Dr. Sibel Eker

eker@iiasa.ac.at   ORCID

sibeleker.github.io   @sibel_eker

Google Scholar   LinkedIn

EXPERIENCE

Jul 2017 – Present	***International Institute for Applied Systems Analysis (IIASA), Austria***
	Jan 2024 – Senior Research Scholar
	Jul 2019 – Dec 2023 Research Scholar
	Jul 2017 – Jun 2019 Postdoctoral Research Fellow
Aug 2021 – July 2025	***Nijmegen School of Management, Radboud University, Netherlands***
	May 2024 – Jul 2025 Associate Professor of System Dynamics
	Aug 2021 – May 2024 Assistant Professor of System Dynamics
Aug 2020 – Jul 2021	**Senior Researcher**
	Climate Interactive, Washington DC, USA
Jan 2017 – July 2017	**Postdoctoral Researcher**
	Faculty of Technology, Policy and Management, Delft University of Technology, Netherlands
Feb 2016 – Nov 2016	**Research Associate**
	UCL Institute for Environmental Design and Engineering, University College London, UK

EDUCATION

Sep 2011-Mar 2016	**PhD in Policy Analysis**
	Faculty of Technology, Policy and Management, Delft University of Technology, Netherlands
Jun – Jul 2013	**Visiting student**
	Engineering Systems Division, Massachusetts Institute of Technology (MIT), USA
2009 – 2011	**MSc in Systems Engineering, Policy Analysis and Management**
	Faculty of Technology, Policy and Management, Delft University of Technology, Netherlands
2004 – 2009	**BSc in Industrial Engineering**
	Faculty of Engineering, Bogazici University, Turkey
Jan – July 2008	**Exchange student**
	Industrial Eng. and Innovation Sciences (formerly Operations Management), Eindhoven University of Technology, Netherlands

GRANTS AND FELLOWSHIPS

2024	Starter grant by the Dutch government to new faculty members (*EUR 60K*)
2024	Research fellow at *Institute for Advanced Studies (IAS)* at University of Amsterdam
2023-2026	Co-PI and task leader in *CHOICE* funded by HORIZON-CL5-2022-D1-02-03: Improvement of Integrated Assessment Models in support of climate policies (*EUR 386K* of the total project budget EUR 4.9M)
2023-2025	PI of *Data-driven Understanding of Low-Carbon Lifestyles (LOW-AI)* funded by Office of Naval Research Global (*USD 350K*)
2022-2026	Co-PI and work package leader in *WorldTrans* funded by HORIZON-CL5-2022-D1-02-03: Improvement of Integrated Assessment Models in support of climate policies (*EUR 650K* of the total project budget EUR 4.6M)

2017-2019	IIASA Postdoctoral Fellowship for the research proposal titled "Validation of uncertainty-oriented systems models" (EUR 85K)
2016	Policy Engagement Grant by UCL Public Policy (GBP 10K)
2016	Career Development Fund by UCL Bartlett School (GBP 1K)
2011	Travel grant by TU Delft (EUR 1K)

SCIENTIFIC SERVICE

Editorial

2023 - present	Senior Associate Editor of *Mitigation and Adaptation Strategies for Global Change*
2022	Special issue co-editor for the journal *Frontiers in Sustainability*
2021	Outstanding reviewer award by *Environmental Research Letters*
2021	Topic editor of *Sustainability* (MDPI)
2020 – Present	Associate Editor of *Humanities and Social Sciences Communications* by Springer Nature
2016 - Present	Reviewer for the journals *Nature Climate Change*, *Nature Sustainability, Nature Food, One Earth, Interface Focus (Royal Society), Journal of Cleaner Production, Palgrave Communications, Mitigation and Adaptation Strategies for Global Change*, *Environmental Research Letters, Global Environmental Change, Appetite, Energy Policy, Science of the Total Environment, Sustainability, Environmental Innovation and Societal Transitions, Environmental Modelling and Software, Energy, Applied Sciences, International Journal of Environmental Research and Public Health*
2014 - Present	Reviewer for the annual International System Dynamics Conference

