

Prajal Pradhan

Curriculum Vitae

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ORCID: 0000-0003-0491-5489

Employment

10/2022– **Bauhaus Earth, Germany**

Present *Senior Scientist*

05/2021– **Potsdam Institute for Climate Impact Research (PIK), Germany**

Present *Senior Scientist*

Urban Transformations Group

05/2015– **Potsdam Institute for Climate Impact Research (PIK), Germany**

05/2021 *Postdoctoral Researcher*

Urban Transformations (former: Climate Change & Development) Group

05/2011– **Potsdam Institute for Climate Impact Research (PIK), Germany**

05/2015 *Doctoral Researcher*

Climate Change & Development Group (former: North-South Project)

08/2009– **Potsdam Institute for Climate Impact Research (PIK), Germany**

05/2011 *Scientist*

North-South Project

Education

2011–2015 **University of Potsdam, Germany**

Doctor of Natural Sciences, Geoecology

Dissertation: *Food Demand and Supply under Global Change*

Supervisor: Prof. Dr. Juergen P. Kropp

Final grade: magna cum laude

2006–2008 **University of Kiel, Germany**

Master of Science, Environmental Management

Thesis: *Soil erosion and soil conservation in Changunarayan (Nepal)*

Supervisor: Prof. Dr. Hans-Rudolf Bork

Final grade: Excellent

2001–2006 **Tribhuvan University, Nepal**

Bachelor of Engineering, Agricultural Engineering

Final grade: Distinction

Teaching and Laboratory Experience

- 2011–2014 **Seminars in Global water resources and Sustainability Concepts in Practice**
University of Potsdam, Germany
- 2007–2009 **Student, Scientific, and Teaching Assistant**
University of Kiel, Germany

Institutional Responsibilities

- 2020–2021 **Diversity Representative**
Potsdam Institute for Climate Impact Research (PIK), Germany
- 2018–2019 **Postdoc Representative**
Potsdam Institute for Climate Impact Research (PIK), Germany

IPCC Authorship

- 2019–2021 **Contributing Author: The Working Group II contribution to the IPCC Sixth Assessment Report**
Chapter 16: “Key risks across sectors and regions”
- 2019–2021 **Contributing Author: The Working Group III contribution to the IPCC Sixth Assessment Report**
Chapter 12 “Cross sectoral perspectives”
- 2017–2019 **Lead Author: IPCC Special Report on Climate Change and Land**
Chapter 5 “Food Security”
- 2017–2019 **Contributing Author: IPCC Special Report on Climate Change and Land**
Chapter 2 “Land-Climate Interactions”

Project Grants

Transformation towards long-term sustainability beyond Sustainable Development Goals (BeyondSDG)

Funded by – European Research Council (ERC) Starting Grant. 2023–2028
Principal Investigator

Received fund – 1.5 Million Euro

Förderung der Entwicklung des Himalayas/Promoting Himalayan Development by Strengthening Teaching and Research on Sustainable Development Goals (ForHimSDG)

Funded by – DAAD with funds from the Federal Ministry for Economic Cooperation and Development (BMZ). 2022–2025

Principal Investigator

Received fund – 324,976 Euro

Assessing climate-led social-ecological impacts and opportunities for resilience pathways in the EU bioeconomy (BIOCLIMAPATHS)

Funded by – Federal Ministry of Education and Research (BMBF) under JPI Climate AXIS call, 2019–2021

Principal Investigator

Received fund – 398,721 Euro

Sustainable Food Systems under Climate Change in South Asia (SusFood)

Funded by – Federal Ministry of Education and Research (BMBF), 2017–2019

Co-Principal Investigator

Received fund – 125,000 Euro

EU Calculator: trade-offs and pathways towards sustainable and low-carbon European Societies (EUCALC)

Funded by – European Commission's Horizon 2020, 2016–2019

Contribution to proposal WP 1 (lifestyles)

Towards European Societal Sustainability (TESS)

Funded by – European Commission's Seventh Framework Programme, 2013–2016

Contribution to proposal WP 2 (green infrastructure and ecosystem services)

Project Coordination

Förderung der Entwicklung des Himalayas/Promoting Himalayan Development by Strengthening Teaching and Research on Sustainable Development Goals (ForHimSDG)

04/2022–12/2025, Project Coordinator

Assessing climate-led social-ecological impacts and opportunities for resilience pathways in the EU bioeconomy (BIOCLIMAPATHS)[\[https://bioclimapaths.eu/\]](https://bioclimapaths.eu/)

11/2019–10/2022, PIK team leader

Sustainable Food Systems under Climate Change in South Asia (SusFood)

07/2017–06/2019, Project Coordinator

Sustainable South America (SUSA) [\[http://amazonlandscapes.org/\]](http://amazonlandscapes.org/)

04/2015–12/2018, PIK team leader

International Academic Experience

07–08/2017 **World Water Assessment Programme (WWAP), UNESCO, Italy**

Research Visit, Contribution to SDG 6 Synthesis Report

Host: Prof. Stefan Uhlenbrook

08/2016 **International Institute for Applied Systems Analysis (IIASA), Austria**

