Dr. Patrice Pottier

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SUMMARY

- **PhD** in biological sciences awarded in May 2024.
- **Excellent publication record**: 30 refereed publications in top journals and 7 preprints, including 8 as the lead author (e.g., *Nature* [IF = 50.5], *Trends in Ecology & Evolution* [IF = 17.3], *Ecology Letters* [IF = 7.9])
- **Track record of research impact**: 1,073 citations (h-index: 17; i10-index: 23; *Google Scholar*). Publications cited 458% more than other contributions in the field (SciVal, field-weighted citation impact).
- **Recognition of research excellence**: Received 4 research excellence awards for early-career researchers.
- **High level of interpersonal and communication skills:** Invited to speak at 5 national and international conferences. Received 4 conference and department awards for best presentations and posters.
- **Large collaborative network**: Initiated collaborations on 6 continents, involving up to 30 collaborators.
- **Leadership in open science**: Board member of an international society to promote open science in ecology and evolutionary biology.
- **Strong commitment to equity, diversity and inclusion**: Involved in leadership roles in universities and international societies.
- **Attracted competitive external funding:** Secured > $450,000 in competitive funding.
- **Experienced in teaching and supervision:** Taught eight undergraduate courses and supervised 13 students.

RESEARCH & EDUCATION

June 2025 – present
Postdoctoral research fellow | University of Gothenburg (Sweden)
Project: *Unifying thermal tolerance assessments across fish life stages* (Wenner-Gren fellowship)
Supervised by Fredrik Jutfelt

May 2024 – May 2025
Postdoctoral researcher | Australian National University (Australia)
Project: *Quantifying the importance of phenotypic plasticity for population persistence*
Supervised by Daniel Noble
&
Postdoctoral researcher | University of New South Wales (Australia)
Project: *Using evidence synthesis to predict animal responses to environmental change*
Supervised by Shinichi Nakagawa & Malgorzata Lagisz

March 2024 – May 2024
Research assistant | University of New South Wales (Australia)
Project: *Using evidence synthesis to predict animal responses to environmental change*
Supervised by Shinichi Nakagawa & Malgorzata Lagisz

February 2020 – May 2024
PhD – Biological Sciences | University of New South Wales (Australia)
Thesis: *Plasticity and resilience of ectotherms to climate change* (Scientia PhD scholarship)
Supervised by Shinichi Nakagawa & Szymon Drobniak

October 2019 – December 2019
Research assistant | University of Alabama (USA)
Project: *Carry-over impacts of endocrine disrupting chemicals on mangrove rivulus fish, K. marmoratus*
Supervised by Ryan Earley

September 2017 – June 2019
MSc – Evolutionary Ecology | University of Tours (France); University of Alabama (USA)
Project: *Early-life impacts of endocrine disrupting chemicals on mangrove rivulus fish, K. marmoratus*
Supervised by Ryan Earley

September 2014 – June 2017
BSc – Integrative and Evolutionary Biology | University of Tours (France)
Project: *Aggressiveness and contest outcome in a parasitoid wasp, Eupelmus vuilleti*
8 weeks internship supervised by Marlène Goubault & Anthony Mathiron

PUBLICATIONS & PREPRINTS

I have authored **30 publications and 8 preprints**, including 9 as the lead author and 10 as the second key contributor. My work has been consistently published in top journals in ecology and evolutionary biology (e.g., *Nature*, *Ecology Letters*, *Trends in Ecology & Evolution*) and has accumulated **1,098 citations** (h-index: 17; i10-index: 23; *Google Scholar).* My field-weighted citation impact indicates my publications are **cited 4.58 times more** than the average in my field.

The full publication list is presented below. Where I am the second author, I played a vital role in conceptualising the study, running experiments, conducting the statistical analyses, and/or writing. Where I am an intermediate author, my contribution was typically to help with data collection, statistical analyses, and/or writing.

Through these projects, I have acquired theoretical knowledge in thermal physiology (3, 6, 7, 8, 29), built extensive experience with systematic reviews (3, 7, 8) and meta-analyses (3, 7, 29), proposed new conceptual and statistical approaches for comparative studies (5, 18), conceptualised new phylogenetic data imputation approaches (29), and became proficient with modelling the projected impacts of climate warming (16, 29). I have also led (8, 29) and participated (e.g., 12, 21, 22, 26, 28) in large international collaborations.

Preprints

38. Pottier, P., Wu, N.C., Earhart, M.L., Lagisz, M., Alter, K., … & Ruthsatz, K. Embryos are largely understudied in conservation physiology. ***EcoEvoRxiv***. https://doi.org/10.32942/X2KP96. Under review at *Conservation Physiology*.

