

Authors

Kathryn Adamson is a researcher in Physical Geography at Manchester Metropolitan University. Her research focuses on the impacts of climate change on glaciers and rivers. Through her interests in science communication, she works with a range of media outlets, and has designed and led a number of public engagement projects, exhibitions, and workshops for geoscientists. Kathryn listens to a lot of punk music.

Gameli Adzaho lives in Accra and serves as the country technical lead for the Research and Innovation Systems for Africa Fund, a United Kingdom government initiative aimed at strengthening local research and innovation ecosystems. He is passionate about public participation in science and innovation and has played key roles in advancing this goal with community-oriented organizations. Previously, Gameli was a Research Fellow of the Weizenbaum Institute for the Networked Society, Berlin.

Gerardo Alatorre Frenk is a professor and researcher at the Universidad Veracruzana in Xalapa. As an agronomist and anthropologist, he has been involved since the 1980s in multi-actor and transdisciplinary action research aimed at sustainable management of water, watersheds, and forests. Gerardo participates in citizen organizations such as Forest Stewards Network of Xalapa and *Agua para Tod@s* *Agua para la Vida*. He loves to improvise on his piano.

Marie Alavi focuses on transdisciplinary learning of future skills and attitudes in the *Beyond Disciplinary Boundaries* project. Her involvement in the *Horizon2020 Path2Integrity* project and evaluations on teaching research integrity fostered her enthusiasm for reflective, values-based education promoting ethically sound responses to modern challenges. Marie is not sure whether it was Plato or encountering children's ways of understanding that shaped her method of exploring cognitive potential.

Alhassan Yakubu Alhassan is research fellow in the Department of Sociology and Social Work and the Centre for Digital Transformation at the University of Agder, Kristiansand. He holds a masters in Sociology from the University of Saskatchewan in Canada and a masters in Global Development and Planning from the University of Agder. Alhassan is also a guest lecturer at the Kwame Nkrumah University of Science and Technology in Ghana.

Lucy Allen is a transdisciplinary practitioner who helps students, educators, and industry partners tackle complex challenges by developing their creativity, innovation, and boundary-crossing capacities. Her research focuses on the future of education and the role of the arts in its transformation. Lucy has previously taught in the performing arts space and co-founded a start-up in the chronic illness support sphere. She is also on a quest to befriend uncertainty by performing improvisational theatre.

Andrea Altepost is a sociologist and mathematician with professional experience in human resources development. She is fascinated by how people interact with each other and how people and technology interact. Therefore, her research focus is on the empirical analysis of human–technology interaction in the context of work and the participatory design of work systems. For conference trips, Andrea always packs a puzzle book to relax by solving crossword and syllable puzzles, Sudoku, and the like in the evening.

Julia Backhaus is a trained multi-disciplinarian and has become a convinced transdisciplinary. For this reason, she joined the Living Labs Incubator, within the Excellence Strategy of RWTH Aachen University, in 2021, where she studies and supports the (co-)production of knowledge, socio-technical innovation, and societal transformation in and through living labs. To her, life feels like a living lab most of the time.

Philip Barth is a science enthusiast. Formally educated in physics and biology, he now works in university didactics, where he splits his duties between faculty development and curriculum development. By night, he is a podcaster and co-produces the podcast *Kritisches Denken*. The contribution on *Critical Thinking* in this volume came about in the aftermath of an interview he did with coauthor Jonas Pfister.

Michael Beck is a sociologist who is interested in educational inequalities, social justice, and research methodology. Having spent a lot of time researching inequalities in the Swiss educational system, with brief detours into political participation research, he is today the head of the Institute Education and Society at St. Gallen University of Teacher Education. Michael enjoys playing in a rock band with his old band mates, although they are economists.

Frank Becker works at TU Berlin's Science Shop *kubus*. As a trained electrician, trade union secretary, management consultant, co-founder of a repair cafe and a community garden, he has learned to combine working cultures. Frank's areas comprise cooperation networks of sustainability, regional economy, reuse, and social innovations. He is addicted to cooking due to the combination of a meditative attitude, healthy food, and sustainable living. He takes recipes as suggestions, not as prescriptions.

Laurenz Blömer studied industrial economics at TU Berlin and works as head of product development in the sustainability education startup *PROSUMIO*. In his masters studies, he focused on sustainability topics und experienced the importance of learning beyond the lectures to apply knowledge in practice. In 2020, Laurenz started the project lab *Sustainable Handprints* together with his colleagues at the TU Berlin. He loves to travel through Europe by train as a digital nomad.

Judith Bönisch works as a coordinator for student-organized teaching projects at TU Berlin. Her background in social and cultural anthropology and intercultural communication helps her to mediate between the formal structure of the university and students' ideas, and thus create unique learning opportunities together. For Judith, student self-organization is a very powerful emancipatory tool. In her spare time, she enjoys watching the rabbits she shares the living room with.

Stefan Böschen is a chemical engineer and sociologist. He is an interdisciplinarian and enjoys working in interdisciplinary environments. In such contexts, he feels right at home. RWTH Aachen University offers an exciting field of activity for this. However, two grandchildren are teaching him how fresh life is beyond the university.

Bernd Böttger was born in 1966 in Karlsruhe. He studied chemistry at TU Karlsruhe and finished his experimental laboratory work on Electrochemistry in liquid ammonia in 1994. Afterwards he went to Córdoba for a two years to work on the electrochemistry of thin films. Since 1998 he has been working with *ACCESS* in Aachen on virtual microstructure experiments and thermodynamics and spends much time with writing articles on seemingly unrelated topics.