Research Visit, Update on Global Agro-ecological Model (GAEZ v4)

Host: Prof. Günther Fischer

06–08/2016 **International Institute for Applied Systems Analysis (IIASA), Austria**

Young Scientists Summer Program, Crop yield gaps investigation

Host: Prof. Günther Fischer

07/2009 **Laboratoire Chrono-Environnement, France**
COST Action Short Term Scientific Mission, Working with model WoodPam
Host: Prof. Francois Gillet

Awards

- 2023 **ERC Starting Grant 2022**
- 2021 **Best Sustainable Development Article Award 2020 (First)**
International Sustainable Development Research Society (ISDRS)
- 2018 **Best Sustainable Development Article Award 2017 (Second)**
International Sustainable Development Research Society (ISDRS)
- 2016 **Brandenburg Postdoc Award (Finalist)**
Ministry of Science, Research and Cultural Affairs, Potsdam, Germany
- 2014–2015 **Climate-KIC Scholar – PhD Scholarship**
European Climate Knowledge and Innovation Community
- 2007 **Mondialogo Engineering Award**
Daimler AG and UNESCO

Memberships of Scientific Societies

- 2023-2024 **Executive board member**
International Sustainable Development Research Society
- 2022-2023 **Elected board member**
International Sustainable Development Research Society
- 2021- **Senior Fellow**
Earth System Governance research alliance
- 2021- **Senior Fellow**
Global Land Programme
- 2018- **Member**
International Sustainable Development Research Society

Editorial Board

- 2022- **Editorial Board Member**
Sustainable Horizons
- 2022- **Editorial Board Member**
Sustainability Science
- 2022- **Editorial Board Member**
Regional Environmental Change
- 2022- **Editorial Board Member**
Humanities & Social Sciences Communications
- 2021- **Subject Editor**

- Anthropocene Science
 2021- **Associate Editor**
 PLOS Sustainability and Transformation
- 2019-2021 **Editorial Board Member**
 Sustainability
- 2019-2021 **Reviewer Board Member**
 Land

Reviewer

Proposal

- 2022 Reviewer, FORMAS – the Swedish Research Council for Sustainable Development for the call *International Network Grant for the SDGs*
- 2022 Reviewer, FORMAS – the Swedish Research Council for Sustainable Development for the call *Sustainable and resilient food systems in uncertain times*
- 2022 Reviewer, Stadt Wien - BOKU Research Funding
- 2022 Reviewer, The French National Research Agency (ANR) – *2022 generic call for projects*
- 2021 External Reviewer, New Frontiers in Research Fund – *Exploration 2021 competition*
- 2021 Reviewer, FORMAS – the Swedish Research Council for Sustainable Development for the call *Urgent projects*
- 2021 Reviewer, Israel Science Foundation, *Personal Research Grants*
- 2020 Review panel member, FORMAS for call *Realizing the Sustainable Development Goals*
- 2020 Review panel member, FORMAS for call *Centers for sustainable and competitive food systems*

Journals (Selected)

- Science
- Nature Sustainability
- Nature Climate Change
- The Lancet Planetary Health
- Environment Science and Technology
- Global Environmental Change
- Environment International
- One Earth
- Land Degradation & Development
- Food Policy
- Sustainability
- Agronomy for Sustainable Development
- Nature
- Nature Food
- Global Sustainability
- The Lancet Global Health
- Science of the Total Environment
- Environmental Research Letters
- Natural Resources Forum
- Food and Energy Security
- Nutrient Cycling in Agroecosystems
- PLoS ONE
- Sustainable Cities and Society
- Environmental Research Communications

- Journal of Cleaner Production
- Sustainable Development
- Palgrave Communication
- Environmental Health
- Resources, Conservation & Recycling
- BMJ Global Health
- Climatic Change
- Global Food Security

Duties as Adviser

- PhDs** Warchold, A. (running): Title (*to be decided*) University (*to be decided*), Germany.
 Seydewitz, T. (running): Title (*to be decided*) University (*to be decided*), Germany.
 Athare, T. (running): Social, economic and environmental implication of Indian lifestyles. Humboldt University, Germany.
 Landholm-Haight, D.M. (2021): Climate change mitigation potential through land use change. Humboldt University, Germany.

- Master and Bachelor students** Svintsov, S. (running): Urban Agriculture in Europe – Opportunities and Challenges. M.Sc. Remote Sensing, GeoInformation and Visualization, Potsdam University, Germany.

Altcappenberg, A. S. (2022): The incorporation of the Sustainable Development Goals into European bioeconomy strategies: A content analysis based on keywords. B.A. International Economics and Development, University Bayreuth, Germany.

Breuer, K. (2022): Impact of extreme temperature and drought on crop yield in Germany between 1981 and 2020. M.Sc. Geographische Umweltforschung, Freie University Berlin, Germany.

Muhammad, F. (2021): Assessment of Consumption- and Production-based Environmental Footprints and Limits in Germany at Subnational Level. Master in Environmental Governance (MSc), Albert-Ludwigs-Universität Freiburg, Germany.