37. Pottier, P., Oh, R.R.Y., Pollo, P., Rivera-Villanueva, A.N.R., Yang, Y., … & Claunch, N. AmphiTherm: a comprehensive database of amphibian thermal tolerance and preference. ***EcoEvoRxiv***. https://doi.org/10.32942/X2HW6H. Under minor revision at *Scientific Data.*

36. Martinig, A.R., Burk, S.L.P., Drobniak, S.M.D., Perry, I., Morrison, K., Petersohn, M., **Pottier, P.,** … & Lagisz, M. Dragon Kill Points: applying a transparent working template to relieve authorship stress. ***EcoEvoRxiv***. https://doi.org/10.32942/X2W05K. Under review at *BMC Biology*.

35. Ricolfi, L., Yang, Y., **Pottier, P.,** Morrison, K., Williams, C., … & Lagisz, M. A meta-analysis reveals PFAS concentrations double with each trophic level across aquatic and terrestrial food webs. ***EcoEvoRxiv***. https://doi.org/10.32942/X2SP92. Under review at *Nature Communications.*

34. Pollo, P., Martinig, A.R., Mizuno, A., Morrison, K., **Pottier, P.,** … Lagisz, M., & Nakagawa, S. Harnessing meta-analyses' insights in ecology and evolution research. ***EcoEvoRxiv.*** https://doi.org/10.32942/X2PW5P. Under review at *Royal Society Open Science.*

33. Morrison, K., **Pottier, P.,** Pollo, P., Ricolfi, L., Williams, C., Yang, Y., ... & Nakagawa, S. (2025). MATES: A tool for evaluating the quality of reporting of meta-analyses. ***metaArXiv***. https://doi.org/10.31222/osf.io/n3cta. Under major revision at *Environment International.*

32. Dadzie, F., Munoz-Rojas, M., Slavich, E., **Pottier, P**., Zeng, K., & Moles, A. (2023). Native and commercial microbial inoculants show equal effects on plant growth in dryland ecosystems. ***Authorea***. http://doi.org/10.22541/au.167785097.78920686/v. Under review in *Journal of Applied Ecology.*

31. Macartney, E.L., **Pottier, P.,** Burke, S., Drobniak, S.M., & Nakagawa, S. (2022). Quantifying between-individual variation using high-throughput phenotyping of behavioural traits in the fruit fly (*Drosophila melanogaster*). ***EcoEvoRxiv***. https://doi.org/10.32942/X22S39

Peer reviewed

30. Macartney, E.L., Burke, S., **Pottier, P.**, Hamoudi, Z., …& Nakagawa, S. (2023). Sex-specific effects of social environment on behaviour and their correlations in *Drosophila melanogaster*. ***Ecology & Evolution***, 15, e71261. https://doi.org/10.1002/ece3.71261**. [IF = 2.3, Citations = 0]**

29. Pottier, P., Kearney, M.R., Wu, N.C., Gunderson, A.R., Rej, J.E., … & Nakagawa, S. (2025). Vulnerability of amphibians to global warming. ***Nature***, 639, 954-961. https://doi.org/10.1038/s41586-025-08665-0**. [IF = 50.5, Citations = 13]**

28. Gould, E., Fraser, H.S., Parker, T.H., Nakagawa, S., ... **Pottier, P.**, *et al.* (2025). Same data, different analysts: variation in effect sizes due to analytical decisions in ecology and evolutionary biology. ***BMC Biology***, 23, 1-36. https://doi.org/10.1186/s12915-024-02101-x. **[IF = 4.5; Citations = 73]**

27. Noble, D.W.A., Xirocostas, Z.A., Wu, N.C., Martinig, A.R., Almeida, R.A., …, **Pottier, P.**, *et al.* (2025). The promise of community-driven preprints in ecology and evolution. ***Proceedings of the Royal Society B: Biological Sciences****,* 292, 20241487. https://doi.org/10.1098/rspb.2024.1487. **[IF = 3.5; Citations = 2]**

26. Lagisz, M., Bairos-Novak, K.R., Martinig, A.R., Bertram, M., … **Pottier, P.,** *et al.* (2025). Priced out of belonging? Insufficient concessions on membership fees across international societies in ecology and evolution. ***Proceedings of the Royal Society B: Biological Sciences***, 292, 20241430. https://doi.org/10.1098/rspb.2024.1430. **[IF = 3.5; Citations = 0]**

25. McKibbin, O., Vergés, A., **Pottier, P.**, & Mayer Pinto, M. (2024). Marine infrastructure support fewer producers and more filter feeders than natural habitats: a review and meta-analysis. ***Environmental Research Letters***. https://doi.org/10.1088/1748-9326/ad7ee1. **[IF = 5.6; Citations = 1]**