Scientific reviews and committees

2025	Advisory Board member of the Horizon Europe project HYDRA
2024	Reviewer of Horizon Europe projects for European Research Executive Agency
2023-2026	Advisory Board member of the Horizon Europe project KNOWING
2023	PhD examiner of Zahra Janipour, Faculty of Science, Radboud University
2023	Reviewer of grant applications to the Dutch Research Council's (NWO) *Open Competition SSH*
2023	Letten Prize Committee Member, given by Letten Foundation and Young Academy of Norway
2021 - present	Scientific Advisory Committee reviewer, Nijmegen School of Management/ Netherlands
2021	Expert reviewer for the fellowships of the H2020 SEAS project
2020	Reviewer for ERC Consolidator Grant Panel SSH2

Contributions to international reports

2024	Expert contributor to *UNDP Signals Spotlight* report by United Nations Development Program
2024	Author in the International Science Council's position paper titled *From science to action: Leveraging scientific knowledge and solutions for advancing sustainable and resilient development* for the 2024 High-level Political Forum
2023 – present	Lead Author for the *Global Environment Outlook (GEO-7)* by UN Environment Program (to be published in 2025)
2022 - 2023	Chapter Lead in the *Global State of Tipping Points* report led by University of Exeter
2022	Expert reviewer, *Global Sustainable Development Report 2023*, UN DESA
2017 - 2018	Contributor to and reviewer of a global foresight study by Institute for Global Environmental Strategies (IGES) and UN Environment, titled "Society and Lifestyles in 2050: Insights from a Global Survey of Experts"

Others

2022 - 2027	Selected member of Global Young Academy, co-leader the Scientific Excellence Working Group (2022-2024)
2024 -	Selected member of the International Science Council's Global Roster of Experts

SUPERVISION

2025 -	*David Leoncio,* Researcher at IIASA
2024 -	*Ryan Tan,* Researcher at IIASA
2024 - 2025	*Cem Gursan,* Post-doctoral researcher at Radboud University
2024 -	*Sandeep Chowdhary*, Post-doctoral Research Scholar at IIASA
2023 -	*Quanliang Ye,* Post-doctoral researcher at Radboud University
2023 -	*Deepthi Swamy*, Research Scholar at IIASA and PhD candidate at RU
2023-2024	*Anna di Natale*, Postdoctoral Research Scholar at IIASA
2020 -2023	*Qi Liu*, PhD candidate at Sichuan University, Guest Post-doc Researcher at IIASA
2020 -2021	Co-supervising PhD student *Gloria Crabolu* from University of Surrey
2018 -2022	Co-supervising PhD student *Phyllis Kwenda* from University of Kwazulu-Natal

ORGANIZATIONAL ROLES

2024	Coordinator of the master programs *Business Analysis and Modeling* and *European Master in System Dynamics* at Radboud University
2024	Organization of the *IIASA Expert Workshop on Using Social Media Data and Digital Platforms in Climate and Sustainability Research*
2022 – 2023	Board Member of Halkes Women in Science network, Radboud University
2022	Session organizer at Scenarios Forum 2022
2016-2021	Organizer of seven *stakeholder and expert workshops* at UCL, EIT Climate KIC and IIASA (12-30 participants)/ UK, France and Austria
2020	Organizing committee member of the *Annual Meeting of the Society for Decision Making under Deep Uncertainty* (~200 participants)
2019	Organizing the IIASA lecture by Prof. Katharine Hayhoe, *Barriers to Public Acceptance of Climate Science, Impacts, and Solutions* (~60 participants)
2019	Facilitator at the International Symposium on Global Sustainable Development Goals in a Mediatized World, organized by Austrian Academy of Sciences
2014	Organization of the *International System Dynamics Summer School*
2014 – 2015	*Vice President of the Student Chapter of the System Dynamics Society,* organization chair of the 15th (2014) and 16th (2015) PhD Colloquium
2013 - Present	Member of the *System Dynamics Society*, *Society for Decision Making under Deep Uncertainty*