Bonny Brandenburger is a research associate in the research group Education for the Digital World at the Weizenbaum Institute for the Networked Society, Berlin, and the University of Potsdam. In her dissertation, she explores the question of how open teaching and learning processes can be designed in the context of university-integrated makerspaces. She further conducts research on democracy education, open hardware, critical making, and citizen science. Bonny likes to dance to Latin American rhythms and enjoys long walks in nature.

Michael Brennan is a professor at the Ulster Business School, Ulster University Belfast, Northern Ireland. He teaches creativity and innovation, and his research has a focus on sustainable development through transdisciplinary problem-solving. Michael has a strong record in researching business models and socio-technical systems – supported by United Kingdom research council funding. He previously worked as an archaeologist with a particular interest in prehistoric landscapes and technologies.

Katja Brundiers works as a clinical associate professor in the School of Sustainability at Arizona State University. Her teaching focuses on professional skills and competencies in sustainability collaborations. She conducts transdisciplinary research on sustainable disaster mitigation in partnership with city partners and nonprofit organizations. Katja's mode of transportation is her bicycle, which is a source of daily joy and a reminder of the sustainability challenges facing us.

Jonas Bylund is affiliated to the Department of Urban Planning and Environment at the KTH Royal Institute of Technology Stockholm as researcher. He was part of the JPI Urban Europe Management Board from 2013 to 2022. Jonas's main responsibility was science-policy communication and developing urban research and innovation funding calls. He is trained in human geography and social anthropology, with a specific research focus on the knowledge practices in planning and environmental sciences.

Alessio Cavicchi is a full professor of agribusiness, rural development, and branding at the Department of Agriculture, Food and Environment of the University of Pisa. His professional experience includes coordinating several *Erasmus+* and other funded projects, and working as a researcher in many national and international research projects. Alessio is also a lover of good food and wine, especially if good means that it has been produced by people who care about the environment and the welfare of their workers, and who are respectful of the landscape.

Alexander Chmelka discovered during his studies in actor-network theory the conditions under which he could be proud to be called a sociologist. He is currently writing a making-of for the term *engaged learning* and teaches at Otto-von-Guericke-University in Magdeburg in the social sciences undergraduate program. As a holder of the 3rd Kyu in Shotokan Karate, Alexander agrees with Pierre Bourdieu's statement that sociology is a martial art.

Frederik Cloppenburg is Head of Nonwovens in the Institute of Textile Technology at RWTH Aachen University. He leads the institute's research activities in the field of nonwovens and paper products and production and, as chief digital officer,

is also responsible for digitization and all the institute's digitalization research projects. Frederik is a passionate sailor and long-distance runner.

Wendy Jo Coones is on the academic and research staff of the Center for Image Science at the University for Continuing Education Krems. She coordinates the Erasmus Mundus joint master in Media Arts Cultures, lectures and publishes in the fields of museology, digital arts, and cultural heritage, and prepares international students for emerging futures in the cultural and creative sectors. Wendy's creative diversion is writing speculative fiction short stories with museum narratives.

Juliette Cortes Arevalo is a researcher and lecturer at the Technology, Policy and Management faculty of the TU Delft. Her work focuses on the collaborative modeling and management of climate-related hazards in Europe and abroad. While doing so, storytelling has become essential to facilitate knowledge exchange between research, government, and local communities. Juliette believes everybody has a story to tell, and the sum of everyone's efforts can make a difference.

Barbara Doran is a lecturer, artist, and creativity connector. She specializes in expanding how we understand and harness creative intelligence in the art of living. With over 25 years of experience, Barbara has worked in the realms of collective well-being, including public health, urban and regional planning, healthy psychology, and the arts. Barbara sees creativity as a powerful pathway to personally and collectively identifying unseen opportunities that help us respond to the complex challenges before us.

Marc Dusseldorp is an interim professor of philosophy, technology, and sustainability at Darmstadt University of Applied Sciences and a senior research scientist at a sustainability-oriented battery research start-up. He has been engaged in the (transdisciplinary) theory, practice, and teaching of sustainable development and technology assessment for many years. Beyond academia, Marc has been teaching yoga for 18 years – an approach to personal sustainability that he also promotes in university teaching.

Frances Fahy is a geographer and energy social scientist at the University of Galway on the picturesque west coast of Ireland, where she leads several research teams on sustainable consumption and energy citizenship research. A Fulbright scholar, Frances previously served as Head of Geography at the University of Galway. Frances has coordinated more than 20 funded research projects and is the current lead of the Horizon 2020 project, *EnergyPROSPECTS*. A retired harpist, Frances enjoys transdisciplinary research, and she co-created her son Ben.

Emanuele Fantini is senior lecturer and researcher in Water Politics and Communication at IHE Delft Institute for Water Education with extensive experience in working with journalists, photographers, and science communicators. He is the editor of the water governance blog *FLOWs* and hosts the podcasts *The Sources of the Nile*, *Si dice acqua*, and *The House of Water*. Committed to crossover projects outside academia, Emanuele has 12 years of experience as a certified bedtime storyteller.

Markus Feufel has a background in Organizational and Human Factors Psychology and heads the Division of Ergonomics at TU Berlin. He introduced Scrum to the division and is interested in working out a *Scrum for Science – Science* guide to help research groups to adapt the framework for managing their transdisciplinary projects more effectively. Markus thinks about how agile methods may help to improve public administration.