24. Pottier, P., Lagisz, M., Burke, S., Drobniak, S.M., … & Nakagawa, S. (2024). Title, abstract, and keywords: a practical guide to maximise the visibility and impact of academic papers. ***Proceedings of the Royal Society B: Biological Sciences,*** 29, 20241222. https://doi.org/10.1098/rspb.2024.1222. **[IF = 3.5; Citations = 17]**

23. Wu, N. C., Alton, L. A., Bovo, R. P., Carey, N., …, **Pottier, P.**, *et al.* (2024). Reporting guidelines for terrestrial respirometry: Building openness, transparency of metabolic and evaporative water loss data. ***Comparative Biochemistry and Physiology, Part A,*** 296, 111688. https://doi.org/10.1016/j.cbpa.2024.111688. **[IF = 2.1; Citations = 5]**

22. Arenas-Castro, H., Berdejo-Espinola, V., Chowdhury, S., Rodríguez-Contreras, …, **Pottier, P.,** *et al.* (2024). Academic publishing requires linguistically inclusive policies. ***Proceedings of the Royal Society B: Biological Science****s,* 291, 20232840. https://doi.org/10.1098/rspb.2023.2840. **[IF = 3.5; Citations = 41]**

21. Bretman, A., Fricke, C., Baur, J., Berger, D., …, **Pottier, P.**, *et al.* (2024). Systematic approaches to assessing high temperature limits to fertility in animals. ***Journal of Evolutionary Biology****,* 37, 471-485. https://doi.org/10.1093/jeb/voae021. **[IF = 1.7; Citations = 11]**

20. Dougherty, L.R., Frost, F., Maenpaa, M.I., Rowe, M., Cole, B.J., Vasudeva, R., **Pottier, P.**, *et al.* (2024). A systematic map of studies testing the relationship between temperature and animal reproduction**.** ***Ecological Solutions and Evidence***, 5, e12303. https://doi.org/10.1002/2688-8319.12303. **[IF = 2.6; Citations = 28]**

19. Popovic, G., Mason, T., Marques, T., Potts, J., …, & **Pottier, P**. (2024). Four principles for improved statistical ecology. ***Methods in Ecology and Evolution****,* 15, 266-281. https://doi.org/10.1111/2041-210X.14270. **[IF = 6.2; Citations = 21]**

18. Pottier, P., Noble, D.W., Seebacher, F., Wu, N.C., Lagisz, M., Schwanz, L., Drobniak, S.M., & Nakagawa, S. (2024). New horizons for comparative studies and meta-analyses. ***Trends in Ecology & Evolution****,* 39, 435-445. https://doi.org/10.1016/j.tree.2023.12.004. **[IF = 17.3; Citations = 14]**

17. Burke, S., **Pottier, P.**, Macartney, E.L., Drobniak, S.M., …, & Nakagawa, S. (2023). Mapping literature reviews on coral health: A review map, critical appraisal and bibliometric analysis. ***Ecological Solutions and Evidence****,* 4, e12287. https://doi.org/10.1002/2688-8319.12287. **[IF = 2.6; Citations = 3]**

16. Burke, S., **Pottier, P.**, Lagisz, M., Macartney, E.L., …, & Nakagawa, S. (2023). The impact of rising temperatures on the prevalence of coral diseases and its predictability: a global meta-analysis. ***Ecology Letters****,* 26, 1466-1481. https://doi.org/10.1111/ele.14266. [**IF = 7.9; Citations = 49]**

15. Zhang, R., Wild, K., **Pottier, P.,** Carrasco, M.I., Nakagawa, S., & Noble, D.W.A. (2023). Developmental environments do not affect thermal physiology in reptiles: An experimental test and meta-analysis. ***Biology Letters****,* 19, 20230019. https://doi.org/10.1098/rsbl.2023.0019. **[IF = 3.0; Citations = 11]**

14. Nakagawa, S., Grainger, M.J., **Pottier, P.,** Martinig, A.R., …, & Lagisz, M. (2023). Method Reporting with Initials for Transparency (MeRIT) promotes more granularity and accountability for author contributions. ***Nature Communications****,* 14, 1788. https://doi.org/10.1038/s41467-023-37039-1. **[IF = 14.7; Citations = 48]**

13. Nakagawa, S., Lagisz, M., O'Dea, R.E., **Pottier, P.**, …, & Noble, D.W.A. (2023). orchaRd 2.0: an R package for visualizing meta-analyses with orchard plots. ***Methods in Ecology and Evolution****,* 14, 2003-2010. https://doi.org/10.1111/2041-210X.14152. **[IF = 6.2; Citations = 90]**