PUBLICATIONS

Journal articles

1. Chowdhary, S., van Ruijven, B., & **Eker, S**. (under review). Emotion and engagement in Reddit climate talk. Preprint: Research Square. https://doi.org/10.21203/rs.3.rs-6975386/v1
2. Di Natale A, Neto J, Gaupp F, **Eker S**. (under review) The Impact of Fridays for Future on Climate Change Attitudes and Behavior on Reddit. Available at SSRN.
3. **Eker S**, Liu Q, Reiter C, Kuhn M, Lutz W (2025). Wellbeing Cost of Carbon. *Global Sustainability*.
4. Moallemi E., Castonguay A., D'Croz D.M., Nelson R. et al. (2025) Complexity and uncertainty in future food system transformation modelling, *Nature Food*.
5. Yang J, Gao L, Guo Z, Moallemi E, **Eker S**, et al. (2025) Integrative Sustainable Development Goal policy portfolios to accelerate global progress towards a more sustainable future: a modelling study. *Lancet Planetary Health*.
6. Lenton T.M., Powell T.W.R., Smith S.R., Geels, F.W., Alkemade, F., Ayoub, M., Barbrook-Johnson, P., Benson, S., Blomsma, F., Boulton, C.A., Buxton, J.E., Constantino, S.M., **Eker, S.** , et al. (2025). A method to identify positive tipping points to accelerate low-carbon transitions and

actions to trigger them. *Sustainability Science*.

7. Ye Q, Liu Q, Swamy D, Moallemi E, Gao L, Rydzak F, **Eker S**. (2024) FeliX 2.0: An integrated model of climate, economy, environment, and society interactions. *Environmental Modeling and Software (179)*.

8. **Eker S**, Lenton T M, Powell T, Scheffran J, Smith SR, Swamy D, Zimm C (2024) Cross-system interactions for positive tipping cascades, *Earth System Dynamics*, 15, 789–800

9. **Eker S,** Wilson C, Hohne N, McCaffrey M, Monaterelo I, Niamir L, Zimm C. (2024) Harnessing social tipping dynamics: A systems approach for accelerating decarbonization. *One Earth, 7 (6), 976 – 988*.

10. Liu Q, Yang J, Gao L, Dong Y, Guo Z, Moallemi E, **Eker S** & Obersteiner M. (2023). Robust sensitivity analysis to uncertainties in environmental and socio-economic scenarios: A perspective from a global socio-ecological system model. *Journal of Cleaner Production* 410, 137244.

11. **Eker S**, Mastrucci A, Pachauri S, van Ruijven B. (2023). Social media data shed light on air-conditioning interest of heat-vulnerable regions and sociodemographic groups. *One Earth* 6(4) 428-440*.*

12. da Silva CFA, Virguez E, **Eker S**, Zdenek CN, et al. (2023) The future of scientific societies. *Science* 380, 30-32 (Letter)

13. Crabolu G, Font X, **Eker S**. (2023) Evaluating Policy Complexity With Causal Loop Diagrams. *Annals of Tourism Research,* 100.

14. Liu Q, Gao L, Guo Z, Moallemi E, **Eker S**, Yang J, Obersteiner M, Bryan B (2023). Robust strategies to end global poverty and reduce environmental pressures, *One Earth* 6(4) 392-408.

15. Kwenda PR, Lagerwall G, **Eker S** , & van Ruijven B (2022). A Mini-Review on the Causes of Poor Household Solid Waste Management in Low-income Developing Countries: a Case Study of Urban Harare City, Zimbabwe *The Journal of Solid Waste Technology and Management*, 48(3), pp. 375-388.

16. Kwenda PR, Lagerwall G, **Eker S** , & van Ruijven B (2022). Identifying the Leverage Points in the Household Solid Waste Management System for Harare, Zimbabwe, Using Network Analysis Techniques *Sustainability*, 14(19), 12405.

17. Li Q, Guo Z, Gao L, Dong Y, Moallemi E, **Eker S**, Yang J, Li X, Obersteiner M & Bryan B. (2022). A review of model-based scenario analysis of poverty for informing sustainability. *Environmental Science & Policy* 137:336-348.

18. Moallemi EA, Hosseini SH, **Eker S**, Gao L, Bertone E, Szetey K, Taylor N, & Bryan BA. (2022). Eight Archetypes of Sustainable Development Goal (SDG) Synergies and Trade-Offs *Earth's Future*, 10, e2022EF002873.