Houbeaut, M. (2021): Interconnections between the Circular Economy and the Sustainable Development Goals (SDGs), a systematic study. MSc Environmental Pathways for Sustainable Energy Systems, Royal Institute of Technology, Stockholm, Sweden.

De Simone, M. (2021): Potential of Urban Agriculture in Berlin – Opportunities and Challenges. M.Sc. City and Regional planning, Technical University of Berlin, Germany.

Thapa, P. (2020): Monitoring Sustainable Development Goals: How selection of indicator matters?. MBA International Management of Resources and Environment, Technical University of Bergakademie Freiberg, Germany.

Warchold, A. (2019): Categorization of sustainable development goal (SDG) interactions at regional and global scale. M.Sc. Management Science, University of Leipzig, Germany.

Piske, J. (2019): SDG 2 “Zero Hunger by 2030” in South Asia: A realistic approach to end hunger? B.Sc. Geography, Albert-Ludwigs-Universität Freiburg, Germany.

Foong, A. (2019): Evolution of consumption-based agricultural emissions in the last decades. M.Sc. Environmental Sciences, University Koblenz-Landau, Germany.

Seydewitz, T. (2019): Global assessment of deforestation drivers across the tropics: impacts on carbon stocks and ecosystem service. M.Sc. Forest Information Technology, Eberswalde University for Sustainable Development, Germany.

Putra, P. (2019): Water, energy and food security nexus under climate change in South Asia. M.Sc. Environmental and Resource Management, Brandenburgische Technische Universität Cottbus–Senftenberg, Germany.

Ganzenmüller, R. L. (2018): Exploration of sectoral greenhouse gas emission dynamics and sustainable low-carbon pathways. M.Sc. Sustainability, Society and the Environment, University of Kiel, Germany.

Schägg, E. (2018): Political rationalities and visions of change of repair cafés in Berlin. M.Sc. Integrated Natural Resource Management, Humboldt University, Germany.

Akuraju, V. (2017): Sustainability of cities: Urban scaling and Sustainable Development Goal 11 indicators. M.Sc. Environmental and Resource Management, Brandenburgische Technische Universität Cottbus–Senftenberg, Germany.

Evetta, Z. (2017): Environmental and technical efficiency of agricultural production: a global study on the influence of trade liberalization. M.Sc. Integrated Natural Resource Management, Humboldt University, Germany.

Pfeifer, T. (2016): Sharing food to reduce food waste: A spatial analysis of food sharing networks in Germany. B.Sc. Geography, University of Bonn, Germany.

Ward, N. (2014): The case for green space: Berlin's urban gardening initiatives and their contribution to ecosystem services. M.Sc. Global Change Management, Eberswalde University for Sustainable Development, Germany.

Hiç, C. (2014): An estimation of food waste and its implications on food Security and environment. M.Sc. Agricultural Economics, Humboldt University, Germany.

Trainings

2014 **Haus der Kulturen der Welt, Germany**

Anthropocene Campus, 14–22 November

2005 **Indian Institute of Technology – Kharagpur, India**

Advanced Training in Agricultural Engineering (ATAE 2005), 13–24 June

Software Skills

Advanced ArcGIS, L^AT_EX, R

Intermediate FORTRAN, Linux, PCRaster, Simile, STELLA

Basic Matlab, Python, Scilab, SWAT

Languages

Nepali Native language

English Advanced

Highly proficient in spoken and written English

Hindi Intermediate

Good command of speaking and reading with basic writing

Newari Intermediate
German Basic

Good command of listening and reading with basic writing
Basic words and phrases

Publications

ISI Publications

- [1] **Prajal Pradhan**. Saving food mitigates climate change. *Nature Food*, Accepted.
- [2] **Prajal Pradhan**. A threefold approach to rescue the 2030 agenda from failing. *National Science Review*, 2023.
- [3] Alisher Mirzabaev, Rachel Bezner Kerr, Toshihiro Hasegawa, **Prajal Pradhan**, Anita Wreford, Maria Cristina Tirado von der Pahlen, and Helen Gurney-Smith. Severe Climate Change Risks to Food Security and Nutrition. *Climate Risk Management*, 2023.
- [4] Marion De Simone, **Prajal Pradhan**, Jürgen P. Kropp, and Diego Rybski. A large share of Berlin's vegetable consumption can be produced within the city. *Sustainable Cities and Society*, page 104362, 2023.
- [5] Lucila Marcela Beltrán-Tolosa, Gisella S Cruz-Garcia, Jhon Ocampo, **Prajal Pradhan**, and Marcela Quintero. Rural livelihood diversification is associated with lower vulnerability to climate change in the andean-amazon foothills. *PLOS Climate*, 1(11):e0000051, 2022.
- [6] **Prajal Pradhan**. Food transport emissions matter. *Nature Food*, 3(6):406–407, 2022.
- [7] Adrian Foong, **Prajal Pradhan**, Oliver Frör, and Jürgen P Kropp. Adjusting agricultural emissions for trade matters for climate change mitigation. *Nature Communications*, 13(1):1–10, 2022.
- [8] **Prajal Pradhan**, Tobias Seydewitz, Bin Zhou, Matthias KB Lüdeke, and Jürgen P Kropp. Climate extremes are becoming more frequent, co-occurring, and persistent in europe. *Anthropocene Science*, 1(2):264–277, 2022.
- [9] Tushar Ramchandra Athare, **Prajal Pradhan**, SRK Singh, and Jürgen P Kropp. India consists of multiple food systems with socioeconomic and environmental variations. *Plos one*, 17(8):e0270342, 2022.
- [10] Frank Biermann, Thomas Hickmann, Carole-Anne Sénit, Marianne Beisheim, Steven Bernstein, Pamela Chasek, Leonie Grob, Rakhyun E Kim, Louis J Kotzé, Måns Nilsson, Andrea Ordóñez Llanos, Chukwumerije Okereke, **Prajal Pradhan**, Rob Raven, Yixian Sun, Marjanneke J. Vijge, Detlef van Vuuren, and Birka Wicke. Scientific evidence on the political impact of the sustainable development goals. *Nature Sustainability*, 5(9):795–800, 2022.
- [11] Anne Warchold, **Prajal Pradhan**, Pratibha Thapa, Muhammad Panji Islam Fajar Putra, and Jürgen P Kropp. Building a unified sustainable development goal database: Why does sustainable development goal data selection matter? *Sustainable Development*.