12. Amano, T., Berdejo-Espinola, V., Akasaka, M., de Andrade Junior, M.A., …, **Pottier, P.**, *et al.* (2023). The role of non-English-language science in informing national biodiversity assessments. ***Nature Sustainability,*** 6, 845-854. https://doi.org/10.32942/osf.io/jk429. **[IF = 27.1; Citations = 69]**

11. Burke, S., **Pottier, P.,** Macartney, E.L., Drobniak, S.M., …, & Nakagawa, S. (2022). Mapping literature reviews on coral health: Protocol for a review map, critical appraisal, and bibliometric analysis. ***Ecological Solutions and Evidence,*** 3, e12190. https://doi.org/10.1002/2688-8319.12190. **[IF = 2.6; Citations = 3]**

10. Gomes, D.G.E., **Pottier, P.**, Crystal-Ornelas, R., Hudgins, E.J., …, & Gaynor, K. M. (2022). Why don't we share data and code? Perceived barriers and benefits to public archiving practices. ***Proceedings of the Royal Society B: Biological Sciences***, 289: 20221113. https://doi.org/10.1098/rspb.2022.1113. **[IF = 3.5; Citations = 144]**

9. Weaving, H., Terblanche, J. S., **Pottier, P.**, & English, S. (2022). Meta-analysis reveals weak but pervasive plasticity in insect thermal limits. ***Nature Communications***, 13, 1–11. https://doi.org/10.1038/s41467-022-32953-2. **[IF = 14.7; Citations = 95]**

8. Pottier, P., Lin, H.-Y., Oh, R.R.Y., Pollo, P., Rivera-Villanueva, A.N., Valdebenito, J.O., Yang, Y., Amano, T., Burke, S., Drobniak, S.M., & Nakagawa, S. (2022). A comprehensive database of amphibian heat tolerance. ***Scientific Data***, 9, 1–15. https://doi.org/10.1038/s41597-022-01704-9. **[IF = 6.9; Citations = 34]**

7. Pottier, P., Burke, S., Zhang, R.Y., Noble, D.W.A., Schwanz, L.E., Drobniak, S.M., & Nakagawa, S. (2022). Developmental plasticity in thermal tolerance: Ontogenetic variation, persistence, and future directions. ***Ecology Letters***, 25, 2245–2268. https://doi.org/10.1111/ele.14083. **[IF = 7.9; Citations = 111]**

6. Pottier, P., Burke, S., Drobniak, S.M., & Nakagawa, S. (2022). Methodological inconsistencies define thermal bottlenecks in fish life cycle: a comment on Dahlke et al. 2020. ***Evolutionary Ecology,*** 36: 287-292. https://doi.org/10.1007/s10682-022-10157-w. **[IF = 2.1; Citations = 32]**

5. Noble, D.W.A., **Pottier, P**., Lagisz, M., Burke, S., …, & Nakagawa, S. (2022). Meta-analytic approaches and effect sizes to account for 'nuisance heterogeneity' in comparative physiology. ***Journal of Experimental Biology,*** 225, jeb243225. https://doi.org/10.1242/jeb.243225. **[IF = 2.6; Citations = 35]**

4. Vendl, C., **Pottier, P.,** Taylor, M.D., Braunig, J., ..., & Nakagawa, S. (2022). Thermal processing reduces PFAS concentrations in blue food – A systematic review and meta-analysis. ***Environmental Pollution,*** 304, 119081. https://doi.org/10.1016/j.envpol.2022.119081. **[IF = 7.3; Citations = 19]**

3. Pottier, P., Burke, S., Drobniak, S.M., Lagisz, M., & Nakagawa, S. (2021). Sexual (in)equality? A meta-analysis of sex differences in thermal acclimation capacity across ectotherms. ***Functional Ecology,*** 35, 2663-2678. https://doi.org/10.1111/1365-2435.13899. **[IF = 5.1; Citations = 64]**

2. Mathiron, A.G.E., **Pottier, P.,** & Goubault, M. (2019) Keep calm, we know each other: kin recognition affects aggressiveness and conflict resolution in a solitary parasitoid. ***Animal Behaviour***, 151, 103-11. http://doi.org/10.1016/j.anbehav.2019.03.012. **[IF = 2.1; Citations = 15]**

1. Mathiron, A.G.E., **Pottier, P.,** & Goubault, M. (2018) Let the most motivated win: resource value components affect contest outcome in a parasitoid wasp. ***Behavioral Ecology,*** 29, 1088-1095. http://doi.org/10.1093/beheco/ary084. **[IF = 2.2; Citations = 16]**

PRE-REGISTRATIONS AND REGISTERED REPORTS

I have been a leading advocate for open science in ecology, actively championing practices such as pre-registration and registered reports, which remain rare in the field. Completed projects are marked with an asterisk (*****).