19. Moallemi EA, **Eker S**, Gao L, Hadjikakou M, Liu Q, Kwakkel J, Reed P, Obersteiner M, Guo Z, Bryan B. (2022). Early systems change necessary for catalyzing long-term sustainability in a post-2030 agenda *One Earth*.

20. Moallemi E.A., Gao L., **Eker S** & Bryan B.A. (2022). Diversifying models for analysing global change scenarios and sustainability pathways. *Global Sustainability*, 5 (e7).

21. Moallemi EA, Bertone E, **Eker S**, Gao L, Szetey K, Taylor N, & Bryan BA. (2021). A review of systems modelling for local sustainability. *Environmental Research Letters* 16, 11.

22. Goll D, Ciais P, Amann T, Buermann W, Chang J, **Eker S**, Hartmann J, Li W, Oliveira Garcia W, Strefler J, Tanaka K, Vicca S. (2021) Potential CO2 removal from enhanced weathering by ecosystem responses to powdered rock. *Nature Geoscience* 14, 545–549.

23. **Eker S**, Garcia D, van Ruijven B, Valin H. (2021). Using social media audience data to analyse the drivers of low-carbon diets. *Environmental Research Letters* 16, 074001*.*

24. **Eker S** (2021). Drivers of photovoltaic uncertainty. *Nature Climate Change* 11, 184–185*.*

25. Kwenda P, Lagerwall G, **Eker S,** van Ruijven B. (2021) A mini-review on household solid waste management systems in low-income developing countries: A case study of urban Harare City, Zimbabwe. *Waste Management & Research, 40 (2), 139-153*.

26. Eker S. (2020). Validity and usefulness of COVID-19 models. *Humanities and Social Sciences Communications* 7, 54.

27. **Eker S**, Ilmola-Sheppard, L. (2020). Systems Thinking to Understand National Well-Being from a Human Capital Perspective. *Sustainability* 12 (5): 1931.

28. **Eker S**, Reese G, Obersteiner M (2019). Modelling the drivers of a widespread shift to sustainable diets. *Nature Sustainability* 2: 725-735.

29. **Eker S**, Rovenskaya E, Langan S , & Obersteiner M (2019). Model validation: A bibliometric analysis of the literature. *Environmental Modelling & Software* 117: 43-54.

30. **Eker S**, Rovenskaya E, Obersteiner M, Langan S (2018). Practice and perspectives in the validation of resource management models. *Nature Communications*. 9 (1): 5359.

31. **Eker S**, Kwakkel J (2018). Including robustness considerations in the search phase of Many-Objective Robust Decision Making. *Environmental Modelling and Software* 105: 201-216.

32. **Eker S**, Zimmermann N, Carnohan S, Davies M (2017). Participatory system dynamics modelling for housing, energy and wellbeing interactions. *Building Research & Information* 46 (7):738-754.

33. **Eker S**, van Daalen E, Thissen W (2017). Incorporating stakeholder perspectives into model-based scenarios: Exploring the futures of the Dutch gas sector. *Futures* 93: 27-43.

34. **Eker S**, Zimmermann N (2016). Using Textual Data in System Dynamics Model Conceptualization. *Systems* 4 (3):28.

35. **Eker S**, van Daalen E (2015). A model-based analysis of biomethane production in the Netherlands and the effectiveness of the subsidization policy under uncertainty. *Energy Policy 82*:178-196.

36. **Eker S**, Slinger J, van Daalen E, Yücel G (2014). Sensitivity analysis of graphical functions. *System Dynamics Review* 30 (3):186-205.

37. **Eker S**, van Daalen E (2013). Investigating the effects of uncertainties in the upstream gas sector. *International Journal of System of Systems Engineering* 4 (2):99-139.

Reports & Book Chapters

United Nations Environment Programme (2025). *Global Environment Outlook 7: A future we choose – Why investing in Earth now can lead to a trillion-dollar benefit for all.* Nairobi: United Nations Environment Programme. ISBN 9789280742466 10.59117/20.500.11822/49014.

Constantino et al. (2025) "3.1 Acting on Positive Tipping Points", In Lenton T (Eds.) Global Tipping Points Report 2025.

Gaupp F, **Eker S**. (2024) Climate Activism, Social Media and Behavioural Change: A Literature Review. IIASA Working Paper: WP-24-007.

