

Dr. Alfredo Sánchez-Tójar

Principal Researcher, Center for Neuroscience and Cell Biology & Center for Innovative Biomedicine and Biotechnology, University of Coimbra

Born in Granada (Spain), 28.06.1987

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Evidence synthesist and meta-researcher in ecology and evolution. Strong advocate of open science and a member of the Board of Directors of *SORTEE*










Research Experience


































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| Nov 2022 – Current CNC-UC & CiBB Coimbra, Portugal | Principal Researcher , University of Coimbra |
| Sep 2021 – Oct 2025 Depart. Evolutionary Biology Bielefeld, Germany | Principal Investigator , Bielefeld University <i>Meta-EvoEco-Lab</i> |
| Jul 2018 – Sep 2021 Depart. Evolutionary Biology Bielefeld, Germany | Postdoctoral researcher , Bielefeld University <i>The behavioural ecology of individualized niches in the light of meta-analyses</i> PI: Klaus Reinhold |
| Aug 2013 – Apr 2018 Max Planck Institute for Ornithology Seewiesen, Germany | PhD Student <i>The evolution of social dominance (PhD thesis)</i> PI: Julia Schroeder |
| Jan 2016 – Dec 2017 Depart. Life Sciences Imperial College London United Kingdom | Visiting PhD Student PI: Julia Schroeder |
| Mar 2013 – Jun 2013 Depart. Functional & Evolutionary Ecology Almería, Spain | Field Assistant , Spanish National Research Council PIs: Deseada Parejo, Jesus M. Avilés and Juan G. Martínez |
| Sep 2012 – Oct 2012 Depart. Biological & Environmental Sciences Gothenburg, Sweden | Laboratory Technician , University of Gothenburg PI: Staffan Andersson |






























Education






















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| Oct 2012 – Jul 2013 University of Cordoba, Spain | MSc Animal Behaviour (<i>MSc thesis</i>) |
| Sep 2011 – Jul 2012 University of Gothenburg, Sweden | Erasmus program |
| Sep 2006 – Jul 2011 University of Granada, Spain | BSc Biology |



Publications

Summary: To date, I have published 37 articles—excluding preprints—across 21 different journals. Including equal shared authorships, I am the first author of 10 (27%) and the last author of 4 (11%) of these published articles. Four published articles, along with four or ongoing studies (1, 2, 3, 4), were pre-registered , and another two correspond to Registered Reports . Of the 32 eligible articles, 28 (88%) provide all the open data , and 25 (78%) include the code  necessary to reproduce their results. A full list of articles, including [hyperlinks](#) to their associated data , code , and pre-registrations  as well as their altmetric score, is  provided below. An updated publication list, including preprints, can be found on my  [Google Scholar](#) profile. * indicates corresponding author, † shared authorship.