8. Pottier, P., Claunch, N., Leibold, D.C., Laven, N., Morrison, K., … & Noble, D. (2024). Sensitivity of ectotherms to changing developmental temperatures: a meta-analysis. ***Open Science Framework Registries***. https://doi.org/10.17605/OSF.IO/QCKPX

7. de Oliveira Anderson, R., **Pottier, P.**, Chown, S. (2024). Thermal acclimation of polar ectotherms. ***Open Science Framework Registries***. https://doi.org/10.17605/OSF.IO/R3GYK

6. Pottier, P., Lagisz, M., Wu, N.C., Cowan, Z.-L., ... & Ruthsatz, K. (2024). Variation in research effort on different life stages in conservation physiology. ***Open Science Framework Registries***. https://doi.org/10.17605/OSF.IO/6XYZ8

5. Pollo, P., Martinig, A.R., Mizuno, A., Morrison, K., **Pottier, P.**, … & Nakagawa, S. (2024). Meta-impact: how often and in what way are meta-analyses' insights harnessed in ecology and evolution research? A protocol. ***Open Science Framework Registries***. https://doi.org/10.17605/OSF.IO/HAQUB.

4. Pottier, P., Dougherty, L.R., Vasudeva, R., Berger, D., … & Fricke, C. (2023). Evolution of reproductive success in response to changing temperatures: a meta-analysis. ***Open Science Framework Registries***. https://doi.org/10.17605/OSF.IO/4B38S

3*. Burke, S., **Pottier, P.**, Macartney, E.L., Drobniak, S.M. … & Nakagawa, S. (2022). Mapping literature reviews on coral health: Protocol for a review map, critical appraisal and bibliometric analysis. Registered Report Stage 1. ***Ecological Solutions and Evidence***. https://doi.org/10.1002/2688-8319.12190

2*. Pottier, P., Burke, S., Zhang, R.Y., Noble, D.W.A., Schwanz, L.E., Drobniak, S.M., & Nakagawa, S. (2021). Developmental plasticity of heat tolerance in ectotherms: a systematic review and meta-analysis. ***Open Science Framework Registries***. https://doi.org/10.17605/osf.io/zkx6u

1*. Pottier, P., Burke, S., Drobniak, S. M., Lagisz, M., Nakagawa, S. (2020). Sex differences in thermal acclimation capacity across ectotherms: A systematic review and meta-analysis. ***Open Science Framework Registries***. https://doi.org/10.17605/osf.io/x9y6h

AWARDS & GRANTS

My research has received significant recognition, with **numerous awards**, including the largest prizes for early career researchers from leading scientific societies in my field (*Society for Experimental Biology, Australasian Evolution Society*), as well as from my PhD university's department (*Evolution & Ecology Research Centre, E&ERC*). I have also demonstrated my ability to attract **external funding**, including $6,995 in travel grants, a Scientia PhD Scholarship ($347,344), and a Wenner-Gren postdoctoral fellowship ($114,342).

Total: $486,245 AUD

- Loligo Systems: **Conference symposium grant** (2025; £3000)
- PyroScience: **Conference symposium grant** (2025; £1000)
- Wenner-Gren Stiftelserna: Postdoctoral fellowship (2025; 720,000 SEK, tax-free)
- UNSW E&ERC: **Outstanding Researcher award** (2025; $250 AUD).
- Society for Experimental Biology: **Young Scientist Award** (2024; £400)
- Society for Experimental Biology: **Travel grant** (2024; £500)
- International Society for Behavioral Ecology: **Travel grant** (2024; $1200 USD)
- Australasian Evolution Society: **Best student presentation award** (2023; $1000 AUD)
- Australasian Evolution Society: **Travel grant** (2023; $200 AUD)
- The Company of Biologists: **Scientific Meeting Grant** (2023; £1722)
- UNSW E&ERC: **Outstanding Postgraduate Researcher award** (2023; $500 AUD)
- UNSW E&ERC: **Skills Transfer workshop grant** (2023; $600 AUD)
- UNSW E&ERC: **Workshop funding** (2023; $1900 AUD)
- Australasian Evolution Society: **Early Career Researcher Research Excellence award** (2022; $380 AUD)
- Australian and New Zealand Society for Comparative Physiology & Biochemistry: **Travel grant** (2022; $420 AUD)
- Society for Experimental Biology: **Irene Manton Best Poster award** (2022, £100)
- European Society for Evolutionary Biology: **Travel grant** (2022; 350€)
- The company of Biologists: **Travel grant** (2022; 578€)
- Society for Experimental Biology: **Travel grant** (2022; £300)
- Society for Open, Reliable, and Transparent Ecology and Evolutionary biology: **Open Science in Practice award** (2022; PeerJ APC waiver, worth $1,195 USD)
- UNSW E&ERC: **Outstanding Postgraduate Researcher award**, runner-up (2022)

