

# Prof. Dr. Monika Egerer

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## Current Appointment

2020- Assistant Professor in Urban Productive Ecosystems, Technical University of Munich

## Education and Qualifications

2019 Ph.D., University of California, Santa Cruz, Environmental Studies  
Advisor: Prof. Stacy Philpott

2017 M.Sc., University of California, Santa Cruz, Environmental Studies  
Advisor: Prof. Stacy Philpott

2013 B.A., Kalamazoo College, MI, Major Biology, Concentration in Environmental Studies

## Research & Teaching Interests

Ecology, biodiversity, agroecology, urban ecology, insect ecology, climate change, food systems

## Professional/Research Appointments

2022- Adjunct Lecturer, UniLaSalle Institut Polytechnique, France  
2021-2023 Adjunct Fellow, Centre for Urban Transitions, Swinburne University of  
Technology, Melbourne, Australia  
2019-2020 Research Associate / Postdoctoral Fellow, Institut für Ökologie / Department of  
Ecology, Ecosystem Science / Plant Ecology, Technische Universität Berlin  
2018-2019 Adjunct Researcher, School of Technology, Environments and Design, University  
of Tasmania, Hobart, Australia  
2016-2019 Doctoral Candidate, Environmental Studies, University of California, Santa Cruz  
2016-2019 NSF Graduate Research Fellow, University of California, Santa Cruz  
2017-2018 Visiting Research Fellow, School of Ecosystem and Forest Sciences, University  
of Melbourne, Burnley Campus, Melbourne, Australia  
2016-2018 Graduate Pursuit Fellow, National Socio-Environmental Synthesis Center  
2014-2016 Teaching Assistant, Environmental Studies, University of California, Santa Cruz  
2015 Research Assistant, UC-MEXUS Urban Agroecology Research Exchange,  
University of California, Santa Cruz  
2013-2014 Research Assistant, Primatology Dept., Max-Planck Institute for Evolutionary  
Anthropology, Leipzig, Germany  
2013-2014 Fulbright Teaching Fellow, Fulbright Program  
2012-2013 Teaching Assistant, Biology Department, Kalamazoo College

- 2012-2013 Research Assistant, Ecology of Bird Loss (EBL) Project, Guam and the Commonwealth of the Northern Mariana Islands
- 2012-2013 Citizen Science Program Coordinator, Kalamazoo Nature Center, Kalamazoo, MI
- 2012 winter Research Assistant, Forest Restoration Research Unit, Chiang Mai, Thailand
- 2011 summer Research Fellow, Pierce Cedar Creek Institute, Hastings, MI

## **Research Support and Funding**

### ***Fellowships***

- 2019 International Postdoctoral Initiative (IPODI), Technische Universität Berlin and Marie Skłodowska-Curie Actions COFUND Programme of the European Commission, EU
- 2017 Graduate Research Opportunities Worldwide Fellow, US National Science Foundation, USA
- 2016 NSF Graduate Research Fellowship, US National Science Foundation, USA
- 2016 SESYNC Graduate Pursuit Fellowship, National Socio-Environmental Synthesis Center, Annapolis, MD, USA
- 2014 Regents Fellowship, University of California, Santa Cruz, USA
- 2013 Fulbright Fellowship, US Teaching Assistantship Program to Germany, USA

### ***Research grants***

- 2023 BMBF: “Soundscapes across cityscapes: relationships among biodiversity, sound, and human health in urban green infrastructure (CitySoundscapes)”, PI and coordinator (Co-PIs: Prof. Dr. Peter Annighöfer, Prof. Dr. Stephan Pauleit (TUM); Prof. Dr. Michaela Coen, Dr. Gisela Immich (LMU); Prof. Dr. Andre Fiebig (TU Berlin)), funding period: 6/2023–5/2024 (phase 1); 07/2024 – 06/2027 (phase 2). Funds: 99.624€ (phase 1); ca. 999.755€ (phase 2, to be applied for in full proposal)
- 2023 DFG: “City bees under stress? Interactive effects of urbanization factors on bees and pollination”, PI and coordinator (Co-PI: Prof. Dr. Sara Leonhardt (TUM)), funding period: 10/2023–09/2026. Funds: 273.169€ (Total: 498.440€)
- 2023 EuroTech Visiting Researcher Programme: Technion Technical University of Israel, EuroTech University Alliance, PI (Co-PI: Prof. Dr. Assaf Shwartz, Technion), funding period: 4/2023–12/2023. Funds: 2.000€.
- 2023 TUM Global Incentive Fund: “Bridging Urban Forestry Research and Teaching Across Borders”, PI (Co-PIs: Dr. Sara Barron (UBC) and Prof. Dr. Alessandro Ossola (UC Davis)), funding period: 2/2023–1/2024. Funds: 9.180€.
- 2022 Bayerisches Staatsministerium für Ernährung, Landwirtschaft und Forsten: „Streuobstwiesen im Klimawandel (StreuWiKlim)“, PI and coordinator (Co-PI: Prof. Dr. Markus Reinke (HSWT)), funding period: 10/2022–9/2025. Funds: 319.075€.
- 2022 Bayerisches Staatsministerium für Umwelt und Verbraucherschutz, Bayerisches Staatsministerium für Gesundheit und Pflege: „Stadtoasen im Klimawandel - Untersuchungen zur sozial-ökologischen Bedeutung von Stadtgrün für das Wohlbefinden (StOasenWandel)“, PI and coordinator (Co-PIs: Prof. Dr. Peter Annighöfer, Prof. Dr. Michael Suda (TUM)), funding period: 4/2022–3/2025. Funds: 299.972€.
- 2022 DFG RTG: “Urban Green Infrastructure – Training Next Generation Professionals for Integrated Urban Planning Research”, Co-PI (PI: Prof. Dr. Stephan Pauleit (TUM); Collaborators: 11 TUM Profs), funding period: 4/2022–4/2027. Funds: 1.329.406€