| # | Publications | Almetrics |
|----|--|---|
| 37 | <p>© Edward R. Ivimey-Cook†*, Alfredo Sánchez-Tójar†*, ...[37 authors]..., Nicholas P. Moran†*. 2025. <i>From policy to practice: progress towards data- and code-sharing in ecology and evolution</i>. <i>Proceedings of the Royal Society B</i>, 292(2039): 20251394. DOI: 10.1098/rspb.2025.1394  </p> |  |
| 36 | <p>Olivia Sanllorente*, Endika Blanco-Urdillo, Alfredo Sánchez-Tójar, Juan Diego Ibáñez-Álamo. 2025. <i>A systematic review and meta-analysis on urban arthropod diversity</i>. <i>Insect Conservation and Diversity</i>, 18(4): 447-464. DOI: 10.1111/icad.12831  </p> |  |
| 35 | <p>Alfredo Sánchez-Tójar*, Aya Bezine, Marija Purgar, Antica Culina*. 2025. <i>Code-sharing policies are associated with increased reproducibility potential of ecological findings</i>. <i>Peer Community Journal</i>, 5:e37. DOI: 10.24072/pcjournal.541  </p> |  |
| 34 | <p>© Lucia Montesana*, Michaela Hau, Pietro B. D'Amelio, Nicolas M. Adreani, Alfredo Sánchez-Tójar. 2025. <i>Do Egg Hormones Have Fitness Consequences in Wild Birds? A Systematic Review and Meta-Analysis</i>. <i>Ecology Letters</i>, 28(3):e70100. DOI: 10.1111/ele.70100  </p> |  |
| 33 | <p>©© Elliot Gould, Hannah Fraser, Timothy H. Parker*, Shinichi Nakagawa, Simon C. Griffith, Peter A. Vesik, Fiona Fidler, Daniel G. Hamilton, et al. 2025. <i>Same data, different analysts: variation in effect sizes due to analytical decisions in ecology and evolutionary biology</i>. <i>BMC Biology</i>, 23:25. DOI: 10.1186/s12915-024-02101-x  </p> |  |
| 32 | <p>Daniel W.A. Noble*, ...[63 authors]..., Shinichi Nakagawa†, Malgorzata Lagisz†. 2025. <i>The promise of community-driven preprints in ecology and evolution</i>. <i>Proceedings of the Royal Society B</i>, 292(2039): 20241487. DOI: 10.1098/rspb.2024.1487  </p> |  |
| 31 | <p>Francesca Santostefano†*, Maria Moiron†, Alfredo Sánchez-Tójar†, David N. Fisher†. 2025. <i>Indirect genetic effects increase the heritable variation available to selection and are largest for behaviors: a meta-analysis</i>. <i>Evolution Letters</i>, 9(1):89-104. DOI: 10.1093/evlett/qrae051  </p> |  |
| 30 | <p>Jamie Dunning*, Alfredo Sánchez-Tójar†, Antje Girndt†, Terry Burke, Yu-Hsun Hsu, Shinichi Nakagawa, Isabel Winney, Julia Schroeder*. 2024. <i>Extra-pair paternity alongside social reproduction increases male lifetime fitness</i>. <i>Animal Behaviour</i>, 213:117-123. DOI: 10.1016/j.anbehav.2024.04.007 </p> |  |
| 29 | <p>Chia-Chen Chang, Maria Moiron, Alfredo Sánchez-Tójar, Petri T. Niemelä, Kate Laskowski*. 2024. <i>What's the meta-analytic evidence for life-history trade-offs at the genetic level?</i> <i>Ecology Letters</i>, 27(1): e14354. DOI: 10.1111/ele.14354  </p> |  |
| 28 | <p>Friederike E. Kohrs, ...[50 authors]..., Tracey L Weissgerber*. 2024. <i>Eleven Strategies for Making Reproducible Research and Open Science Training the Norm at Research Institutions</i>. <i>eLife</i>, 12:e89736. DOI: 10.7554/eLife.89736</p> |  |
| 27 | <p>Edward R. Ivimey-Cook*, Joel L. Pick, Kevin R. Bairos-Novak, Antica Culina*, Elliot Gould, Matthew Grainger, Benjamin M. Marshall, David Moreau, Matthieu Paquet, Raphaël Royauté, Alfredo Sánchez-Tójar, Inês Silva, Saras M. Windecker*. 2023. <i>Implementing Code Review in the Scientific Workflow: Insights from Ecology and Evolutionary Biology</i>. <i>Journal of Evolutionary Biology</i>, 36(10): 1347-1356. DOI: 10.1111/jeb.14230</p> |  |
| 26 | <p>Michael G. Bertram*, Josefin Sundin, Dominique G. Roche, Alfredo Sánchez-Tójar, Eli S.J. Thoré, Tomas Brodin. 2023. <i>Open Science</i>. <i>Current Biology</i>, 33(15): R781–R802. DOI: 10.1016/j.cub.2023.05.036</p> |  |
| 25 | <p>Irene Gaona-Gordillo*, Benedikt Holtmann, Alexia Mouchet, Alexander Hutfuss, Alfredo Sánchez-Tójar, Niels J. Dingemanse*. 2023. <i>Are animal personality, body condition, physiology and structural size integrated? A comparison of species, populations and sexes, and the value of study replication</i>. <i>Journal of Animal Ecology</i>, 92(9): 1707-1718. DOI: 10.1111/1365-2656.13966  </p> |  |
| 24 | <p>©© Yefeng Yang*, Alfredo Sánchez-Tójar, Rose E. O'Dea, Daniel W.A. Noble, Julia Koricheva, Michael D. Jennions, Timothy H. Parker, Malgorzata Lagisz, Shinichi Nakagawa. 2023. <i>Publication bias impacts on effect size, statistical</i></p> |  |