Eker S et al. (2023) "Positive Tipping Cascades". In Lenton T (Eds.) Global Tipping Points Report.

Eker S, Liu Q, Reiter C, Kuhn M. (2023) [Documentation of global wellbeing dynamics in the FeliX model](). IIASA Report, August 2023.

Kuhn M, Eker S, Reiter C, & Liu Q. (2023). "Global systems analysis for understanding the drivers of sustainable wellbeing". In Lutz W & Pachauri S (Eds.), [Systems Analysis for Sustainable Wellbeing. 50 years of IIASA research, 40 years after the Brundtland Commission, contributing to the post-2030 Global Agenda]() (pp. 61-76). IIASA.

Eker S, Wilson C. (2022) [System Dynamics of Social Tipping Processes](). IIASA Report, March 2022.

Kwakkel J, Eker S, Pruyt E (2016). "How robust is a robust policy? Comparing alternative robustness metrics for robust decision-making." In *Robustness Analysis in Decision Aiding, Optimization, and Analytics*, edited by Michael Doumpos, Constantin Zopounidis and Evangelos Grigoroudis. Springer.

Peer-reviewed conference papers

1. Eker S, Wilson C. (2022). "Social tipping mechanisms for rapid decarbonization". The 40th *International Conference of the System Dynamics Society*. July 2022, Frankfurt, Germany.
2. Eker S (2021). "Societal dynamics of low-carbon lifestyles". The 39th *International Conference of the System Dynamics Society*, Chicago, US.
3. Eker S, Reese G, Obersteiner M (2018). "Meat or vegetarian? - A model-based analysis of the global diet change dynamics." The 36th *International Conference of the System Dynamics Society*, Reykjavik, Iceland.
4. Eker S, Zimmermann N (2016). "Understanding the Mechanisms behind Fragmentation in the Housing Construction and Retrofit." The 34th *International Conference of the System Dynamics Society*, Delft, Netherlands.
5. Eker S, Leston D, Djong J (2014). "Modeling the Dynamics of Canine Rabies and Policy Analysis under Uncertainty." The 32nd *International Conference of the System Dynamics Society*, Delft, Netherlands.
6. Eker S, van Daalen E (2014). "Analyzing the Dynamics of the Bio-methane Production Chain and the Effectiveness of Subsidization Schemes under Uncertainty." The 32nd *International Conference of the System Dynamics Society*, Delft, Netherlands.
7. Eker S, van Daalen E (2013). "A Supply Demand Model for Exploration of the Future of the Dutch Gas Sector." The 31st *International Conference of the System Dynamics Society*, Cambridge, MA USA.
8. Eker S, van Daalen E (2012). "Investigating the Effects of Uncertainties Associated with the Unconventional Gas Development in the Netherlands." Third *International Engineering Systems Symposium*, CESUN 2012, Delft, The Netherlands, 18-20 June 2012.
9. Eker S, van Daalen E (2012). "Uncertainties in the development of unconventional gas production in Europe." 9th *International Conference on the European Energy Market (EEM)*, Florence, Italy.
10. Eker S, van Daalen E (2012). "Uncertainties in the Development of Unconventional Gas in the Netherlands" The 30th *Internaional Conference of the System Dynamics Society*, St. Gallen, Switzerland.
11. Eker S, Slinger J, Yucel G (2011). "Investigating an Automated Method for the Sensitivity Analysis of Functions " The 29th *International Conference of the System Dynamics Society*, Washington, D. C.

Theses

Eker S (2016). Dealing with Uncertainties in the Dutch Gas Sector: An exploratory modeling and analysis approach. PhD Thesis, Delft University of Technology.

Eker S (2011). A Sensitivity Analysis Method for System Dynamics Table Functions. MSc Thesis, Delft University of Technology.

Blog posts & outreach

2024 – Some of the [media coverage]() of my work

2024 – [Tipping Points. Useful or Disturbing?]() Public talk by Radboud Reflects.

2024 - [Understanding the role of the FeliX Model in CHOICE](). CHOICE project website.

2023 - [Using archetypes as a systemic lens to understand the complexity of sustainable development](). Integration and Implementation Insights.