Steven M. Finn is driven by the challenge of successfully and equitably feeding a global population of 10 billion by 2050 within planetary boundaries, anchored by a core focus on leading educational efforts and partnerships across sectors to scale food waste reduction to transform food systems and accelerate progress toward Target 12.3 and the Sustainable Development Goals. In his downtime, he engages in many projects to make old things new while also re-reading many literature classics.

Alessandro Fusco is Future Food Japan Director at the Future Food Institute. After 10 years of corporate experience as senior designer and innovation manager, he founded a start-up that has transformed the way we experience wine through storytelling. Alessandro has taught at several universities, among them Politecnico di Milano. He currently leads educational and innovation initiatives in Japan to regenerate the food ecosystem. Alessandro is an improv theatre actor, constantly applying the philosophy of ‘yes, and’.

Julia Gäckle is a landscape architect and research associate in the Institute of Landscape Architecture at RWTH Aachen University. In her research she deals with the topics of local identification and appropriation of urban space through temporary interventions. Julia also works as a project leader at Treibhaus Landschaftsarchitektur in Hamburg.

Gabriele Gramelsberger is a philosopher of science and technology at the RWTH Aachen University, interested in the digitization of science. She is co-head of the Käte Hamburger Kolleg *Cultures of Research – an International Center for Advanced Studies*. Gabriele’s recent book is devoted to the philosophy of the digital. She likes to watch biologists observing software observing fish.

Thomas Gries has a background in mechanical engineering and economics and is the director of the Institut für Textiltechnik of RWTH Aachen University, a leading institution in digitalization and biotransformation of the textile sector. In addition to his work as a scientist and science manager, he holds several management positions in leading international technological companies of various size (start-ups, mid-size, large scale) as well as nonprofit organizations. Thomas enjoys spinning wheels, both at work and in his free time.

Mary Griffith is a perpetual foreigner and approaches communication in unique ways. She is a lecturer at the Universidad de Málaga in Spain, researching bilingualism. Most recently she has been exploring how humans process language to develop machine learning tools using artificial intelligence. Her 20-year-old self could never have imagined being on a junior year abroad for the last 30 years. Perhaps she did it all backwards, studying Spanish in the United States and English in Spain, going back to university with four kids under ten. But, indeed, higher education is a lifelong process.

Heidi Grobbauer is the managing director of *KommEnt – Society for Communication, Development, and Dialogic Education* in Vienna and a member of the Austrian Strategy Group for Global Education. Her work focuses on the implementation of continuing education programs for teachers and other education professionals, such as the Master's Program Global Citizenship Education at the Alps-Adriatic University in Klagenfurt. All this leaves too little time for literature (adult and children's) and jazz.

Jutta Gutberlet was born in Germany and raised in São Paulo. She started out as a biologist and converged towards geography, providing her with a diverse skill set to connect the social, economic, and political with the environmental dimension. Jutta is passionate about participatory and action-oriented research approaches pursuing the goals of sustainable development, resilient communities, and global environmental health. She loves hiking, camping in wilderness, and mountains are the best.

Christoph Heckwolf is a sociologist at the Chair of Sociology of Technology and Organization at RWTH Aachen University. With an emphasis on transdisciplinary contexts, his current work focuses on sustainability, the bioeconomy, and the textile industry. His work is grounded in network theory, social network analysis, and qualitative social science, which he integrates into transformative research, e.g. real-world experiments and labs.

Maren Heibges, an anthropologist of science and technology, is the deputy head of the Division of Ergonomics at TU Berlin. She conceived of *Scrum for Science – Science* during her management of a transdisciplinary research project in her unit. Maren also works as a trainer for both agile science facilitation and mixed and qualitative methods. Maren is the co-owner of two exceptionally large rabbits, which reside in her back-garden and have been rescued from a balcony.

Loni Hensler practices the art of facilitating participatory processes of collective learning and action towards a shared territory management. Her focus is on transformative learning, diverse values about nature, conflict transformation, and construction of horizontalities from a collaborative action-research approach. Loni studied economy, environmental and sustainable sciences, and alternative pedagogies. Currently, she contributes to care of nature and people in the solidarity economy network *La Gira*, the NGO Mexican Center for Environmental Law, and the Forest Stewards Network of Xalapa. Loni loves to practice karate.

Vera Husfeldt is a scientist with long experience in education research. For eight years, until 2019, she was head of the Quality Development Department at the Swiss Conference of Cantonal Ministers of Education and was responsible for education monitoring and educational standards. Since 2020, she has been a professor at the University of Applied Sciences of the Grisons in Chur, where she heads the research area of education informatics. As a contrast, Vera is studying theology to appear a little wiser.

Melanie Jaeger-Erben is an environmental sociologist working at Brandenburg University of Technology. Her research focuses on the interface of technological, social, and environmental change, particularly on challenges and possibilities for sustainable consumption and production. In her research, Melanie experiments with novel methodological and conceptual approaches. She regularly visits the Discworld.

Isa Jahnke is professor of learning technologies and founding vice-president for academic and international affairs at the newly founded University of Technology Nürnberg. She studied social sciences and was doctoral researcher in informatics at TU Dortmund. Isa was professor of Interactive Media and Learning at Umeå University and director of the Information Experience Lab at the University of Missouri-Columbia. She likes to run and did a marathon, some years ago.

Chhavi Jatwani is a design innovation project leader contributing to a sustainability transition in the food sector. She leverages design thinking, systems thinking, and creative problem solving for complex food system challenges. These days

Chhavi is busy with developing a new planet-centered innovation methodology and mentoring an outstanding team of associate designers changing the world and how we eat.