- 2021 Postcode Lotterie: „Gärtner forschen für Wildbienenchutz in der Stadt“, PI and coordinator (Co-PI: Ulrike Sturm (MfN Berlin)), funding period: 8/2021–3/2023. Funds: 236.651€.
- 2021 Hans Eisenmann-Forum für Agrarwissenschaften, HEF Seed Fund: „Interdisciplinary approaches to assess biodiversity and ecosystem services in urban agriculture“, PI and coordinator (Co-PI: Prof. Dr. Kang Yu (TUM)), funding period: 7/2021–7/2022. Funds: 24.600€.
- 2020 Heidehof Stiftung GmbH: “Bürgerforschung zum Wildbienenchutz in der Stadt: Entwicklung von evidenzbasierten Naturschutzmaßnahmen in Gemeinschaftsgärten”, PI and coordinator (Co-PI: Ulrike Sturm (MfN Berlin)), funding period: 1/2020–12/2021. Funds: 23.930€.
- 2019 International Postdoctoral Initiative (IPODI): Technische Universität Berlin. PI (Supervisor: Prof. Dr. Ingo Kowarik), funding period: 8/2019–8/2021. Funds: 10.000€.

### ***Small student grants***

- 2018 Heller Agroecology Graduate Student Research Grant, University of California, Santa Cruz
- 2017 Graduate Research Opportunities Worldwide, National Science Foundation
- 2017 Kathleen S. Anderson Award, Manomet, Inc.
- 2017 Heller Agroecology Graduate Student Research Grant, University of California, Santa Cruz
- 2017 Carbon Fund Grant, University of California, Santa Cruz
- 2016 UCSC Blum Scholars Grant, UCSC Blum Center, University of California, Santa Cruz
- 2016 Heller Agroecology Graduate Student Research Grant, University of California, Santa Cruz
- 2015 Community Stories Grant, California Humanities
- 2015 Annie’s Homegrown Sustainable Agriculture Scholarship, Annie’s Homegrown
- 2015 UC MEXUS Small Grant, University of California
- 2015 Heller Agroecology Graduate Student Research Grant, University of California, Santa Cruz
- 2015 Environmental Studies Graduate Research Grant, University of California, Santa Cruz
- 2013 McColl Travel Grant, Biology Department, Kalamazoo College
- 2012 Howard Hughes Medical Institute Undergraduate Research Grant
- 2011 Undergraduate Research Grant for the Environment, Pierce Cedar Creek Institute

### **Awards**

- 2022 Nomination for the DFG–Heinz Maier-Leibnitz-Preis, TUM School of Life Sciences
- 2020 EE 30 Under 30, North American Association for Environmental Education
- 2019 Top 20 most read paper of 2017-2018, Ecological Applications, John Wiley & Sons Inc.
- 2019 Sustainability Travel Award, Sustainability Editorial Board, MDPI
- 2016 Teaching Assistant of the Year Award, Environmental Studies Dept., University of California, Santa Cruz
- 2013 Phi Beta Kappa, Undergraduate Senior Honor Society for Scholarly Achievements
- 2013 H. Lewis Batts Prize, Biology Dept., Kalamazoo College
- 2013 Senior Leadership Recognition Award, Kalamazoo College

- 2011 All-Academic Honors for Scholar Athletes, Intercollegiate Tennis Association  
 2010 Margo Light Award, German Dept., Kalamazoo College  
 2009 Enlightened Leadership for Sustainability and Environmental Activism Scholarship, Kalamazoo College  
 2009 Presidential Scholarship, Kalamazoo College

## **Publications**

*Total publications: 63 (40 indexed); First author: 28; Citations (ISI): 639; h-index (ISI): 16*

### ***Peer-reviewed***

- Tomatis F, **Egerer M**, Correa-Guimaraes A, Navas-Gracia LM. (2023) Urban Gardening in a Changing Climate: A Review of Effects, Responses and Adaptation Capacities for Cities. *Agriculture*. 13(2):502. <https://doi.org/10.3390/agriculture13020502>
- Raum S, Collins CM, Urquhart J, Potter C, Pauleit S, **Egerer M**. (2023). Tree insect pests and pathogens: a global systematic review of their impacts in urban areas. *Urban Ecosystems*, 1-18.
- Jha S, **Egerer M**, Bichier P, Cohen H, Liere H, Lin B, et al. (2023) Multiple ecosystem service synergies and landscape mediation of biodiversity within urban agroecosystems. *Ecol Letters*. <https://onlinelibrary.wiley.com/doi/10.1111/ele.14146>
- Felderhoff J, Gathof A, Buchholz S, **Egerer M**. (2022) Vegetation complexity and nesting resource availability predict bee diversity and functional traits in community gardens. *Ecological Applications*
- Egerer M**, Philpott S (2022) ‘Tidy’ and ‘messy’ management alters natural enemy communities and pest control in urban agroecosystems. *PLOS ONE*
- Straka TM, Bach L, Klisch U, **Egerer M**, Fischer LK, Kowarik I. (2022) Beyond values: how emotions, anthropomorphism, beliefs and knowledge relate to the acceptability of native and non-native species management in cities. *People and Nature*. 1-15. doi:10.1002/pan3.10398
- Ong TW, Lin BB, Lucatero A, Cohen H, Bichier P, **Egerer M**, ... & Liere H. (2022). Rarity begets rarity: Social and environmental drivers of rare organisms in cities. *Ecological Applications*. 776-780. doi: 10.1002/eap.2708
- Egerer M** (2022) Bee discovery suggests the importance of urban gardens in a changing world. *Renew Agric Food Syst* 1–4. doi: 10.1017/S1742170522000199
- Kingsley J, Diekmann L, **Egerer M**, Lin BB, Ossola A, & Marsh P. (2022). Experiences of gardening during the early stages of the COVID-19 pandemic. *Health & Place*, 102854. <https://doi.org/10.1016/j.healthplace.2022.102854>
- McMunn M, Hudson AI, Zemenick AT, **Egerer M**, Bennett L, Philpott SM, Vannette RL (2022) Thermal sensitivity and seasonal change in the gut microbiome of a desert ant, *Cephalotes rohweri*, *FEMS Microbiology Ecology*, 98, 7, <https://doi.org/10.1093/femsec/fiac062>
- Wagner B, **Egerer M** (2022) Application of UAV remote sensing and machine learning to model and map land use in urban gardens. *Journal of Urban Ecology* 1–12. doi: <https://doi.org/10.1093/jue/juac008>
- Korányi D, **Egerer M**, Rusch A, et al (2022) Urbanization hampers biological control of insect pests: A global meta-analysis. *Science of the Total Environment* 834:155396. doi: 10.1016/j.scitotenv.2022.155396