- UNSW E&ERC: **Best student paper award**, runner-up (2022)
- UNSW E&ERC: **Outstanding Presentation in Evolution and Ecology award** (2021; $150 AUD)
- UNSW E&ERC: **Twitter conference award** (2021, $100 AUD)
- UNSW **Scientia PhD Scholarship** (2020, $347,344 AUD)

PRESENTATIONS

I have disseminated my research findings through 16 talks and 4 poster presentations at a total of 16 conferences (6 online). I have given both invited presentations and presented as a plenary speaker.

- *How much do we know about embryos?* **Presentation** at the Society for Experimental Biology conference (2025, 15 min). Antwerp, Belgium.
- *A call for a distributed experiment on fish embryonic thermal tolerance.* **Poster** at the Society for Experimental Biology conference (2025). Antwerp, Belgium.
- *How vulnerable are amphibians to global warming?* **Presentation** at the International Society for Behavioral Ecology conference (2024, 12 min). Melbourne, Australia.
- *How vulnerable are amphibians to global warming?* **Invited presentation** at the Society for Experimental Biology conference for the Young Scientist Award Session (2024, 20 min). Prague, Czechia.
- *Plasticity and resilience of amphibians to global warming.* **Presentation** at the Society for Experimental Biology conference (2024, 15 min). Prague, Czech Republic.
- *How vulnerable are amphibians to global warming?* **Presentation** at the Australasian Evolution Society conference (2023, 12 min). Adelaide, Australia.
- *Plasticity and resilience of ectotherms to global warming.* **Plenary speaker** at the Genetics, Ecology, Microbiology, Medicine, Zoology conference (2023, 60 min). Melbourne, Australia.
- *Vulnerability of amphibians to global warming.* **Presentation** at the Society for Experimental Biology conference (2023, 15 min). Edinburgh, UK.
- *Developmental plasticity in thermal tolerance.* **Plenary speaker** at the Australasian Evolution Society conference for the Early Career Research Excellence award (2022, 30 min). Canberra, Australia.
- *Thermal tolerance of the world's amphibians.* **Presentation** at the Australian and New Zealand Society for Comparative Physiology and Biochemistry conference (2022, 20 min). Canberra, Australia.
- *Developmental plasticity in thermal tolerance: Ontogenetic variation, persistence, and future directions.* **Poster** at the European Society for Evolutionary Biology conference (2022). Prague, Czechia.
- *Climate vulnerability of the world's amphibians.* **Poster** at the Society for Experimental Biology (SEB) conference (2022). Montpellier, France.
- *Developmental plasticity in thermal tolerance: Ontogenetic variation, persistence, and future directions.* **Invited presentation** at the Society for Experimental Biology conference (2022, 30 min). Montpellier, France.
- *Pre-registration: Why it is for you too!* **Invited presentation** at the Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology conference (2022, 15 min). Online.
- *Is their future already written? Developmental plasticity and the fate of animals in a changing world.* **Presentation** for the European Thermal Fertility Network (2022). Online.
- *Is their future already written? Developmental plasticity and the fate of animals in a changing world.* **Presentation** at the Society for Integrative and Comparative Biology conference (2022, 12 min). Online.
- *Registered Reports Now!* **Hackathon** at the Society for Open, Reliable, and Transparent Ecology and Evolutionary biology conference (2021, 1.5 hour). Online.
- *Is their future already written? Ectotherms in a changing world.* **Presentation** at the Australasian Evolutionary Society conference (2021, 3 min). Melbourne, Australia.
- *Can developmental plasticity rescue ectotherms from rising temperatures?* **Poster** at the Society for Experimental Biology conference (2021). Online.
- *Gender inequalities? A meta-analysis of sex differences in thermal plasticity.* **Presentation** at the Ecological Society of Australia conference (2020, 10 min). Online.

WORKSHOPS AND PROFESSIONAL COURSES

Through my Scientia PhD Scholarship ($10,000 AUD yearly funding for professional activities), I have been fortunate to participate in various professional courses to strengthen my transferable skills, including leadership, time and people management, communication skills, and grant writing. I have also taken additional courses to develop new skills (e.g., graphic design), acquired additional funding to lead local workshops with other researchers, and organised a workshop and two conference symposia at the *Society for Experimental Biology* conference.