- power, and magnitude (Type M) and sign (Type S) errors in ecology and evolutionary biology. *BMC Biology*, 21: 71. DOI: [10.1186/s12915-022-01485-y](https://doi.org/10.1186/s12915-022-01485-y)  
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- 23 Pablo Capilla-Lasheras*, Megan Thompson, **Alfredo Sánchez-Tójar**, Yacob Haddou, Claire Branston, Denis Reale, Anne Charmantier, Davide Dominoni. 2022. *A global meta-analysis reveals higher variation in breeding phenology in urban birds than in their non-urban neighbours*. *Ecology Letters*, 25(11): 2552-2570. DOI: [10.1111/ele.14099](https://doi.org/10.1111/ele.14099)   
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- 22 Sophie Bennett*, Antje Girndt, **Alfredo Sánchez-Tójar**, Terry Burke, Mirre Simons, Julia Schroeder. 2022. *Evidence of Paternal Effects on Telomere Length Increases in Early Life*. *Frontiers in Genetics*, 13:880455. DOI: [10.3389/fgene.2022.880455](https://doi.org/10.3389/fgene.2022.880455)   
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- 21 **Alfredo Sánchez-Tójar***†, Maria Moiron† and Petri T. Niemelä†. 2022. *Terminology use in animal personality research: a self-report questionnaire and a systematic review*. *Proceedings of the Royal Society B*, 289(1968): 20212259. DOI: [10.1098/rspb.2021.2259](https://doi.org/10.1098/rspb.2021.2259)   
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- 20 Shinichi Nakagawa*, Malgorzata Lagisz, Michael D. Jennions, Julia Koricheva, Daniel W. A. Noble, Timothy H. Parker, **Alfredo Sánchez-Tójar***, Yefeng Yang, Rose E. O'Dea. 2022. *Methods for testing publication bias in ecological and evolutionary meta-analyses*. *Methods in Ecology and Evolution*, 13(1): 4-21. DOI: [10.1111/2041-210X.13724](https://doi.org/10.1111/2041-210X.13724)   
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- 19 Emily A. Hennessy*, Rebecca L. Acabchuk, Pieter A. Arnold, Adam G. Dunn, Yong Zhi Foo, Blair T. Johnson, Sonya R. Geange, Neal R. Haddaway, Shinichi Nakagawa, Witness Mapanga, Kerrie Mengersen, Matthew J. Page, **Alfredo Sánchez-Tójar**, Vivian Welch, Luke A. McGuinness. 2022. *Ensuring Prevention Science Research is Synthesis-Ready for Immediate and Lasting Scientific Impact*. *Prevention Science*, 23: 809-820. DOI: [10.1007/s11121-021-01279-8](https://doi.org/10.1007/s11121-021-01279-8)   
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- 18 Rose E. O'Dea*, Timothy H. Parker, Yung En Chee, Antica Culina, Szymon M. Drobniak, David H. Duncan, Fiona Fidler, Elliot Gould, Malika Ihle, Clint D. Kelly, Malgorzata Lagisz, Dominique G. Roche, **Alfredo Sánchez-Tójar**, David P. Wilkinson, Bonnie C. Wintle, Shinichi Nakagawa. 2021. *Towards open, reliable, and transparent ecology and evolutionary biology*. *BMC Biology*, 19: 68. DOI: [10.1186/s12915-021-01006-3](https://doi.org/10.1186/s12915-021-01006-3) 