2021 - En-ROADS Climate Action Simulation role-play game (in Turkish). [https://sosyaliklim.org/]().

2021 - [Social Cost of Carbon in En-ROADS](). Climate Interactive blog post.

2021 - [En-ROADS Climate Workshop (in Turkish)]() Ashoka Turkey Social Enterpreneurship Day (with Pinar Oncel, Tuna Ozcuhadar, and others).

2021 - [Exploring the Economic Impacts of Climate Change in En-ROADS](). Webinar by Climate Interactive (with Andrew Jones).

2021 - [Testing the Economic Impact of Climate Change in En-ROADS](). Climate Interactive blog post.

2021 - [En-ROADS Climate Workshop](). Webinar by Climate Interactive (with Adem Delibas).

2020 - [DMDU and Critical Infrastructure Systems](). Decision Making under Deep Uncertainty Society blog post.

2020 - [What did we learn from COVID-19 models?.]() IIASA Nexus Blog.

2019 - [Behind the paper: Modeling the drivers of a widespread shift to sustainable diets](). Nature Sustainability Community blog post.

2019 - [This is not reality](). IIASA Nexus Blog.

2018 - [Systems thinking to better understand the scientific process](). Project Open Up Hub blog post.

TALKS

Invited talks and workshops

1. 2025 – Top-down modeling of social dynamics of low-carbon behavior, AGCI Workshop on Human Behavior in Global Change Models, Aspen Global Change Institute, 3-7 November 2025
2. 2025 – Modelling Suite of the CHOICE Project: Enabling Stakeholder Engagement, Capturing Demand Heterogeneity, and Facilitating Integrated Assessments, 2nd HYDRA Webinar, 31 October 2025

