IEEE Transactions on Power Systems (IEEE TPS), Technological Forecasting & Social Change, Optimization & Engineering
HONORARY ACTIVITIES	<p>Member of IAESTE, an international traineeship exchange program for students of engineering and natural sciences to gain practical experience abroad;</p> <ul style="list-style-type: none"> – <i>National Secretary</i> of IAESTE Austria in 2007, head of the exchange program and representative of the National Committee on the international level; – <i>Board Member</i> of IAESTE A.s.b.l. (IAESTE International) in 2010; <p>Participation in the Model European Parliament, a forum for young students interested in politics and the European Union; President of the General Assembly and head of the organising committee in several national and international sessions;</p> <p>Facilitator and workgroup leader at the <i>Waves of Democracy</i> in Brandbjerg, Denmark, in September 2006, an EU-funded project bringing together students to discuss participatory democracy & citizens' rights.</p>
LANGUAGES	German (native); English (CAE, "A"-grade); French (Berlitz, "1"-grade).
COMPUTER LITERACY	Office (MS Office); Math & programming (GAMS, Python, R, \LaTeX); Graphics (Adobe CS); Collaborative tools (Git, SVN); Web & Database (Java, ORACLE, SQL, HTML 5).