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- 17 @ Bora Kim*, Nicholas P. Moran†, Klaus Reinhold, **Alfredo Sánchez-Tójar**†. 2021. *Male size and reproductive performance in three species of livebearing fishes (Gambusia spp.): a systematic review and meta-analysis*. *Journal of Animal Ecology*, 90(10):2431-2445. DOI: [10.1111/1365-2656.13554](https://doi.org/10.1111/1365-2656.13554)   
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- 16 @ Nicholas P. Moran*, **Alfredo Sánchez-Tójar**, Holger Schielzeth, Klaus Reinhold. 2021. *Poor nutritional condition promotes high-risk behaviours: a systematic review and meta-analysis*. *Biological Reviews*, 96(1):269-288. DOI: [10.1111/brv.12655](https://doi.org/10.1111/brv.12655)   
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- 15 Mireia Plaza, Terry Burke, Tara Cox, Alexander Flynn-Carroll, Antje Girndt, Georgina Halford, Dominic A. Martin, Moises Sánchez-Fortun, **Alfredo Sánchez-Tójar**, Jasmine Somerville, Julia Schroeder*. 2020. *Social network node-based metrics can function as proxies for animal personality traits*. *Journal of Evolutionary Biology*, 33(11): 1634-1642. DOI: [10.1111/jeb.13703](https://doi.org/10.1111/jeb.13703) 
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- 14 Marta Precioso*, Mercedes Molina-Morales, **Alfredo Sánchez-Tójar**, Jesús M. Avilés, Juan G. Martínez. 2020. *Brood parasitism, provisioning rates and breeding phenology of male and female magpie hosts*. *Journal of Avian Biology*, 51(10): e02522. DOI: [10.1111/jav.02522](https://doi.org/10.1111/jav.02522)   
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- 13 **Alfredo Sánchez-Tójar***, Malgorzata Lagisz, Nicholas P. Moran, Shinichi Nakagawa, Daniel W. A. Noble, Klaus Reinhold. 2020. *The jury is still out regarding the generality of adaptive 'transgenerational' effects*. *Ecology Letters*, 23(11): 1715-1718. DOI: [10.1111/ele.13479](https://doi.org/10.1111/ele.13479)   
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- 12 **Alfredo Sánchez-Tójar***, Nicholas P. Moran, Rose E. O'Dea, Klaus Reinhold, Shinichi Nakagawa. 2020. *Illustrating the importance of meta-analysing variances alongside means in ecology and evolution*. *Journal of Evolutionary Biology*, 33(9): 1216-1223. DOI: [10.1111/jeb.13661](https://doi.org/10.1111/jeb.13661)   
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- 11 Antica Culina*, Ilona van den Berga, Simon Evans, **Alfredo Sánchez-Tójar***. 2020. *Low availability of code in ecology: a call for urgent action*. *PLoS Biology*, 18(7): e3000763. DOI: [10.1371/journal.pbio.3000763](https://doi.org/10.1371/journal.pbio.3000763)   