- Nolte AC, Buchholz S, Pernat N, **Egerer M** (2022) Temporal Temperature Variation in Urban Gardens Is Mediated by Local and Landscape Land Cover and Is Linked to Environmental Justice. *Front Sustain Food Syst* 6:1–11. doi: 10.3389/fsufs.2022.826437
- Seitz B, Buchholz S, Kowarik I, ... **Egerer M**. (2022) Land sharing between cultivated and wild plants: urban gardens as hotspots for plant diversity in cities. *Urban Ecosystems*. doi: 10.1007/s11252-021-01198-0
- Egerer M**, Lin BB. (2022) Balancing urban agriculture with sustaining ecosystem services. *CABI Reviews*. doi: 10.1079/cabireviews202217003
- Egerer M**, Lin BB, Kingsley J, Marsh P, Diekmann L, Ossola A. (2022) Gardening can relieve human stress and boost nature connection during the COVID-19 pandemic. *Urban Forestry & Urban Greening*. 68. <https://doi.org/10.1016/j.ufug.2022.127483>
- Cohen H, **Egerer M**, Thomas SS, Philpott S. (2021) Floral resources in urban landscapes constrain the trait and taxonomic diversity of wild bees. *Landscape Ecology*.
- Lin B, **Egerer M**, Kingsley J, Marsh P, Diekmann L, Ossola A. (2021) COVID-19 gardening may plant the seeds for a greener, healthier future. *Frontiers in Ecology and the Environment*. 19, 491–493.
- Sturm U, Straka TM, Moormann A, **Egerer M**. (2021) Fascination and Joy: Emotions Predict Urban Gardeners' Pro-Pollinator Behaviour. *Insects* 12, 785.
- Marsh P, Diekmann, LO, **Egerer M**, Lin B, Ossola A, Kingsley J. (2021) Where birds felt louder: The garden as a refuge during COVID-19. Wellbeing, *Health and Place*. 2: 100055.
- Egerer M**, Buchholz S. (2021) Reframing urban “wildlife” to promote inclusive conservation science and practice. *Biodiversity Conservation* 30(7).
- Zimmerer KS, Bell MG, Chirisa I, Duvall CS, **Egerer M**, Hung P, Lerner AM, Shackleton C, Ward JD, Yacamán Ochoa C. (2021) Grand Challenges in Urban Agriculture: Ecological and Social Approaches to Transformative Sustainability. *Front. Sustain. Food Sys* 5:1–8
- Egerer M**, Haase D, McPhearson T, Frantzeskaki N, Andersson E, Nagendra H, Ossola A. (2021) Urban change as an untapped opportunity for climate adaptation. *npj Urban Sustainability* 1:22.
- Kingsley J, **Egerer M**, Nuttman S, *et al.* (2021) Urban agriculture as a nature-based solution to address socio-ecological challenges in Australian cities. *Urban Forestry & Urban Green* 60: 127059.
- Egerer M** and Anderson E. (2020) Social-ecological connectivity to understand ecosystem service provision across networks in urban landscapes. *Land* 9(12)
- Kendal D, **Egerer M**, Byrne J, Jones, P, Marsh P, Threlfall C, Allegretto G, Kaplan H, Nguyen C, Pearson S, Wright A, Flies E. (2020) City-size bias in knowledge on the effects of natural urban environments on people and biodiversity, *Environmental Research Letters* 15(12)
- Egerer M** and Kowarik I. (2020) Confronting the modern Gordian Knot of urban beekeeping, *Trends in Ecology and Evolution* 1-4.
- Philpott SM, **Egerer M**, Bichier P, Cohen H, Cohen R, Liere H, Jha S, Lin BB. (2020) Gardener demographics, experience, and motivations drive differences in plant species richness and composition in urban gardens, *Ecology and Society* 25(4)
- Liere H, **Egerer M**, Sanchez C, Bichier P, Philpott SM (2020) Social context influence on urban gardener perceptions of pests and management practices. *Front Sustain Food Syst* 4:162.
- Buchholz S and **Egerer M**. (2020) Functional ecology of wild bees in cities: what we know about trait-urbanization relationships, *Biodiversity and Conservation* 1-23.
- Philpott SM, Lucatero A, Bichier P, **Egerer M**, Jha S, Lin BB, Liere H. (2020) Changes in