Thies Johannsen teaches and works in the span between humanities, arts, and social sciences on the one end and science, technology, engineering, and mathematics on the other. His research focuses on competences for innovation along with knowledge and technology transfer. After working on various research projects and in research administration, he has developed and coordinated cooperative education programs with practical partners from business and public administrations. Thies is a passionate plant guardian of green souvenirs from his travels.

Stefan John is a researcher with the Living Labs Incubator located at the Human Technology Center within RWTH Aachen University. For the Living Labs Incubator project, he is networking, researching, and supporting living labs. In his academic work, Stefan is analyzing (power) structure in living labs and researches about modes and understandings of experimentation in these (knowledge) infrastructures in the contemporary knowledge society.

Marina Joubert is a science communication researcher, lecturer, and trainer at Stellenbosch University. Her research interests focus on scientists' roles in public communication of science, science representations in mass media, and online interfaces between science and society. Marina is the deputy editor of the *Journal of Science Communication* published by SISSA Medialab. She is passionate about oceans and enjoys snorkeling in South Africa's kelp forests.

Katharina Jungnickel is an industrial engineer and has developed an instrument to measure agility for teams. She is also a certified Scrum Master and has given various workshops on agile management to small and medium-sized enterprises. Currently, Katharina is a research fellow in a transdisciplinary research project at the Division of Ergonomics at TU Berlin, supporting the adaption of *Scrum for Science – Science*. In her spare time, she cuts and paints wood in her garden.

László Z. Karvalics is a passionate omnivore and manufacturer of multidisciplinary information culture research, as a historian and linguist, teaching in different Hungarian universities. An advocate of lifelong research and the initiation-like integration of young generations into local and global problem-solving projects, László is also an expert on the cultural history of toothpicks and a determined collector of old toothpicks and toothpick holders.

Konstantin S. Kiprijanov works as project coordinator and public engagement researcher for the project *Public Engagement with Planetary Health* at the Natural History Museum in Berlin. He is also engaged in teaching and training activities, and acts as a strategy consultant to the Museum's directorate. Konstantin holds a PhD in history and philosophy of science from the University of Leeds. His favorite pastime activities are cooking and reading pretentious books in countryside pubs.

Julie Thompson Klein passed away during the production of this book. She was professor of humanities emerita at Wayne State University, international research affiliate at the Transdisciplinarity Lab at ETH Zurich, and, later, visiting foreign professor at Shimane University in Japan, Fulbright professor at Tribhuvan University in Nepal, Foundation Visitor at the University of Auckland, and distinguished scholar in residence at the University of Victoria. Julie was the author and editor of numerous books, articles, and chapters on inter- and transdisciplinary research, and education. She was president of the Association for Interdisciplinary Studies and a recipient of the Kenneth Boulding Award for outstanding scholarship on interdisciplinarity. Her openness to share her experience with uncountable scholars from all career stages around the world was outstanding. Julie's death is a tremendous personal and intellectual loss.

Giedre Kligyte's expertise is in transdisciplinary education. In her research, she investigates how university education can be transformed to advance more sustainable and socially just futures. In particular, Giedre explores how different perspectives and relationships across boundaries can be creatively leveraged to create third spaces: spaces where difference, experimentation, and co-creation are embraced to stimulate mutual learning, new ways of thinking, and creativity. Giedre has worked in universities across three continents and five national higher education systems.

Tibor Koltay, after having worked as an information professional, began teaching Library and Information Science at various universities in Hungary, first part-time, then for 15 years full-time. He has always enjoyed writing professional papers and books, as much as he loves listening to good classical music and blues.

Kerstin Kremer is a researcher in science education at Justus Liebig University Giessen. She is involved in biology teacher education and research about various challenges of science education in the 21st century, like the reflection of the interplay between science and society and the role of data literacy and sustainability literacy for future citizens. When traveling, Kerstin loves to visit art exhibitions.

Ines Langemeyer conducts research in the fields of science education, the philosophy of education, educational psychology, and vocational education at the Karlsruhe Institute of Technology. She focuses on teaching and learning relations research, exploring the many roles digital and other modern technologies play in mediating developing knowledge. Ines is interested in daily learning practices, and epistemic cultures in higher and other adult education. In her research, she draws on historical and critical psychological theorizing.

Martine Legris has always been a keen and curious observer of the world around her, even as a child. As an adult, she was drawn to history and sociology. Martine studied both disciplines at university and began to practice participatory action research. Unable to remain in a single discipline, she began to work in interdisciplinary teams, using both social and engineering sciences. Martine now works at the University of Lille and is part of the its science shop. She loves dancing, a fun way to recharge.

Bem Le Hunte is an internationally published novelist and Director of Teaching and Learning in the TD School at the University of Technology Sydney. She draws on creative, cultural, and spiritual wisdom for her work as the Course Director of the Bachelor of Creative Intelligence and Innovation – a transdisciplinary degree that combines with 25 other degrees. She describes herself as a liminal human – half Indian, half English, and Australian by choice, and advocates for human unity in all her work.

Marlene Mader works as a lecturer and research assistant in the Transdisciplinarity Lab at ETH Zurich. She is responsible for a stakeholder- and project-oriented sustainability lecture for first-year bachelor students in environmental sciences. Marlene has a background in Environmental Systems Sciences and is engaged in higher education for sustainable development since 2009. Her family runs a small apiary in a mountain village.