- [12] Junze Zhang, Shuai Wang, **Prajal Pradhan**, Wenwu Zhao, and Bojie Fu. Mapping the complexity of the food-energy-water nexus from the lens of sustainable development goals in china. *Resources, Conservation and Recycling*, 183:106357, 2022.
- [13] Junze Zhang, Shuai Wang, **Prajal Pradhan**, Wenwu Zhao, and Bojie Fu. Untangling the interactions between the sustainable development goals in china. *Science Bulletin*, 2022.
- [14] Elena Schäg, Stefanie L Becker, and **Prajal Pradhan**. Thwarted visions of change: power and demographics in repair cafes and urban sustainability transitions. *Urban Transformations*, 4(1):1–19, 2022.
- [15] Carl C Anderson, Manfred Denich, Anne Warchold, Jürgen P Kropp, and **Prajal Pradhan**. A systems model of sdg target influence on the 2030 agenda for sustainable development. *Sustainability Science*, pages 1–14, 2021.
- [16] Deependra Neupane, Sagar Kafle, Kaji Ram Karki, Dae Hyun Kim, and **Prajal Pradhan**. Solar and wind energy potential assessment at provincial level in nepal: Geospatial and economic analysis. *Renewable Energy*, 2021.
- [17] Purushothaman C. Abhilash, Simone Bastianoni, Weiqiang Chen, Ruth DeFries, Leonardo F. Fraceto, Neven S. Fuckar, Shizuka Hashimoto, Danny Hunter, Saskia Keesstra, Othmane Merah, Patrick O’Farrell, **Prajal Pradhan**, Simron Singh, Pete Smith, Lindsay C. Stringer, and B. L. Turner. Introducing ‘anthropocene science’: A new international journal for addressing human impact on the resilience of planet earth. *Anthropocene Science*, page 1—4, July 2021.
- [18] Diego Rybski, **Prajal Pradhan**, Shade T. Shuttters, Van Butsic, and Juergen Peter Kropp. Characterizing the sectoral development of cities. *Plos One*, 16(7):e0254601, 2021.
- [19] **Prajal Pradhan**, Daya Raj Subedi, Dilip Khatiwada, Kirti Kusum Joshi, Sagar Kafle, Raju Pandit Chhetri, Shobhakar Dhakal, Ambika Prasad Gautam, Padma Prasad Khatiwada, Jony Mainaly, Sharad Onta, Vishnu Prasad Pandey, Keshav Parajuly, Sijal Pokharel, Poshendra Satyal, Devendra Raj Singh, Rocky Talchabhadel, Rupesh Tha, Bhesh Raj Thapa, Kamal Adhikari, Shankar Adhikari, Ram Chandra Bastakoti, Pitambar Bhandari, Saraswoti Bharati, Yub Raj Bhusal, Man Bahadur BK, Ramji Bogati, Simrin Kafle, Manohara Khadka, Nawa Raj Khatiwada, Ajay Chandra Lal, Dinesh Neupane, Kaustuv Raj Neupane, Rajit Ojha, Narayan Prasad Regmi, Maheswar Rupakheti, Alka Sapkota, Rupak Sapkota, Mahashram Sharma, Gitta Shrestha, Indira Shrestha, Khadga Bahadur Shrestha, Sarmila Tandukar, Shyam Upadhyaya, Juergen Peter Kropp, and Dinesh Raj Bhujju. The COVID-19 pandemic not only poses challenges, but also opens opportunities for sustainable transformation. *Earth’s Future*, 9:e2021EF001996, 2021.
- [20] Michael Mehling, Alice Pirlot, **Prajal Pradhan**, Emma Aisbett, Christoph Böhringer, Emmanuel Asane-Otoo, Jan Schneider, Dabo Guan, Moana Simas, Kirsten Wiebe, et al. Close the carbon loophole. *One Earth*, 4(5):587–590, 2021.

