

## Curriculum Vitae

## Dr. Mani Shrestha, PhD

Postdoc at Disturbance Ecology and Vegetation Dynamics,  
BayCEER, University of Bayreuth, 95440 Bayreuth, Germany  
Room: GEO II, Rm 016.2; Phone: 0921-552245  
**Email ID:** [mani.shrestha@uni-bayreuth.de](mailto:mani.shrestha@uni-bayreuth.de) /[sh.mani@gmail.com](mailto:sh.mani@gmail.com)  
ORCID: <http://orcid.org/0000-0002-6165-8418>  
Twitter: [@TheFlwrSearcher](https://twitter.com/TheFlwrSearcher)



### Education & Training

- 2013: PhD, Monash University, Melbourne, Australia  
[Supervisors: Assoc. Prof. Martin Burd and Assoc. Prof. Adrian G Dyer]
- 2004: MSc (Botany/Ecology, 2004), Tribhuvan University, Kathmandu, Nepal
- 2016/2017: SEM6881 – Scanning Electron Microscopy (SEM) 2016/2017 [MCEM, Monash Univ. and RMMF, RMIT Univ. Australia].

### Scientific and professional position

- 2021- : Postdoc and International Fellow**, Disturbance Ecology, BayCEER, University of Bayreuth, Germany [Host: Professor Dr. Anke Jentsch]
- 2017–Dec 2020: Research Fellow, RMIT Univ., Melbourne, Australia [BIDs-Lab: *Bee Behaviour and Insect-Plant Interactions lab*, worked for Australian Research Council (ARC) funded projects]
- 2013-2016: Postdoc, Faculty of Info Tech., Monash Univ., Australia [*Animal Plant Insect Simulations (APIS) Lab*, worked for ARC funded projects]

### Award and Honors

- 2018: Vice Chancellor's and RMIT Research Excellence Team Award
- 2017/2018: Travel grant to Nepal, Evolutionary Biology, Monash Univ.
- 2013: Travel grant to Singapore Botanical Garden, Singapore (ARC CI Adrian G Dyer, RMIT Univ.)
- 2013: Writing up Scholarship, (ARC CI Adrian G Dyer, RMIT Univ.)
- 2013: Writing up Scholarship, Faculty of Science, Monash University
- 2011: Monash University, Travel grant, USA
- 2009-2013: Monash Graduate Scholarship and Monash International Postgraduate Research Scholarship.

### Editors and reviewers:

- 2018-Oct 2021:** *Associated Guest Editor* on special issue: The Role of Flower Colour in Angiosperm Evolution in *Frontiers in Plant Sciences*.
- 2021 (Sept)- :** *Associated Editor*, *Frontiers of Plant Functional Ecology*.
- 2011-onward:** Reviewer for a range of journals

### Teaching/Student Supervision/Co-supervision

- Teaching** (*Summer and winter semester 2021/2022*)
- Experimental Ecology (Biodiversity and ecosystem functioning), Disturbance Ecology, Univ. Bayreuth.

- Invasive species and herbivore interaction, Disturbance Ecology, Univ. Bayreuth.
- Stability, Resilience and Inertia, Ecosystems & Sustainability of Ecosystem, Disturbance Ecology, Univ. Bayreuth.
- Plant pollinator interactions (guest lecture)

### Presentation 2021.

- Plant pollination, BayCEER, June 2021, University Bayreuth, Germany
- Trees for future Forest, October 2022, BayCEER annual conferences

### Research student supervision

- Master students: 5* (Year 2016-2022), 2 formal and 3 informal supervisions.
- International interns and Experimental Ecology student supervision: 3+4=7* (2021), Uni Bayreuth
- Informal co-supervision of PhD: 4* (1 informally co-supervise and publish many papers), Australia, Nepal and China.

### Other activity:

- Journal Club (winter semester)
- Scientific writing (winter semester)
- Social media handler of the Disturbance Ecology Lab (e. g. Twitter) and personal twitter

### Media coverage/Outreach

- ABC News Australia:** *What flower colours do birds and bees prefer?* [by James Bullen]
- The Sydney Morning Herald**, Australia: *Macquarie Island gives scientists a view of ecosystem without bees* Mountain flowers target bees [by Bridie Smith]
- New Phytologist:** *50 Shades of Red: The Colorful Tactics Flowers Use to Attract Birds* (New Phytologist)
- Australian Geographic:** *Red flowers: the trick to attracting birds*
- Press Trust of India** | Melbourne, *Flowers-turning red to attract native birds*
- The Conversation:** *Flies like yellow, bees like blue*
- 3D BeeScapes** video, available freely in Youtube (<https://www.beescapesfilm.com/watch>)

### Database publications/Contributions

- Tai, K.-C., Shrestha, M et al. (2020). *Dryad Dig. Repos.* [doi:10.5061/dryad.63xsj3v08](https://doi.org/10.5061/dryad.63xsj3v08) (Frontiers in Plant Sciences).
- Bukovac, Z., Shrestha, M., et al. (2016) Figshare, [doi:10.4225/03/58db417642745](https://doi.org/10.4225/03/58db417642745) (JCPA)
- Shrestha, M., et al. (2016) Dryad Dig. Repos. [doi:10.5061/dryad.1k09d](https://doi.org/10.5061/dryad.1k09d) [*Plant Biology*].
- Shrestha, M. et al. (2014) Dryad Dig. Repos. [doi:10.5061/dryad.2p8v2](https://doi.org/10.5061/dryad.2p8v2) [*J. Ecology*]
- Shrestha, M. et al. (2013) Dryad Dig. Repos. [doi:10.5061/dryad.pj860](https://doi.org/10.5061/dryad.pj860) [*New Phytologist*]