Sonia Massari has more than 20 years of experience as an educator, researcher, consultant, and designer in the fields of human–food interaction design, sustainability education, design thinking, and creative methods for innovative agri-food systems. She is a research fellow in the Department of Agriculture, Food and Environment at the University of Pisa, co-founder of FORK Food Design, and the director of the Food Future Institute's academy. Sonia loves exploring the world through the sincere and creative eyes of her two amazing children.

Kaisa Matschoss works as a university researcher at the University of Helsinki in the Centre for Consumer Society Research. Her research interests lie in tensions in the everyday life of citizens in energy transition, (living lab approaches to) ex-

perimentation and innovation in the energy sector, including sustainable household practices, as well as policies for sustainable consumption. Kaisa likes to hug trees and talk to flowers, butterflies, and bees.

Jacqueline Melvold is a passionate scientist, educator, and transdisciplinary practitioner who aims to create more desirable and sustainable futures via the transformation of education that can empower young people. Her research focuses on the future of education, where she explores innovative and creative approaches to create a space for mutual learning between educators, academics, students, and professional partners. In her spare time, Jacqueline can be found kayaking in the National Parks in Australia.

Jimlea Nadezhda Mendoza is from the Philippines, daughter of a fisherman and public-school teacher. She works at Ca' Foscari University of Venice, is passionate about exploring the local ecological knowledge of fishers and about contributing to building bridges between academia and local communities through storytelling, conveying the acquired oral histories about the freshwater resources to a wider audience. Jimlea loves to eat fish all day long.

Juliana Merçon was born and raised in Brazil but has lived for the past 12 years in Mexico. She studied psychology, philosophy, and education, before exploring the field of agroecology. Collaborating towards social and environmental justice is at the heart of her (academic) life. For Juliana, transdisciplinarity and participatory action research are not only epistemological approaches as they also entail ways of being and deeply connecting with people, places, and time. Her eight-year-old daughter Michelle is her main source of fun, learning, and inspiration.

Esther Meyer was born in Fürth, and has a background in philosophy, economics, and sustainability sciences. She is committed to supporting transdisciplinary change agents and those who move at the institutional boundaries of education by teaching, knowledge systematization, consultation, creating networks, and methodological accompaniment. As a lifelong learner, Esther completed training in organizational development and consultancy. As a passionate dancer, she has recently started going to football stadiums to watch fan choreographies.

Joost Meyer discovered his scientific focus through his work at the forest lab *Waldlabor* in Cologne. With a team of young scientists, he founded the *Willowprint* project, where he and his colleagues seek for sustainable biogenic materials for 3D printing. In addition to his work for science and teaching, Joost uses sculptural means to explore the meaning of the natural environment in human perception. He enjoys the Scandinavian summer in Denmark's North Jytland, swimming in the rain.

Stefanie Meyer has been leading the Case Study Office at Leuphana University in Lüneburg since 2019. She is responsible for the coordination and further development of the structural and content-related conception of case studies in the areas of transdisciplinary research and teaching in bachelor and master programs at the School of Sustainability.

Ewald Mittelstädt has been a founder since his youth. Later he studied business management, slavistics, political science, and public law in Münster as well as Economics in Krakow. At TU Dortmund, he worked in teacher education and did research on chaos theory. Following postdoctoral positions in Freiburg and Kiel, Ewald now teaches and conducts research at South Westphalia University of Applied Sciences in Iserlohn. Ewald is interested in contemporary and street art and feels dedicated to the maxim: Life is as colorful as you dare to paint it.

Manon Mostert-van der Sar is director of Stadslab Rotterdam, the fab lab of Rotterdam University of Applied Sciences, and author of *Hey Teacher, Find Your Inner Designer*. Manon is a maker and designer of education. She trains teachers, coaches instructors, designs cross-institute modules, and developed a didactic compass, but still loves to teach students. At home Manon is a real maker, rebuilding her own farmhouse. She is not afraid of bricklaying, sawing, milling, and all kinds of carpentry.

Daniel Münsterlein is a trained landscape architect. His research focuses on the perception and further development of urban landscapes and the integration of productive open-space systems. Special attention is paid to the interrelationships between landscape, health, and well-being as well as the development of innovative methods for visual communication in spatial planning. Daniel loves taking pictures of urban landscapes and plays the electric guitar louder than the neighbors would like.

Olena Mykolenko works as a lecturer and researcher in the field of entrepreneurship at Karasin University in Kharkiv. She is currently doing her post-doctoral research on humane entrepreneurship with a special focus on leadership and sustainability. Olena is also involved in a European research project on sustainability thinking and entrepreneurship. She likes theater, and – despite challenging circumstances – she regularly visits it in her city together with her lovely daughter.

Oliver Parodi, philosopher, cultural scientist, and civil engineer, is head of the Karlsruhe Transformation Center for Sustainability and Cultural Change at the KIT Institute for Technology Assessment and Systems Analysis. As an expert in transformative sustainability research, he was the initiator and has been director

of the real-world lab *Quartier Zukunft – Labor Stadt* since 2012. A matter close to his heart is personal sustainability in research and teaching – but in private, he is still far away from achieving it.

BinBin J. Pearce is an assistant professor for policy analysis and design at TU Delft's Faculty of Technology, Policy and Management. Her transdisciplinary research interests include public participation processes and policy design for the energy transition, collaborative decision making for sustainable development, joint problem-framing processes, and developing curriculum based on integrated systems and design thinking.