- natural enemy-herbivore networks along local and landscape gradients in urban agroecosystems, *Ecological Applications* 0: 1-13.
- Egerer M**, Lin B, Diekmann L. (2020) Nature connection, experience and policy encourage and maintain adaptation to drought in urban agriculture, *Environmental Research Communications* 2: 1-12.
- Egerer M**, Liere H, Lucatero A, Philpott SM. (2020) Plant damage in urban agroecosystems varies with local and landscape factors, *Ecosphere* 11(3): 1-19.
- Egerer M**, Fouch N, Anderson EC, and Clarke M. (2020) Socio-ecological connectivity differs in magnitude and direction across urban landscapes, *Scientific Reports* 10: 1-16.
- Egerer M**, Wagner B, Lin BB, Kendal D and Zhu K. (2020) New methods of spatial analysis in urban gardens inform future vegetation surveying, *Landscape Ecology* 1: 1-18.
- Egerer M**, Cecala JM and Cohen H. (2020) Wild bee conservation within urban gardens and nurseries: effects of local and landscape management, *Sustainability* 12: 1-10.
- Lin BB and **Egerer M**. (2020) Global social and environmental change drives the management and delivery of ecosystem services from urban gardens: a case study from Central Coast, California, *Global Environmental Change* 60: 1-10.
- Egerer M**, Ordoñez C, Lin BB, Kendal D. (2019) Multicultural gardeners and park users benefit from and attach diverse values to urban nature spaces. *Urban Forestry & Urban Greening* 46:1–14..
- Liere H, **Egerer M**, Philpott SM. (2019) Environmental and spatial filtering of ladybird beetle community composition and functional traits in urban landscapes, *Journal of Urban Ecology* 5(1): 1-12.
- Egerer M**, Lin BB, Kendal D. (2019) Towards better species identification processes between scientists and community participants, *Science of the Total Environment* 694: 133738
- Arnold JE, **Egerer M**, Daane KM. (2019) Local and landscape effects to biological controls in urban agriculture - A review, *Insects* 10: 1–10.
- Anderson EC, **Egerer M**, Fouch N, Clarke M, Davidson MJ. (2019) Growing local on the landscape: assessing patterns of community garden topology within and between Baltimore, Chicago, and New York City (USA), *Urban Ecosystems* 22(4): 671–681.
- Philpott S, Albuquerque S, Bichier P, Cohen H, **Egerer M**, Kirk C, Kipling W. (2019) Local and landscape drivers of carabid activity, species richness, and traits in urban gardens, *Insects* 10(112): 1-14.
- Egerer M**, Lin BB, Kendal D. (2019) Temperature variability differs in urban agroecosystems across two metropolitan regions, *Climate* 7(50): 1-18.
- Clarke M, Davidson MJ, **Egerer M**, Anderson EC, Fouch N. (2019) The underutilized role of community gardens in improving cities' adaptation to climate change: a review, *People, Place and Policy* 12(3): 241-251.
- Lin BB, **Egerer M**, Ossola A. (2018) Urban gardens as a place to engender biophilia: Evidence and ways forward, *Frontiers in the Built Environment* 4(79): 1-10.
- Ossola A, **Egerer M**, Lin BB, Setala HM, Rook G. (2018) Lost food narratives to promote human health in cities. *Frontiers in Ecology and the Environment* 16(10): 560-562.
- Egerer M**, Lin BB, Philpott S. (2018) Water use behavior, learning and adaptation to future change in urban gardens. *Frontiers in Sustainable Food Systems* 2(71): 1-14.
- Lin BB, **Egerer M**, Liere H, Jha S, Philpott SM. (2018) Soil management is key to maintaining soil moisture in urban gardens facing changing climatic conditions, *Scientific Reports* 8(1): 17565.

- Shellabarger R, Voss R, **Egerer M**, Chiang S. (2018) Challenging the urban-rural dichotomy in agri-food systems, *Agriculture and Human Values* 00: 1-13.
- Glowa KM, **Egerer M**, Jones V. (2018) Agroecologies of displacement: a study of land access, dislocation, and migration in relation to sustainable food production in the Beach Flats Community Garden, *Agroecology and Sustainable Food Systems* 00: 1–24.
- Egerer M**, Lin BB, Threlfall CG, Kendal D. (2018) Temperature variability influences urban garden plant richness and gardener water use behavior, but not planting decisions, *Science of The Total Environment* 646: 111-120.
- Egerer M** and Fairbairn M. (2018) Gated gardens: Effects of urbanization on community formation and commons management in community gardens, *Geoforum* 96: 61-69.
- Egerer M**, Li K, Ong TYW. (2018) Context matters: contrasting ladybird beetle responses to urban environments across two US regions, *Sustainability* 10: 1–17.
- Egerer M**, Liere H, Bichier P, Philpott SM. (2018) Cityscape quality and resource manipulation affect natural enemy biodiversity in and fidelity to urban agroecosystems, *Landscape Ecology* 33(6): 985-998.
- Egerer M**, Liere H, Lin B, Jha S, Bichier P, Philpott SM. (2018) Herbivore regulation in urban agroecosystems: direct and indirect effects, *Basic and Applied Ecology* 29: 44-54.
- Egerer M**, Ossola A, Lin B. (2018) Creating socio-ecological novelty in urban agro-ecosystems from the ground up, *BioScience* 68: 25-34.
- Egerer M**, Fricke E, Rogers H. (2018) Seed dispersal as an ecosystem service: Frugivore loss leads to decline of socially valued plant, *Ecological Applications* 28(3): 655-667.
- Egerer M** Philpott SM, Bichier P, Jha S, Liere H, Lin BB. (2018) Gardener well-being along social and biophysical landscape gradients, *Sustainability* 10(96): 1–14.
- Egerer M**, Philpott SM, Liere H, Jha S, Bichier P, Lin BB. (2018) People or place? Neighborhood opportunity influences community garden soil properties and soil-based ecosystem services, *Int. J. Biodivers. Sci. Ecosyst. Serv. Manag.* 14: 32–44.
- Coelho FC, Coelho EM, and **Egerer M**. (2018) Local food: benefits and failings due to modern agriculture, *Scientia Agricola* 75(1): 84–94.
- Lin BB, **Egerer M**, Liere H, Jha S, Bichier P, Philpott SM. (2018) Local- and landscape-scale land cover affects microclimate and water use in urban gardens, *Science of The Total Environment* 610: 570–575.
- Egerer M**, Arel C, Otoshi M, Quistberg R, Bichier P, Philpott S. (2017) Urban arthropods respond variably to changes in landscape context and spatial scale, *Journal of Urban Ecology* 3(1): 1-10.
- Crunchant AS, **Egerer M**, Zuberbühler K, Corogenes K, Leinert V, Köhl H. (2017) The application and potential of biometric software to generate baseline occurrence estimates in chimpanzee communities, *American Journal of Primatology* 79(3): 1-12.
- Egerer M**, Bichier P, Philpott S. (2017) Landscape and local habitat correlates of lady beetle abundance and species richness in urban agriculture, *Annals of the Entomological Society of America* 110(1): 97-103.

