## Piublication Updates Since Review

and E. M. Bruna

The following articles have been published since Simon's Thesis

## References

- "Amazonian Secondary Forests Are Greatly Reducing Fragmentation and Edge Exposure in Old-Growth Forests IOPscience." n.d. Accessed May 30, 2025. https://iopscience.iop.org/article/10.1088/1748-9326/ad039e/meta.
- Anderson, Jake A., Colin J. McClean, Sarah Sim, Nathalie Pettorelli, Ahmad Jelling, Joseph Tangah, and Jane K. Hill. 2022. "Weak Edge Effects on Trees in Bornean Rainforest Remnants Bordering Oil Palm." *Biotropica* 54 (4): 921–32. https://doi.org/10.1111/btp. 13115.
- Arroyo-Rodríguez, Víctor, Romeo A. Saldaña-Vázquez, Lenore Fahrig, and Bráulio A. Santos. 2017. "Does Forest Fragmentation Cause an Increase in Forest Temperature?" *Ecological Research* 32 (1): 81–88. https://doi.org/10.1007/s11284-016-1411-6.
- Atkins, Jeff W., Alexey Shiklomanov, Kayla C. Mathes, Ben Bond-Lamberty, and Christopher M. Gough. 2023. "Effects of Forest Structural and Compositional Change on Forest Microclimates Across a Gradient of Disturbance Severity." Agricultural and Forest Meteorology 339 (August): 109566. https://doi.org/10.1016/j.agrformet.2023.109566.
- Bauer, Luise, Andreas Huth, André Bogdanowski, Michael Müller, and Rico Fischer. 2024. "Edge Effects in Amazon Forests: Integrating Remote Sensing and Modelling to Assess Changes in Biomass and Productivity." *Remote Sensing* 16 (3): 501. https://doi.org/10.3390/rs16030501.
- Bernaschini, María Laura, María Rosa Rossetti, Graciela Valladares, and Adriana Salvo. 2021. "Microclimatic Edge Effects in a Fragmented Forest: Disentangling the Drivers of Ecological Processes in Plant-Leafminer-Parasitoid Food Webs." *Ecological Entomology* 46 (5): 1047–58. https://doi.org/10.1111/een.13040.
- Blanchard, Grégoire, Nicolas Barbier, Ghislain Vieilledent, Thomas Ibanez, Vanessa Hequet, Stéphane McCoy, and Philippe Birnbaum. 2023. "UAV-Lidar Reveals That Canopy Structure Mediates the Influence of Edge Effects on Forest Diversity, Function and Microclimate." Journal of Ecology 111 (7): 1411–27. https://doi.org/10.1111/1365-2745.14105.
- De Frenne, Pieter, Jonathan Lenoir, Miska Luoto, Brett R. Scheffers, Florian Zellweger, Juha Aalto, Michael B. Ashcroft, et al. 2021. "Forest Microclimates and Climate Change: Importance, Drivers and Future Research Agenda." Global Change Biology 27 (11):