Daniela Peukert has a background in product design and sustainability sciences and holds the professorship of design for sustainability transformation at Tomorrow University of Applied Sciences in Berlin. In her research, she explores prototyping practices and material metaphors to foster integration and knowledge co-production within transdisciplinary processes and works towards a more-than-human-centered-design approach. Daniela enjoys being outdoors on boards and bikes.

Jonas Pfister came to philosophy through conversations during adolescence, stayed with it because of a guy who talked about the philosophy of Paul Grice – a topic which eventually became one of his main areas of research. He taught for several years at the universities of Berne, Lucerne, and others, and is now teaching at the University of Innsbruck. He is the author of introductions to philosophy, to philosophical methodology, and to critical thinking – all in German. He hopes to write more.

Thorsten Philipp studied Romance languages, art history, and political science in Munich, Aix-en-Provence, Vienna, and Brescia. As an advisor to the presidium at TU Berlin, his mission is to promote transdisciplinary learning. A lecturer with a non-disciplinary agenda at various universities, such as the University of Freiburg, Thorsten explores pop music as a sounding board for sustainability communication. Background music by Dat Adam, Monolink, PNL, Tommy Guerrero, and Nils Petter Molvær accompanied him while working on this handbook.

Roland Postma is a geographer, storyteller, and professional video-maker. He has been researcher, director, and editor-in-chief of a number of leading programs for Dutch National Television for children and series about science and nature. He also gives on-location and online training courses to students, and public and private organizations. Roland's emphasis is on telling stories with content that matter: Stories that captivate the viewers in such a way that they are willing to listen to the message.

Monique Potts is a learner, thinker, teacher, mother, and healer whose research focuses on understanding resilience and experiential learning for young people in the context of uncertain futures and climate disruption. Her background is in public media, education, and digital media. Living on Gadigal land of the Eora Nation in the inner west of Sydney, Monique has a long and checkered work background, including dressing up as a koala to collect money for wildlife, being a clown, and fire-eating.

Susanne Pratt is a transdisciplinary artist, educator, and researcher working at the intersection of foresight, environmental change, and transdisciplinary learning. Her recent research focuses on participatory arts-led means of reimagining practices of care, multi-species relations, and regenerative futures. She grew up on a kiwifruit orchard in Aotearoa and currently lives and works in Australia on unceded Gadigal Land.

Baiba Prūse is research associate at Vrije Universiteit Amsterdam, where her work involves discussions regarding public engagement in research, food systems, and local ecological knowledge aspects. She is also a coach for the course on interdisciplinary community service learning and is eagerly following the student knowledge exchange on the course topics. Collaboration is the motto of Baiba's approach to life and this process is directly reflected in her work. Part of her contribution to this book received funding from the European Research Council under the EU Horizon 2020 research and innovation program.

Sanjeet Raj Pandey is a skilled full-stack software developer and graduate in computer science. As a research associate in the service-centric networking at TU Berlin, he teaches in the field of web-technology and his research is focused on Web3 for privacy in digital systems. Sanjeet is the head of software engineering in the sustainability education startup *PROSUMIO* and a core member of the *Sustainable Handprint* project lab at TU Berlin. Sanjeet loves to use fast carsharing with his friends.

Eliana Rodrigues is a dedicated researcher in the areas of Ethnobotany and Ethnopharmacology at the Federal University of São Paulo. She coordinates the activities of the Center for Ethnobotanical and Ethnopharmacological Studies. Eliana has dedicated her studies to the area of traditional use and management of medicinal plants, from the perspective of participatory ethnobotanism. She loves making mosaics on the walls of her house.

Katie Ross is curious about ways to facilitate change towards more beautiful, equitable futures. As a transdisciplinary writer and facilitator at *Soils for Life*, and an adjunct fellow at the University of Technology Sydney, she integrates transforma-

tive learning processes into collaborative transdisciplinary action learning. One of the best perks in Katie's role is meeting incredible farmers and experiencing their delicious food, grown in living soils, brimming with the nutrients we need.

Sara Roversi is an author, entrepreneur, public speaker, and activist. She has been a serial entrepreneur since 2003, formulating multiple for-profit and not-for-profit ventures. In 2010, Sara shifted her focus onto sustainable food systems to increase awareness and understanding through education, research projects, and innovation challenges. She loves connecting and working with people and organizations on food systems transformation and radical change.

Alexander Ruser is professor of Sociology and Director of the Centre for Digital Transformation at the University of Agder in Kristiansand. His research focuses on the social role of expertise and the impact of scientific knowledge on environmental discourses and climate politics. Alex owns too many guitars and always keeps an emergency half-acoustic in his office.

Olivia Rützi-Joy is a senior researcher at the Université de Fribourg and the research assistant of the rector at the St. Gallen University of Teacher Education. Building on her background in Media Studies, English Literature, and English language teaching, she now pursues research in foreign language teaching and learning, applied linguistics, language testing, educational assessment, and teacher education. If she's not behind her screen, Olivia is most likely somewhere in the mountains.

Lyda Patricia Sabogal-Paz is an associate professor at São Carlos School of Engineering, University of São Paulo. Her research is centered on selection, design, and assessment of drinking water treatment for small and medium-sized communities. She has a strong record on water research with a focus on technology assessment and economic evaluation. Brazilian and United Kingdom research councils have been financing her research. Lyda enjoys traveling and discovering new cultures.