### ***Non-peer reviewed publications***

- Raum, S. Collins, C. M., Urquhart, J., Potter, C., Pauleit, S., **Egerer, M.** (2023) The impacts of tree insect pests and pathogens in urban settings. TREE Magazine, Institute of Chartered Foresters. (accepted, in press Spring, 2023)

- Raum, S. Collins, C. M., Urquhart, J., Potter, C., Pauleit, S., **Egerer, M.** (2023) Die vielfältigen Auswirkungen von Baumschädlingen und Pathogenen im urbanen Raum. Stadt und Grün. (accepted, in press Spring, 2023)
- Egerer M**, Conitz F, Neumann AE, Schäle N, Schmack J, Zahl V (2022) Kleingartenanlagen ökologisch und klimabewusst gestalten. Bundesverband Deutsche Gartenfreunde e.V.
- Suda M, **Egerer M** (2022) Winzl-Wälder als Strategie der Stadtbegrünung und als transdisziplinäres Lehr- und Forschungsfeld. *ANLiegen Natur* 44, 43–50.  
www.anl.bayern.de/publikationen
- Egerer M** (2022) Gärten in der Stadt: Ökosysteme für Mensch und Natur. *ANLiegen Natur* 44(1); www.anl.bayern.de/publikationen

### ***Books and chapters in books***

- Egerer M** and Cohen H. (2020) *Urban Agroecology: Interdisciplinary Approaches to the Science, Practice, and Movement*. CRC Press.
- Liere H and **Egerer M.** (2020) Ecology of Insects and Other Arthropods in Urban Agroecosystems, In: *Nature and Challenges of Urban Ecology*. Editor: Pedro Barbosa. CABI Books
- Lin BB and **Egerer M.** (2017) Urban agriculture: an opportunity for biodiversity and food provision in urban landscapes, In: *Urban Biodiversity: From Research to Practice*. Editors: Alessandro Ossola and Jari Niemelä. Taylor & Francis/Routledge, London, UK.

### ***Other publications and reports***

- Cortez SJ, **Egerer M**, Kingsley J, et al (2022) Gardening during COVID-19: Experiences from gardeners around the world. University of California - Davis, CA, USA.
- Egerer M (2021) Promoting urban ecosystem services: Evidence and ways forward. *Nodium*
- Kendal D, Flies E, Marsh P, Jones P, Threlfall C, **Egerer M** et al. (2019) Managing Urban Landscapes for Biodiversity Conservation and Human Health. Report, Hobart, Tasmania.
- Wick A, **Egerer M.** (2013) Taking flight and spreading wings in Michigan: evolution, objective & trajectory of the Michigan Butterfly Network. *Michigan Birds and Natural History* 20(3).
- Egerer M**, Girdler B. (2011) On the Edge: Imperiled butterfly monitoring in Southwest Michigan. Website edition, <http://www.cedarcreekinstitute.org/invertebrates.htm>.

### ***Work highlighted in the media***

- rbb Radio Eins (2023) Wie viel Wildnis braucht die Stadt? Podcast: Wissen Impossible.  
[https://www.radioeins.de/archiv/podcast/wissen\\_impossible.html](https://www.radioeins.de/archiv/podcast/wissen_impossible.html)
- Science (2022) Urban Oasis: In Berlin, pioneering research into urban ecology has found surprising biodiversity in the city's green spaces.  
<https://www.science.org/content/article/pioneering-urban-ecology-finds-surprising-biodiversity-berlin-s-green-spaces>
- 3sat (2022) Ökosystem Garten – wie Mensch und Natur profitieren.  
<https://www.3sat.de/wissen/wissenschaftsdoku/221013-sendung-wido-104.html>
- Jewell J (2022) National Pollinator Week, Summer Solstice & Urban Pollination Ecology with Dr. Monika Egerer. Podcast: Cultivating Place.  
<https://www.cultivatingplace.com/post/national-pollinator-week-pollination-ecology-with-dr-monika-egerer>



- Akzente, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) (2022): Interview; <https://akzente.giz.de/de/artikel/interview-urban-october-2022>
- Oberhuber O (2022) Das sind unsere Lieblingsfleckerl: Uni-Forscher suchen Stadt-Oasen. In: München Merkur
- SciComm @ UCR (2021) Community Science for Urban Productive Ecosystems with Dr. Monika Egerer. Podcast: Beyond the Bench. <https://anchor.fm/sci-comm-ucr/episodes/33--Community-Science-for-Urban-Productive-Ecosystems-with-Dr--Monika-Egerer-e14thr1/a-a66snge>
- Straehler-Pohl J (2021) Helfen Miniwälder gegen Klimawandel? In: Deutschlandfunk kultur. <https://www.deutschlandfunkkultur.de/buergerwald-in-hamburg-helfen-miniwaelder-gegen-den-100.html>
- Vettori A (2021) Ein wilder Fleck als Kontrapunkt. In: Süddeutsche Zeitung. <https://www.sueddeutsche.de/muenchen/freising/hallbergmoos-tiny-forest-artenvielfalt-1.5329016>
- Vettori A (2021) Miniwald in Zentrumsnähe. In: Süddeutsche Zeitung. <https://www.sueddeutsche.de/muenchen/freising/projekt-in-hallbergmoos-miniwald-in-zentrumsnaehe-1.5318380>
- Stork R (2020) Berliner Gemeinschaftsgärten wird die Artenvielfalt kooperativ erforscht. In: Berliner Zeitung. <https://www.berliner-zeitung.de/gesundheit-oekologie/im-dienst-der-wissenschaft-stadtgaertner-zaehlen-blueten-li.114005>.
- TU Berlin Presse (2020) Gesellschaftliches Verständnis von Wildbienen fördern. <https://www.tu.berlin/forschen/themenportal-forschen/2020/september/wildbienen-verstehen/>
- Ball JC (2020) Why Some Ecologists Worry About Rooftop Honey Bee Programs. In: WIRED. <https://www.wired.com/story/why-some-ecologists-worry-about-rooftop-honey-bee-programs/>
- Howard J (2018) [How an interloper snake decimated Guam’s delicious wild chilies](#). In: Massive.