- 2279-97. https://doi.org/10.1111/gcb.15569.
- De Pauw, Karen, Leen Depauw, Kim Calders, Steven Caluwaerts, Sara A. O. Cousins, Emiel De Lombaerde, Martin Diekmann, et al. 2023. "Urban Forest Microclimates Across Temperate Europe Are Shaped by Deep Edge Effects and Forest Structure." Agricultural and Forest Meteorology 341 (October): 109632. https://doi.org/10.1016/j.agrformet.2023. 109632.
- De Pauw, Karen, Pieter Sanczuk, Camille Meeussen, Leen Depauw, Emiel De Lombaerde, Sanne Govaert, Thomas Vanneste, et al. 2022. "Forest Understorey Communities Respond Strongly to Light in Interaction with Forest Structure, but Not to Microclimate Warming." New Phytologist 233 (1): 219–35. https://doi.org/10.1111/nph.17803.
- Dias, Pb, Lp Gomes, Rm Callegaro, Fa Carvalho, and Hm Dias. 2021. "Structural and Environmental Variability from the Edge to the Interior of an Atlantic Forest Remnant in Brazil." *Journal of Tropical Forest Science* 33 (3): 308–22. https://www.jstor.org/stable/27039920.
- Garvey, Sarah M., Pamela H. Templer, Erin A. Pierce, Andrew B. Reinmann, and Lucy R. Hutyra. 2022. "Diverging Patterns at the Forest Edge: Soil Respiration Dynamics of Fragmented Forests in Urban and Rural Areas." Global Change Biology 28 (9): 3094–3109. https://doi.org/10.1111/gcb.16099.
- Gasperini, Cristina. 2023. "The Effects of Macroclimate and Microclimate on Soil Seed Banks in Temperate Forests." Dissertation, Ghent University. http://hdl.handle.net/1854/LU-01HBR5QBZ1YCK0QCNJX8EG7G72.
- Gilbert, Neil A., Nicholas M. Anich, Mike Worland, and Benjamin Zuckerberg. 2022. "Microclimate Complexities at the Trailing Edge of the Boreal Forest." Forest Ecology and Management 524 (November): 120533. https://doi.org/10.1016/j.foreco.2022.120533.
- Graham, Eric A., Mark Hansen, William J. Kaiser, Yeung Lam, Eric Yuen, and Philip W. Rundel. 2021. "Dynamic Microclimate Boundaries Across a Sharp Tropical Rainforest—Clearing Edge." *Remote Sensing* 13 (9): 1646. https://doi.org/10.3390/rs13091646.
- Gril, Eva, Marianne Laslier, Emilie Gallet-Moron, Sylvie Durrieu, Fabien Spicher, Vincent Le Roux, Boris Brasseur, et al. 2023. "Using Airborne LiDAR to Map Forest Microclimate Temperature Buffering or Amplification." Remote Sensing of Environment 298 (December): 113820. https://doi.org/10.1016/j.rse.2023.113820.
- Hes, Gabriel, Inne Vanderkelen, Rosie Fisher, Jérôme Chave, Jérôme Ogée, and Edouard L Davin. 2024. "Projecting Future Forest Microclimate Using a Land Surface Model." *Environmental Research Letters* 19 (2): 024030. https://doi.org/10.1088/1748-9326/ad1f04.
- Ho Vu, Khanh, Gabriella Süle, Bence Kovács, and László Erdős. 2024. "Strong Differences in Microclimate Among the Habitats of a Forest-Steppe Ecosystem." *Időjárás* 128 (1): 1–26. https://doi.org/10.28974/idojaras.2024.1.1.
- Hofmeister, Jeňýk, Jan Hošek, Marek Brabec, Radomíra Střalková, Pavla Mýlová, Martin Bouda, Joseph L. Pettit, Miloš Rydval, and Miroslav Svoboda. 2019. "Microclimate Edge Effect in Small Fragments of Temperate Forests in the Context of Climate Change." Forest Ecology and Management 448 (September): 48–56. https://doi.org/10.1016/j.foreco.2019.05.069.
- Kaasiku, T., R. Rannap, and P. Männil. 2022. "Predation-Mediated Edge Effects Reduce Survival of Wader Nests at a Wet Grassland-Forest Edge." *Animal Conservation* 25 (5):