- Society for Experimental Biology conference: *Vulnerability and adaptations of early-life stages to environmental stressors*. **Session organiser** (2025). Antwerp, Belgium. Co-organised with Jérémy de Bonville and Zara-Louise Cowan.
- *Mapping the impacts of anthropogenic threats on biodiversity*. **Workshop leader** (self-organised; 2023). Sydney, Australia.
- Society for Experimental Biology conference: *Plasticity and resilience of developmental stages to climate change*. **Session organiser** (2023). Edinburgh, UK. Co-organised with Katharina Ruthsatz and Nicholas Wu.
- UNSW Skill Transfer workshop: *How to make your science more open?* **Workshop leader** (2023). Sydney, Australia.
- UNSW Evolution & Ecology Research Centre: *Geographical biases in global ecological syntheses*. **Workshop leader** (2023). Smiths Lake, Australia.
- *New horizons for comparative studies and meta-analyses*. **Workshop leader** (self-organised; 2023). Stanwell Park, Australia.
- Society for Experimental Biology conference: *Introduction to Meta-analysis in Comparative Physiology*. **Workshop co-organiser** (2022). Montpellier, France. Co-organised with Daniel Noble, Essie Rodgers, and Nicholas Wu.
- University of Sydney: *Web development course*. **Professional course** (2021; $357 AUD). Online.
- University of Sydney: *Adobe Illustrator course: Level 2*. **Professional course** (2021; $320 AUD). Sydney, Australia.
- University of Sydney: *Adobe Illustrator course: Level 1*. **Professional course** (2021; $598 AUD). Sydney, Australia.
- University of Sydney: *People Management: Essentials*. **Professional course** (2021; $1060 AUD). Sydney, Australia.
- University of Sydney: *Grant Writing: Writing a Winning Grant Application*. **Professional course** (2021; $385 AUD). Online.
- University of Sydney: *Time management: Essentials*. **Professional course** (2021; $660 AUD). Sydney, Australia.
- University of Sydney: *Interpersonal Skills and Effective Communication*. **Professional course** (2021; $496 AUD). Sydney, Australia
- University of Sydney: *Assertive Communication and Conversation Skills: Practical training*. **Professional course** (2021; $496 AUD). Online.
- Australian Graduate School of Management: *Leading an Organisation Through Dynamic Environments*. **Professional course** (2021; $1694 AUD). Sydney, Australia.
- Australian Graduate School of Management: *Leading for High Performance*. **Professional course** (2021; $3850 AUD). Sydney, Australia.
- Australian Graduate School of Management*: Developing Effective Negotiation and Influencing Skills*. **Professional course** (2020; $1925 AUD). Sydney, Australia.
- Australian Graduate School of Management: *Leading through Influence*. **Professional course** (2020; $1925 AUD). Sydney, Australia.
- Australian Graduate School of Management: *The Authentic Communicator: Activating Presence*. **Professional course** (2020; $3850 AUD). Sydney, Australia.
- Australian Graduate School of Management: *Activating virtual presence*. **Professional course** (2020; $792 AUD). Online.
- Australian Graduate School of Management: *Supporting students on the autism spectrum*. **Professional course** (2020; $700 AUD). Online.

OUTREACH & ACTS OF SERVICE

I have been involved in science communication through various media, targeting different audiences including the scientific community (*Twitter/X*), the general public (*The Conversation, Pint of Science, radio, Twitch*), and primary school students (*Skype a Scientist*). My research has also been featured in research highlights in different journals (*Nat. Clim. Change, Nat. Ecol. Evol., Funct. Ecol.*). I have also taken different leadership positions, including serving in the board of directors of *SORTEE,* and reviewed publications for 12 scientific journals.