## Teaching

### *TUM School of Life Sciences, Technische Universität München*

- 2023 winter Professor, Shortcourse: Short Course in Social Science Methodology
- 2022 winter Professor, Shortcourse: Summer School in Urban Agriculture and Agroecology
- 2022 summer Professor, Project: Stadtoasen Bachelors Projekt; Tiny Forests Bachelors Project
- 2022 summer Professor, Seminar: Campus Ackerdemie
- 2022 summer Professor, Seminar: Advanced Concepts and Methods in Urban Ecosystems
- 2021 winter Professor, Lecture: Urban Agriculture
- 2021 winter Professor, Project: Vertical Farming
- 2021 summer Professor, Seminar: Advanced Concepts and Methods in Urban Ecosystems
- 2021 summer Professor, Project: „Tiny Forests” Bachelors Projekt
- 2021 summer Professor, Seminar: Wissenschaftliche Reisen: Von Beobachtungen und Grundlagen zur angewandten Forschung
- 2020 winter Professor, Lecture: Urban Agriculture

### *Ecology Dept., Technische Universität Berlin, Berlin*

- 2020 winter Guest Lecturer, Course: History and Perspectives of Urban Regions  
 2020 winter Guest Lecturer, Course: Research in Ecology and Environmental Planning

***Environmental Studies Dept., University of California, Santa Cruz***

- 2020 spring Guest Lecturer, Course: Advanced Research in Agroecology (ENVS 130C)  
 2019 spring Guest Lecturer, Course: Advanced Research in Agroecology (ENVS 130C)  
 2019 winter Guest Lecturer, Course: Sustainable Agriculture (ENVS 130B)  
 2018 summer Instructor, Course: Insect Ecology (ENVS 131)  
 2018 spring Guest Lecturer, Course: Tropical Ecology and Conservation (ENVS 122)  
 2018 spring Guest Lecturer, Course: Advanced Research in Agroecology (ENVS 130C)  
 2016 fall Guest Lecturer, Course: Insect Ecology (ENVS 131)  
 2016 spring Teaching Assistant, Course: Sustainable Agriculture (ENVS 130B)  
 2015 winter Teaching Assistant, Course: The Physical and Chemical Environment (ENVS 23)  
 2015 summer Teaching Assistant, Course: Freshwater Processes and Policy (ENVS 65)  
 2015 fall Teaching Assistant, Course: General Ecology (ENVS 24)

***Other teaching appointments***

- 2022- Adjunct Professor, UniLaSalle Institut Polytechnique, France; Course: Urban agriculture and agroecology  
 2015 Instructor, Professional Development Program, Institute for Scientist & Engineer Educators (ISEE), University of California, Santa Cruz; Course: Agriculture and Sustainability  
 2014 Teaching Fellow, Fulbright Commission, Germany, Christoph-Graupner Gymnasium; Courses: English and Social Studies  
 2013 Teaching Assistant, Kalamazoo College Biology Department; Courses: Form and Function (BIOL 123), Ecology and Conservation (BIOL 224)

**Presentations**

***Contributed conferences***

- 2022 Egerer M. Ecological and social drivers of wild bee conservation in urban gardens (Oral). SFE GfÖ EEG Joint Meeting, Metz, FR  
 2022 Straka T, Egerer M, Fischer L, Kowarik I. Beyond values: understanding underlying drivers of native and non-native species management in cities (Oral). Pathways Europe, NL  
 2022 Schmack J, Egerer M. Perceptions of social wasps and their ecosystem services in urban gardens (Oral). Pathways Europe, NL  
 2022 Egerer M. Land sharing in urban gardens to support insect biodiversity (Oral). European Congress of Conservation Biology (ECCB), Prague, CZ  
 2022 Egerer M. Conserving bee diversity in gardens through vegetation and nesting resources across urban landscapes (Oral). European Congress of Conservation Biology (ECCB), Prague, CZ  
 2022 Lovell R, Egerer M, Montgomery R, Olimpi EM. (2022): “Pedagogical training for graduate students: the role of professional development programs in teaching, research and outreach” (Organized Oral Session), PDP 20-Year Reunion Conference, Hilo, USA

- 2022 Egerer M. The ecological determinants for multispecies flourishing in cities. The Nature of Cities Festival, Digital (Oral)
- 2021 Egerer M. Fascination in pollinators underlies gardener intentions for pollinator-friendly behavior. Entomological Society of America, Digital, USA (Oral).
- 2021 Egerer M. Urban Ecology: Past, Present, Future. Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (GfÖ), Digital/Braunschweig, GER.
- 2021 Egerer M and Suda M. Winzl-Wald – Stadtoasen als transdisziplinäre Lehrplattform, Forstwissenschaftliche Tagung (Oral). Forstwissenschaftliche Tagung, Digital, GER
- 2021 Egerer M. Forum Citizen Science 2021, Bürgerschaftenwissen, GER
- 2020 Egerer M. Provisioning urban ecosystem services: Evidence and ways forward (Oral). Arbor-Tech Weihestephaner Forum 2020, TUM, GER.
- 2019 Egerer M, Jha S, Philpott SM. Local and landscape drivers of biodiversity and ecosystem service trade-offs and synergies in urban agroecosystems (Oral). 49th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (GfÖ), Münster, GER
- 2019 Egerer M, Anderson E, Fouch N, Clarke M. Examining socio-ecological connectivity through urban garden networks across varying cityscapes (Oral). International Landscape Ecology Conference, Milan, IT
- 2019 Egerer M, Jha S, Philpott SM. Local and landscape drivers of biodiversity and ecosystem service trade-offs in urban agricultural landscapes (Oral). International Landscape Ecology Conference, Milan, IT
- 2018 Egerer M, Lin BB, Threlfall C, Kendal D. Effects of climate variability on urban garden plant richness and gardener water use behavior (Oral). Ecological Society of Australia, Brisbane, AUS
- 2018 Egerer M. Context matters: contrasting ladybird beetle responses to urban environments across two US regions (Oral). Entomological Society of America, Vancouver, BC, CAN
- 2018 Cohen H. and Egerer M. Research-based inquiry strategies to promote equity and inclusion in the classroom (Workshop). National Sustainable Agriculture Education Association Conference, Honolulu, USA
- 2018 Anderson E, Egerer M, Fouch N, Clark M. and Davidson M. Examining community gardens as a source of ecological and social connectivity in cities (Poster). International Annual Landscape Ecology Conference, Chicago, USA
- 2017 Egerer M, Fricke E and Rogers H. Frugivory and seed dispersal by birds provides an ecosystem service (Poster). Marianas Terrestrial Conservation Conference, Guam.
- 2017 Egerer M and Philpott S. Movement in the Matrix: ladybeetle dispersal in an urban agricultural landscape (Oral). Ecological Society of America, Portland, USA
- 2017 Egerer M, Fricke E and Rogers H. Frugivory and seed dispersal by birds provides an ecosystem service (Oral). Association for Tropical Biology and Conservation Annual Meeting, Merida, MX
- 2017 Egerer M, Ossola A, and Lin B. Community garden soils as foundations for novel agro-ecosystems in cities (Oral). International Annual Landscape Ecology Conference, Baltimore, USA
- 2016 Egerer M. Urban arthropods respond variably to changes in landscape context and spatial scale (Poster). Ecological Society of America, Ft. Lauderdale, USA.