3. 2025 - *Measuring subjective wellbeing through social media*. Annual Meeting of the International EDITS Network, 14-16 October 2025, Laxenburg, Austria.
4. 2025- *Improving the representation of social systems in climate policy models and large scale data on social systems*. University of Graz, Department of Environmental Science, 25 January 2025, online.
5. 2024 – Harnessing social tipping dynamics: How can we benefit from systems science? Lovejoy Symposium 2024. World Wild Life Fund (WWF), 5 December 2024
6. 2024 - The Science of Measuring Sustainability: Going Beyond GDP. World Science Forum. 20-22 November 2024, Budapest
7. 2024 – AI for Climate Change Mitigation - The Transition to Net Zero. Panelist at the Sixteenth session of the Team of Specialists on Innovation and Competitiveness Policies, United Nations Economic Commission for Europe (UNECE), 19 November 2024, Geneva.
8. 2024 – Global system dynamics modeling of human-earth system interactions. Max-Planck Institute for Meteorology at Hamburg. 7 November, 2024
9. 2024 – AI in Science. Science Advice Mechanism of the European Commission and IIASA webinar. September 2024
10. 2024 – Approaches to Nonlinear Change. Positive Tipping Points Workshop of the Bezos Earth Fund. September 2024.
11. 2024 – Participatory Systems Mapping. IIASA Expert Workshop on Digitalisation Narratives and Climate Change Mitigation. May 2024.
12. 2024 - Humans in climate policy models. Computational Science Lab, University of Amsterdam. May 2024.
13. 2024 – Tipping points in global systems modeling. IAS Workshop on Tipping points towards sustainability: Theory, tools and empirical evidence. April 2024, Amsterdam.
14. 2024 – AI for Climate and Nature, Bezos Earth Fund and Columbia University, April 2024, New York (invited participant only)
15. 2024 – How to have humans in climate policy models. *Institute for Advanced Study (IAS), University of Amsterdam*. February 2024.
16. 2023 - Improving the representation of social systems in climate policy models. *Eindhoven University of Technology, Department of Industrial Engineering and Innovation*. October 2023.
17. 2023 - System dynamics modelling to explore climate, economy, environment and society interactions. *UK Department for Environment, Food and Rural Affairs (DEFRA)* Systems Thinking Seminar, 14 June 2023
18. 2023 – Using simple integrated assessment models to explore human and earth system feedbacks. *Joint Oslo Seminar* (MET Norway, CICERO, University of Oslo), 24 May 2023, Oslo, Norway.
19. 2023 – Using system dynamics to explore behavior change in integrated assessment context. LOOPS-5 Workshop, Conceptualizing and Navigating Earth Resilience in the Anthropocene. 27-29 March, *Stockholm Resilience Center*, Stockholm, Sweden.
20. 2022 – Acting on Sustainable Development Goal (SDG) synergies and trade-offs requires policy-focused systems tools. Keynote speech at the *5th International Research Workshop on Archetypes in Sustainability Research*, *University of Greifswald,* Germany.
21. 2022 – Social dynamics of low-carbon lifestyles. *Radboud Interfaculty Complexity Hub*.
22. 2021 - Social dynamics of demand-side mitigation. *Integrated Decision Making Hotspot* of *Nijmegen School of Management*.
23. 2021 - Interactive simulation environments and role playing games to explore climate solutions. Koc University, Turkey.
24. 2021 - Career Development Panel. Webinar series of the Society for Decision-making under Deep Uncertainty.
25. 2021 - Global Modeling for Climate Change Research and Action. System Dynamics Society Webinar
26. 2021 - Drivers of solar photovoltaic uncertainty. June 2021, NAVIGATE webinar organized by *Euro-Mediterranean Center on Climate Change* (CMCC).
27. 2021 - EU Agricultural Outlook Spring workshop. June 2021, *European Commission DG Agriculture and Rural Development*.
28. 2021 - Using online social media data to estimate energy demand. May 2021, ENERGYA Workshop, *Euro-Mediterranean Center on Climate Change (CMCC),* Italy.
29. 2021 - Societal Dynamics in Global Change Modeling. February 2021, *Copernicus Institute of Sustainability, Utrecht University*, Netherlands.
30. 2019 - Introduction to agent-based modelling for MSc Business Administration. October 2019, *Institute for Management Research, Radboud University*, Netherlands.
31. 2019 - Network modelling for resilience. February 2019, *Faculty of Technology, Policy and Management, Delft University of Technology*, Netherlands.
32. 2019 - Modelling human behaviour behind global diet shifts. May 2019, *Complexity Science Hub, Vienna,* Austria.
33. 2018 - Systems modelling to investigate sustainable consumption dynamics. Lecture series on "Delivering on the Sustainable Development Goals: Systems analytical perspectives on strategies and trade-offs", October 2018, *Institute for Social Ecology,* Vienna, Austria.
34. 2018 - System dynamics modelling for sustainable production and consumption. *IIASA-University of Tokyo Workshop* on "How can advanced mathematical modeling tools be useful to address sustainability challenges?", March 2018, Laxenburg, Austria.
35. 2016 - Dealing with Uncertainties in the Dutch Gas Sector: An exploratory modeling and analysis approach. Seminar at Industrial Engineering Department, *Bogazici University*, Turkey.

International conference talks (excl. the conference papers listed above)

1. Eker S (2023). Human wellbeing in relation to climate, economy and environment. In: *Annual meeting of the Integrated Assessment Modelling Consortium*, 14-17 November 2023, Venice, Italy.
2. Eker S (2022-invited) *Achieving Resilience in a Complex World* - Guidance for Action from Systems Sciences. Systems Analysis for Reducing Footprints and Enhancing Resilience Conference, Austrian Academy of Sciences, November 2022
3. Eker S (2022-invited) Using simple integrated assessment models to explore human and earth system feedbacks. *Scenarios Forum 2022*, 20-22 June 2022.
4. Eker S, Mastrucci A, Pachauri S, van Ruijven B (2021). Trends and drivers of air-conditioning adoption: Confidence-building in social media data. In: *Annual meeting of the Integrated Assessment Modelling Consortium*, 29 November-3 December 2021.
5. Eker S, Siegel L, Jones C, Sterman J, Kapmeier F, et al. (2021). Public Outreach and Interactive Learning with En-ROADS Global Energy and Climate Simulator. In: *European Geosciences Union General Assembly*, 19–30 April 2021.
6. Eker S (2020). Can we use online social media data for modelling lifestyle change?. In: *Annual meeting of the Integrated Assessment Modelling Consortium*, 1-4 December 2020.