- [21] Tayyaba Khalil, Saeed A. Asad, Nusaiba Khubaib, Ayesha Baig, Salman Atif, Muhammad Umar, Jürgen P. Kropp, **Prajaj Pradhan**, and Sofia Baig. Climate Change and Potential distribution of Potato (*Solanum Tuberosum*) Crop Cultivation in Pakistan Using Maxent. *AIMS Agriculture and Food*, 6:663, 2021.
- [22] Sifat E Rabbi, Mohammad Ali, Luis C Costa, **Prajaj Pradhan**, Atiya Rahman, Fakir Md Yunus, and Jürgen P Kropp. Identifying climatic and non-climatic determinants of malnutrition prevalence in bangladesh: A country-wide cross-sectional spatial analysis. *Spatial and Spatio-temporal Epidemiology*, page 100422, 2021.
- [23] Nusaiba Khubaib, Saeed A Asad, Tayyaba Khalil, Ayesha Baig, Salman Atif, Muhammad Umar, Jürgen P Kropp, **Prajaj Pradhan**, and Sofia Baig. Predicting areas suitable for wheat and maize cultivation under future climate change scenarios in pakistan. *Climate Research*, 83:15–25, 2021.
- [24] Steffen Muench, Miroslava Bavorova, and **Prajaj Pradhan**. Climate change adaptation by smallholder tea farmers: a case study of nepal. *Environmental Science & Policy*, 116:136–146, 2021.
- [25] Mario Herrero, Philip K Thornton, Daniel Mason-D’Croz, Jeda Palmer, Benjamin L Bodirsky, **Prajaj Pradhan**, Christopher B Barrett, Tim G Benton, Andrew Hall, Ilje Pikaar, et al. Articulating the effect of food systems innovation on the sustainable development goals. *The Lancet Planetary Health*, 2020.
- [26] Benjamin Leon Bodirsky, Jan Philipp Dietrich, Eleonora Martinelli, Antonia Stenstad, **Prajaj Pradhan**, Sabine Gabrysch, Abhijeet Mishra, Isabelle Weindl, Chantal Le Mouël, Susanne Rolinski, et al. The ongoing nutrition transition thwarts long-term targets for food security, public health and environmental protection. *Scientific reports*, 10(1):1–14, 2020.
- [27] Anne Warchold, **Prajaj Pradhan**, and Jürgen P Kropp. Variations in sustainable development goal interactions: Population, regional, and income disaggregation. *Sustainable Development*, pages 1–15, 2020.
- [28] Tushar Ramchandra Athare, **Prajaj Pradhan**, and Juergen P Kropp. Environmental implications and socioeconomic characterisation of indian diets. *Science of the Total Environment*, 737:139881, 2020.
- [29] Lucila Marcela Beltrán-Tolosa, Carlos Navarro-Racines, **Prajaj Pradhan**, Gisella S Cruz-Garcia, Reynaldo Solis, and Marcela Quintero. Action needed for staple crops in the andean-amazon foothills because of climate change. *Mitigation and Adaptation Strategies for Global Change*, 25(6):1103–1127, 2020.
- [30] Muhammad Panji Islam Fajar Putra, **Prajaj Pradhan**, and Jürgen P Kropp. A systematic analysis of water-energy-food security nexus: A south asian case study. *Science of The Total Environment*, 728:138451, 2020.
- [31] **Prajaj Pradhan**, Steffen Kriewald, Luís Costa, Diego Rybski, Tim G Benton, Guenther Fischer, and Juergen P Kropp. Urban food systems: how regionalization

can contribute to climate change mitigation. *Environmental Science & Technology*, 54(17):10551–10560, 2020.