- Nature Ecology & Evolution **Research Highlight**: *Overheated amphibians* (2025). https://doi.org/10.1038/s41559-025-02706-7
- **The Conversation**: *Hot frogs and sizzling salamanders: climate change is pushing amphibians to their limits* (2025)
- Journal of Thermal Biology: *Ontogenetic variation in thermal biology: assessing life stage-specific adaptations and sensitivity in animals*. **Guest editor** (2025).
- Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (SORTEE): **Board of directors** (2023 - 2026)
- **Eastside radio FM**, Boiling Point: *Why Open Science?* (2023)
- UNSW Science: **Equity, Diversity, and Inclusion Committee** (2022 - 2023)
- Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (SORTEE): **Awards Committee** (2022)
- Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (SORTEE): **Equity, Diversity, and Inclusion Committee** (2022)
- **The Conversation**: *Young cold-blooded animals are suffering the most as Earth heats up, research finds* (2022)
- UNSW Evolution & Ecology Research Centre: **Postgraduate Committee** (2022-2023)
- **Pint of Science**: *Can animals cope with climate change*? Sydney, Australia (2022)
- **Skype a Scientist:** LadyGrove Park primary school, Didcot, UK (2022)
- **Skype a Scientist:** ISS International School, Singapore (2022)
- Functional Ecology **Research Highlight**: *Sex, heat and phenotypic plasticity* (2021). https://doi.org/10.1111/1365-2435.13959
- Nature Climate Change **Research Highlight**: *A question of the sexes* (2021). https://doi.org/10.1038/s41558-021-01177-5
- **#BatteryLow**: Playing video games for Science. Live stream on Twitch. Sydney, Australia (2020).
- **Peer review**: Biological Conservation, Biological Reviews, Ecology Letters, Integrative and Comparative Biology, Global Change Biology, Journal of Animal Ecology, Journal of Evolutionary Biology, Journal of Experimental Zoology Part A – Ecological and Integrative Zoology, Journal of Thermal Biology, Marine Environmental Research, Nature Ecology and Evolution, PeerJ.
- **Social media**: Twitter/X (1,842 followers), BlueSky (1,889 followers).

TEACHING

Although I was mostly in 100% research positions, I have given various lectures and supervised practical courses on diverse topics at the University of New South Wales (UNSW).

- SCIF1131, Introductory Skills for Science (UNSW, 2023): **tutor**
- SCIF1111, Perspectives in Medical Science (UNSW, 2023): **tutor**
- MFAC1501, Introduction to Microbiology (UNSW, 2023): **demonstrator**
- BABS1201, Molecules, Cells and Genes (UNSW, 2023): **demonstrator**
- MSCI0501, The Marine Environment (UNSW, 2023): **demonstrator, invigilator**
- MFAC1527, Society & Health (UNSW, 2022): **demonstrator**
- MFAC1522, Beginnings, Growth and Development B (UNSW, 2022): **demonstrator**
- MFAC1521, Beginnings, Growth and Development B (UNSW, 2022): **demonstrator**
- SCIF1111, Perspectives in Medical Science, Scientific Literacy (UNSW, 2022): **tutor**

SUPERVISION

- Leon Pfeufer, **PhD student** (August 2025 – present). Co-supervised with Fredrik Jutfelt. University of Gothenburg (Sweden).

- Xinyi Liu, **Master student** (July 2024 – July 2025). Co-supervised with Daniel Noble. Australian National University (Australia). Thesis grade: 90/100.
- Shania Chambers, **Undergraduate student** (October 2019 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- James Tickner, **Undergraduate student** (October 2019 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Rebekah Dry, **Undergraduate student (**October 2019 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Conrad Horst, **Undergraduate student** (December 2018 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Anna Lee Thornton, **Undergraduate student** (December 2018 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Kyle Maas, **Undergraduate student** (December 2018 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Nicole Terfloth, **Undergraduate student** (December 2018 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Dylan Hayes, **Undergraduate student** (December 2018 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Charlotte Dolan, **Undergraduate student** (December 2018 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Maeghan Wharton, **Undergraduate student** (December 2018 – December 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Sarah Nelson, **Undergraduate student** (December 2018 – June 2019). Co-supervised with Ryan Earley. University of Alabama (USA).
- Hunter Watson, **Undergraduate student** (December 2018 – June 2019). Co-supervised with Ryan Earley. University of Alabama (USA).

OTHER INFORMATION

- **Laboratory skills**: Experimental design, insect breeding and husbandry, marine fish husbandry, fish handling and body measurements (size, mass), chemical dosing, behavioural trials (movement, feeding, aggression), hormonal extraction and dosing (ELISA), (micro)dissections (brain, gonads).
- **Analytical skills**: Advanced statistical modelling in R, including hierarchical and multivariate models, phylogenetic comparative analyses, meta-analytic models, biophysical modelling, and climate modelling. High-performance computing, relational databases, data wrangling and management, data visualisation.
- **Software**: R, ImageJ, Ethovision, Rayyan, Adobe Illustrator, Microsoft Office, Zotero.
- **Other skills**: Open Science practices (pre-registration, registered reports, preprints, data and code archiving).
- **Professional memberships**: Society for Experimental Biology, Society for Open, Reliable, and Transparent Ecology and Evolutionary biology, Australasian Evolution Society, International Society for Behavioral Ecology, Australian and New Zealand Society for Comparative Physiology & Biochemistry.

REFERENCES

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