- 692-703. https://doi.org/10.1111/acv.12774.
- Kemppinen, Julia, Jonas J. Lembrechts, Koenraad Van Meerbeek, Jofre Carnicer, Nathalie Isabelle Chardon, Paul Kardol, Jonathan Lenoir, et al. 2024. "Microclimate, an Important Part of Ecology and Biogeography." *Global Ecology and Biogeography* 33 (6): e13834. https://doi.org/10.1111/geb.13834.
- Koelemeijer, Irena Adia, Johan Ehrlén, Pieter De Frenne, Mari Jönsson, Peter Berg, and Kristoffer Hylander. 2023. "Forest Edge Effects on Moss Growth Are Amplified by Drought." *Ecological Applications* 33 (4): e2851. https://doi.org/10.1002/eap.2851.
- Koelemeijer, Irena A., Johan Ehrlén, Mari Jönsson, Pieter De Frenne, Peter Berg, Jenny Andersson, Henrik Weibull, and Kristoffer Hylander. 2022. "Interactive Effects of Drought and Edge Exposure on Old-Growth Forest Understory Species." *Landscape Ecology* 37 (7): 1839–53. https://doi.org/10.1007/s10980-022-01441-9.
- Meeussen, Camille, Sanne Govaert, Thomas Vanneste, Kurt Bollmann, Jörg Brunet, Kim Calders, Sara A. O. Cousins, et al. 2021. "Microclimatic Edge-to-Interior Gradients of European Deciduous Forests." *Agricultural and Forest Meteorology* 311 (December): 108699. https://doi.org/10.1016/j.agrformet.2021.108699.
- Meza-Elizalde, María C., and Dolors Armenteras-Pascual. 2021. "Edge Influence on the Microclimate and Vegetation of Fragments of a North Amazonian Forest." Forest Ecology and Management 498 (October): 119546. https://doi.org/10.1016/j.foreco.2021.119546.
- Morreale, Luca L., Jonathan R. Thompson, Xiaojing Tang, Andrew B. Reinmann, and Lucy R. Hutyra. 2021. "Elevated Growth and Biomass Along Temperate Forest Edges." *Nature Communications* 12 (1): 7181. https://doi.org/10.1038/s41467-021-27373-7.
- Nunes, Matheus Henrique, Marcel Caritá Vaz, José Luís Campana Camargo, William F. Laurance, Ana de Andrade, Alberto Vicentini, Susan Laurance, et al. 2023. "Edge Effects on Tree Architecture Exacerbate Biomass Loss of Fragmented Amazonian Forests." *Nature Communications* 14 (1): 8129. https://doi.org/10.1038/s41467-023-44004-5.
- Permana, Genta, Siti Nurleily Marliana, Ratna Susandarini, and Hadi Addaha. 2022. "Sustaining Rainforest Remnants in Plantation Landscapes: Degree of Oil Palm Stand-Induced Edge Effects on Forest Microclimate and Regeneration." *CERNE* 28: e103039. https://doi.org/10.1590/01047760202228013039.
- Schedlbauer, Jessica L., and Jason Miller. 2022. "Edge Effects Increase Soil Respiration Without Altering Soil Carbon Stocks in Temperate Broadleaf Forests." *Ecosphere* 13 (6): e4092. https://doi.org/10.1002/ecs2.4092.
- Schreier, Amy L., Kristofor A. Voss, and Laura M. Bolt. 2022. "A Mathematical Modelling Approach to Functionally Defining Forest Edge and Its Utility for Primate Behavioural Edge Effects." *International Journal of Primatology* 43 (3): 460–79. https://doi.org/10.1007/s10764-022-00289-9.
- Senevirathna, Ayesha D., Hiran H. E. Jayaweera, H. A. S. Gayan Dharmarathne, and Mayuri R. Wijesinghe. 2024. "Do Remnant Forest Patches Provide Microclimate Buffering? A Case Study from Sri Lanka." Forest Ecology and Management 562 (June): 121925. https://doi.org/10.1016/j.foreco.2024.121925.
- Slater, Helen D., Phillipa K. Gillingham, Victoria Pratt, Ben Eaton, Simon Fletcher, Abdullah Abdullah, Supriadi, and Amanda H. Korstjens. 2024. "Living on the Edge: Forest Edge Effects on Microclimate and Terrestrial Mammal Activity in Disturbed Lowland Forest in Sumatra, Indonesia." Oryx 58 (2): 228–39. https://doi.org/10.1017/S0030605323000212.

- Willmer, Julian Nicholas G., Thomas Püttker, and Jayme Augusto Prevedello. 2022. "Global Impacts of Edge Effects on Species Richness." *Biological Conservation* 272 (August): 109654. https://doi.org/10.1016/j.biocon.2022.109654.
- Zellweger, Florian, Eric Sulmoni, Johanna T. Malle, Andri Baltensweiler, Tobias Jonas, Niklaus E. Zimmermann, Christian Ginzler, et al. 2024. "Microclimate Mapping Using Novel Radiative Transfer Modelling." *Biogeosciences* 21 (2): 605–23. https://doi.org/10.5194/bg-21-605-2024.
- Zheng, Shilu, Bruce L. Webber, Raphael K. Didham, Chun Chen, and Mingjian Yu. 2021. "Disentangling Biotic and Abiotic Drivers of Intraspecific Trait Variation in Woody Plant Seedlings at Forest Edges." *Ecology and Evolution* 11 (14): 9728–40. https://doi.org/10.1002/ece3.7799.