- [32] JK Ladha, ML Jat, CM Stirling, Debashis Chakraborty, **Prajal Pradhan**, Timothy J Krupnik, Tek B Sapkota, H Pathak, Dharamvir S Rana, Kindie Tesfaye, and Bruno Gerard. Achieving the sustainable development goals in agriculture: The crucial role of nitrogen in cereal-based systems. *Advances in Agronomy*, 163:1–78, 2020.
- [33] Mario Herrero, Philip K Thornton, Daniel Mason-D’Croz, Jeda Palmer, Tim G Benton, Benjamin L Bodirsky, Jessica R Bogard, Andrew Hall, Bernice Lee, Karine Nyborg, **Prajal Pradhan**, Graham D. Bonnett, Brett A. Bryan, Bruce M. Campbell, Svend Christensen, Michael Clark, Mathew T. Cook, Imke J. M. de Boer, Chris Downs, Kanar Dizyee, Christian Folberth, Cecile M. Godde, James S. Gerber, Michael Grundy, Petr Havlik, Andrew Jarvis, Richard King, Ana Maria Loboguerrero, Mauricio A. Lopes, C. Lynne McIntyre, Rosamond Naylor, Javier Navarro, Michael Obersteiner, Alejandro Parodi, Mark B. Peoples, Ilje Pikaar, Alexander Popp, Johan Rockström, Michael J. Robertson, Pete Smith, Elke Stehfest, Steve M. Swain, Hugo Valin, Mark van Wijk, Hannah H. E. van Zanten, Sonja Vermeulen, Joost Vervoort, and Paul C. West. Innovation can accelerate the transition towards a sustainable food system. *Nature Food*, 1(5):266–272, 2020.
- [34] **Prajal Pradhan** and Jürgen P Kropp. Interplay between diets, health, and climate change. *Sustainability*, 12(9):3878, 2020.
- [35] Cynthia Rosenzweig, Cheikh Mbow, Luis G Barioni, Tim G Benton, Mario Herrero, Murukesan Krishnapillai, Emma T Liwenga, **Prajal Pradhan**, Marta G Rivera-Ferre, Tek Sapkota, et al. Climate change responses benefit from a global food system approach. *Nature Food*, 1(2):94–97, 2020.
- [36] Vamsidhar Akuraju, **Prajal Pradhan**, Dagmar Haase, Juergen P. Kropp, and Diego Rybski. Relating sdg11 indicators and urban scaling—an exploratory study. *Sustainable Cities and Society*, 52:101853, 2020.
- [37] **Prajal Pradhan**. Antagonists to meet the 2030 agenda. *Nature Sustainability*, 2:171—172, 2019.
- [38] Benjamin Leon Bodirsky, **Prajal Pradhan**, and Marco Springmann. Reducing ruminant numbers and consumption of animal source foods are aligned with environmental and public health demands. *Journal of Sustainable and Organic Agricultural Systems*, 69:25–30, 2019.
- [39] Christian Kroll, Anne Warchold, and **Prajal Pradhan**. Sustainable development goals (sdgs): Are we successful in turning trade-offs into synergies? *Palgrave Communications*, 5(1):1–11, 2019.
- [40] David Milan Landholm, **Prajal Pradhan**, Peter Wegmann, Miguel Antonio Romero Sanchez, Juan Carlos Suarez Salazar, and Juergen Peter Kropp. Reducing deforestation and improving livestock productivity: GHG mitigation potential of silvopastoral systems in Caquetá. *Environ Res Lett*, 2019.

- [41] Steffen Kriewald, **Prajal Pradhan**, Luis Costa, Anselmo García Cantú Ros, and Juergen P Kropp. Hungry cities: how local food self-sufficiency relates to climate change, diets, and urbanisation. *Environ Res Lett*, 14(9):094007, 2019.
- [42] David M Landholm, **Prajal Pradhan**, and Juergen P Kropp. Diverging forest land use dynamics induced by armed conflict across the tropics. *Global Environ. Chang.*, 56:86–94, 2019.
- [43] Raphael Ganzenmüller, **Prajal Pradhan**, and Jürgen P. Kropp. Sectoral performance analysis of national greenhouse gas emission inventories by means of neural networks. *Science of The Total Environment*, 656:80–89, 2019.
- [44] **Prajal Pradhan**, Luís Costa, Diego Rybski, Wolfgang Lucht, and Jürgen P. Kropp. A Systematic Study of Sustainable Development Goal (SDG) Interactions. *Earth's Future*, 05(11):1169–1179, 2017.
- [45] Ceren Hiç, **Prajal Pradhan**, Diego Rybski, and Jürgen P Kropp. Food surplus and its climate burdens. *Environ Sci Technol*, 50(8):4269–4277, 2016.
- [46] **Prajal Pradhan**, Günther Fischer, Harrij van Velthuisen, Dominik E. Reusser, and Juergen P. Kropp. Closing yield gaps: how sustainable can we be? *PLoS ONE*, 10(6):e0129487, 2015.
- [47] **Prajal Pradhan**, Matthias KB Lüdeke, Dominik E Reusser, and Juergen P Kropp. Food self-sufficiency across scales: how local can we go? *Environ Sci Technol*, 48(16):9463–9470, 2014.
- [48] Dominik Reusser, Tabea Lissner, **Prajal Pradhan**, Anne Holsten, Diego Rybski, and Jürgen P Kropp. Relating climate compatible development and human livelihood. *Energy Procedia*, 40:192–201, 2013.
- [49] **Prajal Pradhan**, Matthias KB Lüdeke, Dominik E Reusser, and Jürgen P Kropp. Embodied crop calories in animal products. *Environ Res Lett*, 8(4):044044, 2013.
- [50] **Prajal Pradhan**, Dominik E. Reusser, and Juergen P. Kropp. Embodied greenhouse gas emissions in diets. *PLoS ONE*, 8(5):e62228, 2013.

Others Publications

- [1] Alisher Mirzabaev, Lennart Olsson, Rachel Bezner Kerr, **Prajal Pradhan**, Marta Guadalupe Rivera Ferre, and Hermann Lotze-Campen. *Climate Change and Food Systems*, pages 511–529. Springer International Publishing, Cham, 2023.
- [2] Diego Rybski, David P Helmers, **Prajal Pradhan**, Shade T Shuttters, Volker Radeloff, and Van Butsic. Employment and land use in the united states: cross-sectional and short-term trends reveal the importance of the 96th meridian. *arXiv preprint arXiv:2212.01148*, 2022.
- [3] **Prajal Pradhan**, Detlef van Vuuren, Birka Wigge, Maja Bogers, Thomas Hickmann, Agni Kalfagianni, Julia Leininger, Lorenzo di Lucia, Heleen van Soest, Anne Warchold, et al. Methods for analysing steering effects of global goals. In *The Political Impact*

of the Sustainable Development Goals: Transforming Governance Through Global Goals?, pages 172–203. Cambridge University Press, 2022.