**Selected publications**h-index:18<sup>GS</sup> | i10-ndex: 25<sup>GS</sup> | RG score:33.9 | 03.12.21

1. Narbona E, Arista M, Whittall JB, Camargo MGG, **Shrestha M**. 2021. The Role of Flower Colour in Angiosperm Evolution. *Front. Plant Sci.* 12:736998. Editorial on special issues, all authors are Guest Associate Editors
2. Garcia JE, Hannah L, **Shrestha M**, Burd M, Dyer AG. 2022. Fly pollination drives convergence of flower coloration, *New Phytologist*, 23:52-61 (first published online 30 Aug 2021)
3. Dyer AG, Jenstsch A et al.-- **Shrestha M\***. 2021. Fragmentary Blue: Resolving the paradox of rarity. *Front. Plant Sci.* 11:618203 (Special Issue, Associated Guest Editor).
4. Garcia, J.E., Dyer, A.G., Burd, M., **Shrestha, M.** (2021). Flower colour and size signals differ depending upon geographical and altitudinal region. *Plant Biology*, doi: 10.1111/plb.13326
5. Paudel BR, **Shrestha M** et al. 2021. Dual mechanisms of autonomous selfing in *Roscoea nepalensis* (Zingiberaceae). *Ecology: The Scientific Naturalist*, 102(7): e03337.
6. Tai KC, **Shrestha M\***, et al. 2021. Floral colour diversity in the tropical-subtropical mountainous island of Taiwan. *Front. Plant Sci.* 11:582784. (Special Issue: *The role of floral colour in Angiosperm Evolution*, \*corresponding authors & Associate Guest Editor of this special Issue)
7. **Shrestha M**, Dyer AG, Garcia JE, Burd M. 2019. Floral colour structure in two Australian herbaceous communities: it depends on who is looking. *Annals of Botany*, 124 (2): 221-232
8. Dyer AG, **Shrestha M**. 2019. Assessment of floral colour signals at a community through the eyes of the birds and bees. *New Phytologist* 222: 648–650. (Commentary on de Camargo et al 2018 NP paper, **invited commentary**).
9. **Shrestha M**, Martin Burd, Garcia JE, Dorin A, Dyer AG. 2019. Colour evolution within orchids depends on whether the pollinator is a bee or a fly. *Plant Biology*, 21: 745-752.
10. **Shrestha M**, Buckova Z, Garcia J, Dorin A, Dyer AG. 2018. Pollination in a new climate: variation of flower temperature in different flowering plants and their potential role for pollinator behavior PLoS ONE, doi.org/10.1371/journal.pone.0200549.
11. Paudel BR, Burd M, **Shrestha M**, Dyer AG, Li QJ. 2018. Reproductive isolation in alpine ginger: How do co-existing *Roscoea* (*R. purpurea* and *R. tumjensis*) conserve species integrity? *Evolution*, 72(9):1840-1850.
12. Bukovac Z, **Shrestha M**, Garcia JE, Burd M, Dorin A, Dyer AG. 2017. Why background colour matters to bees and flowers. *Journal of Comparative Physiology A*, 3 (5): 369–380
13. ElQadia MM, Dorin A, Dyer AG, Burd M, Bukovac Z, **Shrestha M**. 2017. Mapping species distributions with social media geo-tagged images: Case studies of bees and flowering plants in Australia. *Ecological Informatics* 39: 23–31.
14. Paudel BR, **Shrestha M**, Burd M, Adhikari S, Sun Y-S, Li QJ. 2016. Coevolutionary elaboration of pollination related traits in an alpine ginger (*Roscoea purpurea*) and a tabanid fly in the Nepalese Himalayas. *New Phytologist*, 211 (4): 1402–1411.
15. **Shrestha, M**, Lunau K, Schulze B, Dorin A, Bischoff M, Burd M, and Dyer AG. 2016. Floral colours in a world without birds and bees: the plants of Macquarie Island. *Plant Biology*, 18: 842–850.
16. Garcia JE, Greentree A, **Shrestha M**, Dorin A, Dyer AG. 2014. Flower colours through the lens: Quantitative measurement with visible and ultraviolet photography. *PLoS ONE* 9(5): e96646
17. Burd M, Stayton CT, **Shrestha M**, Dyer AG. 2014. Distinctive convergence in Australian floral colours seen through the eyes of Australian birds. *Proceedings of the Royal Society B*, 281 (1781): 1-7.
18. **Shrestha M**, Dyer AG, Bhattarai P, Burd M. 2014. Flower colour and phylogeny along an altitudinal gradient in the Himalaya of Nepal. *Journal of Ecology*, 102(1): 126-135.
19. **Shrestha M**, Dyer AG, Boyd-Gerny S, Wong BBM, Burd M. 2013. Shades of red: Bird-pollinated flowers target the specific colour discrimination abilities of avian vision. *New Phytologist*, 198(1): 301-310.
20. Burd M, Martínez Bauer A, **Shrestha M**. 2012. The evolutionary ecology of pollination and the functional biology of agricultural plants. Chapter 4, pp. 65–76, In: *Pragmatic Evolution: Applications of Evolutionary Theory*, Poiani A (ed.). Cambridge University Press, Cambridge, U.K. (**Book Chapter**)

~The End~