7. Moallemi E, **Eker S,** Gao L, Bryan B. (2020) Global pathways to the post-2030 sustainable development. In: *Annual meeting of the Society for Decision-Making under Deep Uncertainty*, 10-12 November 2020.

8. Eker S (2020). Using DMDU methods to explore the lifestyle change uncertainty in integrated assessment models. In: *Annual meeting of the Society for Decision-Making under Deep Uncertainty*, 10-12 November 2020.

9. Eker S, Reese G, & Obersteiner M (2019). Modelling the drivers of a widespread shift to sustainable diets. In: *World Resources Forum*, 23-24 October 2019, Geneva, Switzerland.

10. Eker S, Reese G, & Obersteiner M (2019). A widespread shift to sustainable diets requires rapid risk perception. In: *Global Sustainable Development Goals in a Mediatized World*, 4-5 April 2019, Vienna, Austria.

11. Eker S, Rovenskaya E, Obersteiner M , & Langan S (2019). Validation of models used for scenario generation. In: *Scenarios Forum*, March 2019, Denver, Colorado.

12. Eker S, Reese G, Gao L, Obersteiner M (2018). Investigating global diet change dynamics by linking models of human behavior to IAMs. *The 11th Annual Meeting of the Integrated Assessment Modeling Consortium*, 13-15 November 2018, Seville, Spain.

13. Eker S, Rovenskaya E, Obersteiner M, Langan S (2018). A bibliometric analysis of the model validation literature. *The 11th Annual Meeting of the Integrated Assessment Modeling Consortium*, 13-15 November 2018, Seville, Spain.

14. Eker S, Rovenskaya E, Obersteiner M, Langan S (2018). Validation of environmental models: Practice and perspectives. *EGU General Assembly*, April 2018, Vienna, Austria.

15. Eker S, Rovenskaya E, Obersteiner M, Langan S (2017). Validation of uncertainty-oriented environmental models: A review of the existing approaches. *Fifth Annual Workshop on Decision Making Under Deep Uncertainty*, November 2017, Oxford, UK.

16. Eker S, van Daalen E (2015). A Multi-Method Approach to Evaluate the Robustness of Policies in the Dutch Gas Sector. *Third Annual Workshop on Decision Making Under Deep Uncertainty*, November 2015, Delft, Netherlands.

17. Eker S (2014). A systems modelling and exploratory uncertainty analysis of the future of the Dutch gas sector. *Energy Systems Conference*, June 2014, London: Elsevier.

18. Eker S, Slinger J (2014). Model Analysis Tools and Methods: Multivariate Sensitivity Analysis. *Workshop organized at the 32nd International Conference of the System Dynamics Society*, July 2014, Delft, Netherlands.

19. Eker S (2013). Dealing with uncertainties in the Dutch gas sector. *Technology, Management, and Policy Consortium Meeting*, June 2013, Cambridge, MA: Massachusetts Institute of Technology.

TEACHING

Regular teaching

2021 - present	*Nijmegen School of Management, Radboud University* Coordination of the master program *Business Analysis and Modeling;* coordinator of the master course *Systems Thinking for Systemic Change;* group seminars of the bachelor courses *Business Analysis for Responsible Organizations* and *Methods of Research and Intervention*; supervision of bachelor and master theses
2016	*University College London* Master thesis co-supervision and grading
2010-2017	*Faculty of Technology, Policy and Management; Delft University of Technology* Teaching MSc and BSc courses, and a MOOC for professionals, on model-based decision making and deep uncertainty

Others

2025	Systems thinking to identify positive tipping points. University of East Anglia, Critical Decade of Climate Change Doctoral Program, 9-10 June 2025.
2024-2025	Teaching the "System Dynamics Modeling" module at the *IIASA Summer School on System Analysis*, International Institute for Applied Systems Analysis (IIASA)
2022	Teaching the "Climate Change and Sustainability" module at the Master Program *Advanced Modules in International Development* (AMID, Radboud University)
2019	Training professionals and academics on participatory systems modelling, EIT Climate-KIC
2019	*Institute for Management Research; Radboud University,* Guest lecturer on agent-based modelling
2018	*Institute for Social Ecology; University of Natural Resources and Life Sciences (BOKU)* Guest lecturer on systems modelling to investigate sustainable consumption dynamics