- [4] **Prajal Pradhan**, Tek B. Sapkota, and Jürgen Kropp. Why food systems transformation is crucial for achieving the SDGs. *Rural 21*, 55(3):10–12, 2021.
- [5] Alisher Mirzabaev, Lennart Olsson, Rachel Bezner Kerr, **Prajal Pradhan**, Marta Guadalupe, and Rivera Ferre. Climate change and food systems. *Food Systems Summit Brief, Prepared by Research Partners of the Scientific Group for the United Nations Food Systems Summit 2021*, page 19, 2021.
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- [8] **Prajal Pradhan**. Closing the yield gaps: how sustainable can we be?, Interim Report – Young Scientists Summer Program, 2013.
- [9] **Prajal Pradhan**, Hans-Rudolf Bork, Yvonne Schweikhard, Uran Joshi, Iswar N. Pakwan, and Mumu P. Pradhananga. Soil erosion and soil conservation on Changu-narayan Hill, Nepal. *GEO-ÖKO*, 30:19–42, 2009.
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Conferences and Workshops

- 29/09–
23/12/2022 **Online Training on Teaching sustainability and localising the Sustainable Development Goals in the Hindu Kush Himalaya**
Organizer
- 25/07–
29/07/2022 **Strengthening Teaching on Sustainable Development Goals: Curriculum co-development workshop, Banepa Nepal**
Organizer and coordinator
- 15/06–
17/06/2022 **28th annual ISDRS Conference – Sustainable Development and Courage: Culture, Art and Human Rights**
Track 5f. Food security and agriculture, Co-Track Chair
- 19/03/2021 **Online stakeholder consultation on climate hazard risks in the Bioeconomy in Europe**
Organizer and coordinator
- 17/07–
30/08/2020 **Expert Workshops: Impacts of the COVID-19 pandemic on Sustainable Development Goals in Nepal, 20 online workshops**
Organizer and coordinator

- 23/06/2019 **Stakeholder Workshop: Understanding the Himalaya – Think, Map and Design, Nepal**
Organizer
- 11–
12/06/2019 **Second Workshop: Sustainable Food Systems under Climate Change in South Asia, Germany**
Organizer
- 16–
17/04/2019 **First Nepali Professionals Summit, Germany**, jointly organized by Embassy of Nepal in Berlin and Centre for International Migration and Development (CIM/GIZ)
Member of Organizing Committee
- 26–
28/06/2018 **First workshop: Sustainable Food Systems under Climate Change in South Asia, Pakistan**
Organizer
- 11–
13/10/2017 **Impact World 2017 - Counting the true costs of climate change, Germany**
Scientific Team Member (Sustainable Development Goals)
- 13/10/2017 **Workshop: Detecting and quantifying interactions within and across Sustainable Development Goals, Impact World 2017**
Host
- 23–
25/01/2017 **FAO and IPCC Expert Meeting on Climate Change, Land Use and Food Security 2017, Italy**
Invited participant

Selected Recent Presentations

- 08/02/2023 **Systematic analysis of urban agriculture literature: topics, benefits, challenges, and links to urban development**
Bauhaus Earth Seminar
- 27/01/2023 **Needs for food systems transformation for climate change mitigation and sustainable development**
FaNSI Seminar 2 - Climate Change, Agriculture & Natural Resources, Natural Resources Institute, University of Greenwich (Online), (*keynote speaker*)
- 17/12/2022 **Going beyond Sustainable Development Goals for transformation towards long-term sustainability**
The 2nd Workshop of Asian Young Geographers, Nanjing Normal University (Online), (*keynote speaker*)
- 10/11/2022 **Transformation towards long-term sustainability beyond Sustainable Development Goals**
World Science Day for Peace and Development 2022: Basic Sciences for Sustainable Development, UNESCO Nepal (Online), (*keynote speaker*)
- 28/09/2022 **Interactions among Sustainable Development Goals: a need for addressing trade-offs**
41st Congress of the German Sociological Association, Bielefeld (*invited speaker*)