Jennifer Schluer is an assistant professor for Teaching English to Speakers of Other Languages and Advanced Academic English at Chemnitz University of Technology. As an applied linguist and teacher educator, she specializes in digital teaching and digital feedback methods as well as in language awareness, multilingualism, and culture learning. Jennifer can be a cat or cow and a dog or dolphin, but has never turned into a camel or crow on her yoga mat so far.

Marco Schmitt is a sociologist with a strong background in network research and theory working at the Chair of Sociology of Technology and Organization at RWTH Aachen University. He has worked in a variety of transformation and inno-

vation projects involving public administration, industry, politics, research, and civil interest groups. For Marco, transdisciplinary thinking is the most striking success factor in enabling change, but so hard to achieve.

Stephan Schmidt-Wulffen is senior professor for Art Theory at the Free University Bozen-Bolzano. As the head of the Academy of Fine Arts Vienna – among others – for many years he developed university programs in art and design. His research focuses on artistic practice and its history since the early 20th century.

Tobias Schmohl is passionate about the transformative potential of learning. He believes that by fostering critical thinking we can empower individuals to make positive impact on the world around them. Tobias has spent years exploring the intersection of higher education and education research to better understand how to create meaningful learning experiences. His children's love for inquiry-based projects, exploring their passions, inspired him to pursue progressive and avant-garde teaching and learning methods.

Erika Solimeo is an environmental legal specialist. She focused her earlier career on global water policy and the human right to water, which evolved toward an analysis of marine conservation and ocean ecosystems. At the Future Food Institute in Rome, she directly followed topics such as nutrition, climate change, earth regeneration, Mediterranean diet, water safety, and security. Erika has always been known in the family as Don Chiscotte for having a soft spot for the hard causes.

Alexander Sonntag works as a research assistant at the Living Labs Incubator of the Human Technology Center at RWTH Aachen University. He is currently participating in the project *TRANSFER* in which he is observing mechanisms of knowledge transfer in Living Labs. Alexander Sonntag studies Governance of Technology and Innovation at RWTH Aachen University.

Anja Steglich is a landscape architect and consultant for urban transformation and transfer. She has many years of experience in transformative research and transdisciplinary teaching. Anja coordinates the development of TU Berlin's *Stadt-Manufaktur*, a platform and center for Living Labs in the Executive Board of the TU of Berlin. Her work focuses on urban transformation, water-sensitive design strategies, and productive infrastructure development. Anja develops stage designs and learns from dance.

Sadaf Taimur is a researcher exploring how to create effective learning processes and environments for sustainability that lead to individual and organizational

transformation. She has researched transformative learning approaches to improve pedagogies in Higher Education for Sustainability at the University of Tokyo. In addition, Sadaf is interested in reading non-fiction and exploring different perspectives and cultures.

Wing-Shing Tang's research interests focus on experimenting mainstream urban thinkers with socio-historical processes and patterns of urban development in Hong Kong, mainland China, and India, and, concomitantly, formulating new ontology, epistemology, and methodology for this cause. Teaching high-school students on the spatial dialectics of injustice had been experimented with in Hong Kong by taking them around urban communities on local tours.

Ewald Terhart is professor Emeritus in the Institute of Educational Science at the University of Münster. His academic fields are research on teaching and general didactics, as well as teacher professionalism and teacher education. He serves on the editorial boards of several academic journals in these research areas. Due to his expertise in teacher education, he has been a member or chair of several commissions on the evaluation and reform of teacher education in Germany and other European countries.

Axel Timpe is a landscape architect and research and teaching associate at RWTH Aachen University's Institute of Landscape Architecture. He is coordinating *H2o2o IA proGReg*, the transdisciplinary green infrastructure research project *CoProGrün*, and had a coordinating role in *COST Action Urban Agriculture Europe*. Axel's research focus is on green infrastructure, nature-based solutions, and urban agriculture and their co-production with local stakeholders. In addition to design studio teaching, Axel developed the edX MOOC *Nature-Based Urban Regeneration*.

Peter Troxler is a research professor at Rotterdam University of Applied Sciences. He studies how digital technologies enable new ways of designing and manufacturing and challenge and influence incumbent practices in industry and education. Peter has worked internationally in the energy industry, as a design consultant, and in higher education. He enjoys photographing weird inner-city moments and sharing them with the world.

Valentin Unger is a senior researcher at St. Gallen University of Teacher Education. His research interests stem from his dual role as a teacher and researcher. Valentin's research focuses on the empirical study of educational learning processes, especially in language subjects, research on the teaching profession, and research on the impact of crises on education. Besides his very cool research job, he has an even cooler hobby: classical music.

Karen van den Berg is professor of Art Theory and Curating at Zeppelin University in Friedrichshafen, and head of the university's arts program. Research and fellowships have taken her to international universities and research institutions, including the Chinati Foundation in Marfa, IKKM Bauhaus University in Weimar, and the Department of Comparative Literature at Stanford University. Karen's research focuses on art, politics, and activism; artistic episteme and studio practice. She is a real mother animal.

Laura Verbrugge is an environmental scientist aiming to improve collaborations across disciplines and especially between the natural and social sciences. She developed educational material about invasive alien species for Dutch (vocational) schools and coordinated communication and monitoring campaigns between government and stakeholder organizations. Currently, Laura works as a grant writer at Aalto University.

Matteo Vignoli is building the future through research, education, and business all centered on the application of design thinking experimenting with the world-renowned *Reggio Approach* in higher education. He is associate professor at Università di Bologna, teaches in several master programs and business schools, and works on innovation projects with global organizations. According to Matteo, involving the client and future user during co-design sessions is the secret sauce of the world's most visionary companies.