- 2016 Egerer M, Cohen H and Olimpi E. Designing inquiry activities in agricultural education (Oral workshop). 7th National Sustainable Agriculture Education Association Conference, Santa Cruz, USA
- 2016 Egerer M. A nexus of water, land, and food politics in urban community gardens (Oral). Association of American Geographers Meeting, San Francisco, USA.
- 2016 Cheng T. et al. PopUp Museums: A WiSE approach to supporting women in STEM (Oral workshop). SYNBERC Expanding Potential Workshop, Berkeley, USA
- 2016 Egerer M. Capitalizing on culture in a contested, urban agri-food landscape (Oral). Dimensions of Political Ecology Meeting, Lexington, USA
- 2015 Egerer M. From cage to garden: species richness and pest-control services in urban gardens (Oral). Stanford-UCSC Species Interaction Workshop, Stanford, USA
- 2015 Egerer M, Philpott S and Bichier P. Local and landscape predictors of natural enemies in urban community gardens (Poster). Ecological Society of America, Baltimore, USA
- 2013 Egerer M and Rogers H. Ecosystem services in the Mariana Islands: implications of bird loss for a wild chili pepper (Oral). Association for Tropical Biology and Conservation Annual Meeting, San Jose, CR

### ***Organized Conference Sessions***

- 2022 Egerer M, Abella, JC. “Ecology for Future Cities” (Organized Symposium), Ecological Society of Germany, Austria and Switzerland (GfÖ), Metz, FR
- 2022 Straka T, Egerer M, Soulsbury C, Drijfhout M. “Human-wildlife interactions in urban areas” (Organized Oral Session), Pathways Europe Conference, Wageningen, NL
- 2022 Lovell R, Egerer M, Montgomery R, Olimpi EM. “Pedagogical training for graduate students: the role of professional development programs in teaching, research and outreach” (Organized Oral Session), PDP 20-Year Reunion Conference, Hilo, USA
- 2022 Pinto M, Adams C, Kingsley J, Egerer M, Sharifi F, Tsatsou A, Perera E, Frantzeskaki N. “Flourishing of the non-human in cities” (Organized Oral Session) The Nature of Cities Festival, Digital
- 2021 Egerer M, Knapp S, Fischer F, Strohbach M. “Urban Ecology” (Organized Oral Session) Ecological Society of Germany, Austria and Switzerland (GfÖ), Digital/Braunschweig, GER
- 2019 Egerer M, Flies E, Threlfall C and Kendal D. “New Methods and Applications in Urban Ecology” (Organized Oral Session) Ecological Society of Australia 2019, Launceston, TAS, AUS
- 2017 Egerer M and Cohen H. “Beyond Biodiversity in Urban Agriculture Research: Ecosystem Services, Social Dimensions, and Management Applications” (Organized Oral Session) Ecological Society of America 2017, Portland, OR, USA

### ***Departmental talks and other invited talks***

- 2023 Egerer M. Department Seminar, WSL, Zurich, SZ
- 2021 Egerer M. Department Seminar, University of Hannover, GER
- 2021 Egerer M. Department Seminar, University of California, Davis, USA
- 2021 Egerer M. and Ludwig F. “Greening the Campus”, Digital Sustainability Transformation by, with and of TUM, Technical University of Munich, GER
- 2021 Egerer M. Department Seminar, IBZ Plant Ecology, ETH Zürich, Switzerland

- 2021 Egerer M. Weihenstephaner Kolloquium zur Angewandten Ökologie und Planung, Technical University of Munich, GER
- 2021 Egerer M. Institut für Landschaftsplanung und Ökologie, University of Stuttgart, GER
- 2020 Egerer M. Dept. of Entomology, University of Wisconsin, Madison, WI, USA
- 2020 Egerer M. Dept. of Ecology, Technische Universität Berlin, GER
- 2020 Egerer M. Dept. of Crop Sciences, University of Göttingen, GER
- 2019 Egerer M. School of Technology, Environments and Design, Geography and Spatial Sciences, University of Tasmania, Hobart, AUS
- 2019 Egerer, M. School of Life Sciences Weihenstephan, Minisymposium on ‘Urban Productive Ecosystems’, Technical University of Munich, Freising, GER
- 2019 Egerer, M. Environmental Studies Department, Dartmouth College, Hanover, USA
- 2018 Egerer, M. Environmental Studies Department, University of California, Santa Cruz, Santa Cruz, CA, USA
- 2018 Egerer, M. Center for Conservation Biology, University of California, Riverside, CA
- 2018 Egerer, M. School of Technology, Environments and Design, Geography and Spatial Sciences, University of Tasmania, Hobart, AUS
- 2017 Egerer, M. School of Ecosystem and Forest Sciences Student Conference, University of Melbourne, Burnley Campus, Melbourne, AUS
- 2015 Egerer, M. Responses of urban arthropods to landscape change and spatial scale (Poster). Frontiers Day, Museum of Art and History, Santa Cruz, CA
- 2013 Egerer, M. Ecosystem services in the Mariana Islands: implications of bird loss for a wild chili species. Diebold Symposium, Biology Department, Kalamazoo College, MI, USA
- 2013 Egerer, M. Ecosystem services in the Mariana Islands. Sustainability Guild Symposium, Kalamazoo College, MI, USA
- 2013 Egerer, M. Implications of bird loss for a wild chili pepper. Michigan Bird Conservation Initiative Workshop, Tustin, MI, USA
- 2011 Egerer, M. and B. Girdler. On the edge: imperiled butterfly monitoring at Pierce Cedar Creek. Summer Research Symposium, Pierce Cedar Creek Institute, Hastings, MI, USA