- 31/08/2022 **How do Sustainable Development Goals interact: Supporting and hindering factors?**
Potsdam Summer School 2022, Potsdam, (*invited speaker*)
- 15/06–
17/06/2022 **Considerations beyond Sustainable Development Goals for long-terms sustainability**
28th annual ISDRS Conference – Sustainable Development and Courage: Culture, Art and Human Rights, Stockholm, (*keynote speaker*)
- 10/12/2021 **Solar and wind energy potential in the mountains**
International webinar on Mountain Potentials and Future (Online), Resources Himalaya Foundation, Nepal (*invited speaker*)
- 30/08/2021 **Hammering out the climate change adaptation in the IPCC AR6 my experiences: a focus on forest and food systems**
Webinar Climate Change (Online), Faculty of Forestry, Agriculture and Forestry University, Nepal (*invited speaker*)
- 13–
15/07/2019 **A causal systems model to understand synergies and trade-offs among SDGs**
The COVID-19 Pandemic not only Poses Challenges, but also Opens Opportunities for Sustainable Transformation
27th International Sustainable Development Research Society (ISDRS) Conference, Online
- 01/07/2021 **Understanding Sustainable Development Goal interactions curcial for Policy Interventions**
Kick-off meeting: SDG Interactions and Policy Interventions in Developing Countries, organized by Dutch Research Council (NWO) (*keynote speaker*)
- 24/06/2021 **Food systems and climate change mitigation**
Climate Change & Water Security Lecture (Online), Institute of Engineering, Tribhuvan University, Nepal (*invited speaker*)
- 22/03/2021 **Food systems and climate change mitigation**
Climate Change Seminar (Online), Asian Institute of Technology, Bangkok, Thailand (*invited speaker*)
- 19/03/2021 **Climate hazard hotspots related to bioeconomy in Europe**
Online stakeholder consultation on climate hazard risks in the Bioeconomy
- 16/03/2021 **The COVID-19 Pandemic not only Puts Challenges but also Opens Opportunities for Sustainable Transformation**
Climate Change and Pathways to Self-Reliant India: Opportunities and Challenges for Sustainable Development, Jamia Millia Islamia, New Delhi (*session chair and invited lead lecture*)
- 03/03/2020 **Food systems and climate change mitigation**
Online lecture, Royal Institute of Technology, Stockholm, Sweden (*invited speaker*)

- 01/12/2020 **Findings of IPCC Special Report on Climate Change and Land on food security**
Koronivia Workshop, UNFCCC Climate Dialogues (*invited speaker*)
- 17/09/2020 **Challenges and Opportunities posed by COVID-19 pandemic to achieve Sustainable Development Goals in Nepal**
National Science Day of Nepal (*invited speaker*)
- 10/06/2020 **Monitoring Sustainable Development Goals: how selection of indicators matters**
The 2020 SDG Research Symposium GlobalGoals2020
- 04/02/2020 **Food systems and climate change – role of demand side management for climate change mitigation**
Climate Change Seminar (Online), Asian Institute of Technology, Bangkok, Thailand (*invited speaker*)
- 15–
16/01/2020 **Sustainable Developments Goal (SDGs) and Aquaculture/Fisheries**
Blue Sector at the crossroad, Germany (*invited speaker*)
- 06/12/2019 **Sustainable Food Systems under Climate Change**
Bildung als Schlssel zum Erfolg, Germany (*invited speaker*)
- 16–
17/09/2019 **Climate change and food security: highlighting urban food system and regional specificity**
United Nations Expert Group Meeting on Population, Food security, Nutrition and Sustainable Development, United States
- 24–
28/06/2019 **Interplay between diets, health, and climate change**
4th Annual Agriculture, Nutrition & Health Academy, India
- 18/05/2019 **Climate Crisis, Broken Food Systems and Sustainable Development Goals**
Advocacy workshop of BASUG, Germany (*invited speaker*)
- 06/04/2019 **Climate Change, Sustainable Development Goals and Food Security**
5th Frankfurter Nepal-Tag, Germany (*invited speaker*)
- 04/03/2019 **Urban food systems: how regionalization can contribute to climate change mitigation?**
Aalto University, Finland (*colloquium*)
- 13/09/2018 **Interplay between diets, health, and climate change**
Leibniz Environment and Development Symposium (LEADS) 2018, Germany
- 23/08/2018 **Synergies and trade-offs among the Sustainable Development Goals**
Development Research Conference – Rethinking development, Sweden
- 22/08/2018 **Regionalization of urban food systems and its climate benefits.**
Development Research Conference – Rethinking development, Sweden
- 10/04/2018 **SDG interactions, policy planning & prioritization, & leave no one behind**

- 7th meeting of the IAEG-SDGs 2018, Austria (*nominated by UNIDO*)
- 30/01/2018 **A systematic study of Sustainable Development Goal (SDG) interactions**
Leibniz Environment and Development Symposium (LEADS) 2018, Germany
- 19/08/2017 **Smart food systems to mitigate climate change and to attain SDGs**
APEC Climate Symposium 2017, Vietnam (*invited speaker*)
- 18/05/2017 **Localizing urban food systems and its climate benefits**
Dresden Nexus Conference 2017, Germany
- 04/05/2017 **Save food and contribute to climate change mitigation**
Save Food Congress 2017, Germany (*invited speaker*)
- 12/06/2016 **Towards climate smart food systems**
DAAD Alumni Conference 2016, Dominican Republic (*invited speaker*)
- 19/05/2016 **Towards climate smart food systems**
University of Leeds, United Kingdom (*colloquium*)
- 04/03/2016 **Inefficiencies in food systems**
International Center for Tropical Agriculture (CIAT), Colombia (*colloquium*)
- 05/05/2015 **Regional variations in use of crops for livestock production**
IAMO Forum 2015: Agriculture and climate change, Germany