Ulli Vilsmaier grew up in the Austrian Alps and has a background in Geography. She conducts and studies inter- and transdisciplinary research and higher education. Her work is based on a responsive logic and emphasizes complementarities between different ways of knowing, acting, and being. Ulli accompanies teams of researchers and educators in transforming research and higher education towards inter- and transdisciplinarity. While her professional life allows her to travel and learn with colleagues from different world regions, she loves to spend her spare time mountaineering in the Alps.

Maximilian Voigt works for the Open Knowledge Foundation Germany on the topics of Open Education and Open Hardware. He is focused on the potential of open technologies and infrastructures for the circular society. Maximilian is a board member of the Association of Open Workshops – the German umbrella organization of makerspaces – and studied engineering, journalism, and the philosophy of technology. When he is not writing, he sings in a choir, repairs things, or sails the Baltic Sea.

Johannes Vollbehr is an experienced carpenter and purpose entrepreneur. At TU Berlin, he studies vocational education, being a scholar in the professional talents program of the German Federal Ministry of Education and Research. Johannes works as head of business development for the sustainability education startup *PROSUMIO*. In 2020, he initiated and facilitated the project lab *Sustainable Handprints* together with his colleagues at TU Berlin. Johannes loves to ride his bike on Berlin's roads, being part of the critical mass.

Hildrun Walter is a researcher at the University of Graz with her research interests in science communication at the interface to science education. She is particularly dedicated to evaluating communication programs in order to assess their potential to evoke emotions and foster scientific interest. She is concerned with the reflection of open science practices and participatory approaches in research. Like a herb lady, she loves to spice up the vegetables from the garden in colorful dishes.

Christine Wamsler is professor at Lund University Centre for Sustainability Studies and Director of the Contemplative Sustainable Futures Program. She is an internationally renowned expert in sustainable development and associated (material and cognitive) transformation processes, with 25 years of experience, both in theory and practice. Christine has led many international projects and published more than 200 papers and book chapters on these issues. She draws inspiration from nature and her two children, who help her daily take better care of spiders, flowers, and the world at large.

Hendrik Weiner researches urban transformation and co-design processes and develops concepts and projects for the collaborative development of urban spaces. He organizes transdisciplinary working and teaching settings to connect practice and theory, students with citizens, universities with cities. He teaches at the Brandenburg University of Technology Cottbus-Senftenberg and at the Otto-von-Guericke-University Magdeburg and runs the office *raumdialog*. Hendrik enjoys bicycle tours with his two children.

Annika Weiser is coordinating the sustainability-focused responsibility module for all first-year students at Leuphana University Lüneburg. With a background in transdisciplinary sustainability research, she has long been working – and teaching – in various transdisciplinary research projects such as *Lüneburg 2030+*. She invests large parts of her spare time in trying to grow, with varying success, the best pimientos de padrón north of the Alps.

Christina West, a geographer, philosopher, and artist, founded the *Energy Academy* in DELTA, an experimental real-world lab of the energy transition, for the

University of Applied Sciences Darmstadt. She is Chairwoman of Urban Innovation-Rethinking City. At Heidelberg University, she headed two real-world labs, was interim professor for the Didactics of Geography at Koblenz-Landau University, and visiting scholar at EUAP Hong Kong Baptist University. Her favorite mode is exploring the world while dancing.

Ulrike Weyland is a professor in the Institute of Educational Science at the University of Münster. Her research focuses on teacher professionalism and teacher education, competence modeling and measurement, career orientation, and digitization, with a special focus on vocational education in the health care professions and their educational personnel. She serves on the editorial boards of academic journals in these research areas. In addition, she has served on various commissions as an expert on issues related to the design of internships in teacher education.

Mary Whalen was the managing director of EPIZ – Center for Global Education in Berlin until 2019. Presently, her work focuses on international dialog forums on the implementation of Global Education, fostering a critical discussion of Global Citizenship Education in European civil society, and biographical approaches to feminist civic education. She divides her time between the magical Wet Tropics in Queensland and the pulsating diversity of the city of Berlin.

Claudia Wiepcke studied economics, Slavic studies, and politics at the University of Münster, where she also received her doctorate. She worked as a research assistant at TU Dortmund and has been professor of Business and Economic Education since 2008. Claudia researches and teaches at the University of Education in Karlsruhe. She is interested in art and creates content about art and museums.

Johannes Wildt studied Psychology, Pedagogy and Sociology. Since 1970 he has worked as a professional educationalist and academic developer at different universities, mainly at TU Dortmund, heading its Center for Teaching and Learning. Johannes put his main emphasis on innovative learning concepts like project-oriented studies and transformative learning, participatory curriculum development, learner-centered further education, and consulting. He likes to dance at a lot of weddings.

Tyson Yunkaporta is an academic, an arts critic, and a researcher who is a member of the Apalech Clan in far north Queensland. His work focuses on applying Indigenous methods of inquiry to resolve complex issues and explore global crises. He carves traditional tools and weapons and also works as a senior lecturer in Indigenous Knowledges at Deakin University in Melbourne.

Eike Zimpelmann's research is mainly focused on the fields of vocational teacher education and the subjective perception teachers develop regarding their academic disciplines and their work. Further, he is interested in vocational didactics, education policy, and education for sustainable development. Eike is passionate about understanding how people construct their reality. Probably, that's why he likes spending his time with roleplaying games where he can try out behaving like other people.