***Invited community speaking engagements***

- 2023 „Garden Futures“, Vitra Design Museum, Weil am Rhein, GER
- 2022 MFG Mitgliederversammlung 2022, Freising, GER
- 2022 Bayerische Akademie für Naturschutz und Landschaftspflege (ANL), Freising, GER
- 2022 3. Bayerischer Urban-Gardening-Kongress, Bayerische Landesanstalt für Weinbau und Gartenbau, Veitshöchheim, GER
- 2022 Bundesverband Deutsche Gartenfreunde e.V., Leipzig, GER
- 2022 Urania Berlin, Berlin, GER
- 2022 Pint of Science, Munich, GER
- 2022 Fachkongress, Grüne Fraktion Bayern, Landestag, Munich, GER
- 2021 TUM@Freising, Freising, GER
- 2021 Lenné Symposium, Berlin, GER
- 2020 Peace of Land Garden, Berlin, GER
- 2019 6<sup>th</sup> Annual Climate Conference, Santa Cruz, CA, USA

- 2019 Rotary Club, Scotts Valley Division, Scotts Valley, CA, USA
- 2018 Esalen Institute, Big Sur, CA, USA
- 2018 Be Provided Conservation Radio, Santa Cruz, CA, USA
- 2017 Marina Tree and Garden Club, Marina, CA, USA
- 2016 Santa Cruz Bee Guild, Santa Cruz, CA, USA
- 2016 "Food Chain" Radio Show, KSCO, Santa Cruz, CA, USA

### **Workshops & Courses**

- 2023 Short Course in Social Science Methodology, TUM, GER (Organizer)
- 2022 Workshop for Studienstiftung des deutschen Volkes, SPN (Presenter)
- 2022 HEF Summer School in Agroecology and Urban Agriculture, GER (Co-Organizer)
- 2021 Insekten fördern in Gemeinschaftsgärten, Webinar, Anstiftung e.V. (Presenter)
- 2021 How to preserve biodiversity? Best practices and failed programs, Synthesis Workshop, FEdA (digital; Participant)
- 2019 Managing Urban Landscapes for Biodiversity and Human Health Workshop, The Healthy Landscapes Research Group, Hobart, TAS, AUS (Organizer)
- 2016 SESYNC Graduate Student Workshop on Socio-Environmental Synthesis: Interdisciplinary Proposal Writing and Collaboration, National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD, USA (Participant)
- 2015 16th Annual International Community Agroecology Shortcourse, Community Agroecology Network (CAN), Santa Cruz, CA, USA (Participant)
- 2015 Baltimore Earth Stewardship Initiative: Cities that Work for People and Ecosystems, Demonstration Project, Baltimore, MD, USA (Participant)

### **Leadership and Academic Service**

- 2022- Scientific Advisory Board, URBNANCE Research Group, Leibniz-Institute of Ecological Urban and Regional Development (IOER)
- 2022- Grant reviewer and jury representative, Gesellschaft für Forschungsförderung Niederösterreich m.b.H.
- 2021- Scientific Advisory Board, EURAC Institute für Alpine Umwelt
- 2021- Strategy Board, Plant a Seed Community Garden, TU Munich
- 2021- Co-Organizer of the AK Stadtökologie of the GfÖ, Germany
- 2021- AG Freiflächengestaltung Campus Weihenstephan
- 2020- IALE Diversity and Inclusion Committee, International Association for Landscape Ecology
- 2018 President, Women in Science and Engineering, UC Santa Cruz
- 2017 Vice President, Women in Science and Engineering, UC Santa Cruz
- 2016-18 Chancellor's Achievement Awards for Diversity Selection Committee, University of California, Santa Cruz
- 2017 Chancellor's Diversity Advisory Council, University of California, Santa Cruz
- 2017 Faculty Hiring Committee (Gliessman Presidential Chair in Water Resources and Food System Sustainability), Environmental Studies Dept., UC Santa Cruz
- 2017 Environmental Studies Department Seminar Series Graduate Student Representative, UC Santa Cruz
- 2014 Citizen Ambassador, Meet US Program, US Embassy, Berlin, Germany

2013 LaPlante Civic Scholar, Mary Jane Underwood Stryker Institute for Service-Learning, Kalamazoo College

***Professional societies***

Association for Women in Science; Ecological Society of America; Ecological Society of Australia; International Association for Landscape Ecology; Sustainable Agriculture Education Association; Gesellschaft für Ökologie; Society of Urban Ecology; Deutscher Hochschulverband

***Editor activities***

Assistant Editor, *Advances in Agroecology Series*, CRC Press  
Associate Editor, *Frontiers, Sustainable Food Systems*

***Academic peer reviews***

*Agroecology and Sustainable Food Systems* (2017, 2020, 2022)  
*Applied Vegetation Science* (2020)  
*Basic and Applied Ecology* (2021, 2022)  
*Biodiversity and Conservation* (2018, 2023)  
*Cities* (2022)  
*Community Ecology* (2019)  
*Ecological Applications* (2022)  
*Ecology and Evolution* (2020)  
*Ecology & Society* (2020)  
*Ecosystems & People* (2023)  
*Ecology Letters* (2022)  
*Forests* (2019)  
*Frontiers in Sustainable Food Systems* (2020)  
*Geoforum* (2019)  
*Landscape Ecology* (2018, 2019)  
*Landscape and Urban Planning* (2019, 2021, 2022)  
*Journal of Applied Ecology* (2020)  
*Journal of Applied Geography* (2018)  
*Journal of Insect Conservation* (2020)  
*Journal of Urban Ecology* (2019)  
*PeerJ* (2021)  
*PLoSOne* (2017)  
*Population Ecology* (2018)  
*Science of the Total Environment* (2018, 2019)  
*Sustainability* (2018, 2019)  
*Trends in Ecology and Evolution* (2021)  
*Urban Ecosystems* (2022)  
*Urban Forestry & Urban Greening* (2018, 2019, 2020, 2021, 2022)