| 10 | Shinichi Nakagawa*, Adam G. Dunn, Malgorzata Lagisz, Alexandra Bannach-Brown, Eliza M. Grames, Alfredo Sánchez-Tójar , Rose E. O'Dea, Daniel W. A. Noble, Martin J. Westgate, Pieter A. Arnold, Stuart Barrow, Alison Bethel, Eve Cooper, Yong Zhi Foo, Sonya R. Geange, Emily Hennessy, Witness Mapanga, Kerrie Mengersen, Claudia Munera, Matthew J. Page, Vivian Welch, Evidence Synthesis Hackathon 2019 Participants, Neal R. Haddaway. 2020. <i>A new ecosystem for evidence synthesis</i> . <i>Nature Ecology and Evolution</i> , 4: 498-501. DOI: 10.1038/s41559-020-1153-2 |  |
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| 9 | Antje Girndt*, Glenn Cockburn, Alfredo Sánchez-Tójar , Terry Burke, Julia Schroeder. 2019. <i>Male age and its association with reproductive traits in captive and wild house sparrows</i> . <i>Journal of Evolutionary Biology</i> , 32(12): 1432-1443. DOI: 10.1111/jeb.13542   |  |
| 8 | Alfredo Sánchez-Tójar* , Shinichi Nakagawa, Moises Sánchez-Fortún, Sukanya Ramani, Dominic Martin, Antje Girndt, Veronika Bókony, Bart Kempnaers, András Liker, David F. Westneat Terry Burke, Julia Schroeder. 2018. <i>Meta-analysis challenges a textbook example of status signalling and demonstrates publication bias</i> . <i>eLife</i> , 7:e37385. DOI: 10.7554/eLife.37385   |  |
| 7 | Alfredo Sánchez-Tójar* , Julia Schroeder, Damien R. Farine*. 2018. <i>A practical guide for inferring dominance hierarchies and estimating their uncertainty</i> . <i>Journal of Animal Ecology</i> , 87(3):594-608. DOI: 10.1111/1365-2656.12776   |  |
| 6 | Isabel Winney*, Julia Schroeder, Shinichi Nakagawa, Yu-Hsun Hsu, Mirre J.P. Simons, Alfredo Sánchez-Tójar , Maria-Elena Mannarelli, Terry Burke. 2018. <i>Heritability and social brood effects in personality across life stages in a wild passerine</i> . <i>Journal of Evolutionary Biology</i> , 31(1):75-87. DOI: 10.1111/jeb.13197 |  |
| 5 | Antje Girndt*, Glenn Cockburn, Alfredo Sánchez-Tójar , Hanne Løvlie, Julia Schroeder*. 2017. <i>Method matters: Experimental evidence for shorter avian sperm in faecal compared to abdominal massage samples</i> . <i>PLoS ONE</i> , 12(8): e0182853. DOI: 10.1371/journal.pone.0182853   |  |
| 4 | Mónica Expósito-Granados*, Deseada Parejo, Juan G. Martínez, Alfredo Sánchez-Tójar , Marta Precioso, Mercedes Molina-Morales, Jesús M. Avilés. 2017. <i>An experimental test of host's life history traits modulation in response to cuckoo parasitism risk</i> . <i>PLoS ONE</i> , 12(6): e0179206. DOI: 10.1371/journal.pone.0179206  |  |
| 3 | Alfredo Sánchez-Tójar* , Isabel Winney, Antje Girndt, Mirre J.P. Simons, Shinichi Nakagawa, Terry Burke, Julia Schroeder. 2017. <i>Winter territory prospecting is associated with life-history stage but not activity in a passerine</i> . <i>Journal of Avian Biology</i> , 48(3): 407-416. DOI: 10.1111/jav.01055  |  |
| 2 | Alfredo Sánchez-Tójar* , Deseada Parejo, Juan G. Martínez, Juan Rodríguez-Ruiz, Jesús M. Avilés. 2015. <i>Parentage analyses reveal hidden breeding strategies of European rollers Coracias garrulus</i> . <i>Acta Ornithologica</i> , 50(2): 252-258. DOI: 10.3161/00016454AO2015.50.2.013 |  |
| 1 | Juan Moreno*, Juan G. Martínez, Sonia González-Braojos, Rafael Ruiz-de-Castaneda, Alejandro Cantarero, Alfredo Sánchez-Tójar . 2013. <i>Extra-pair matings, context-dependence and offspring quality: A brood manipulation experiment in pied flycatchers</i> . <i>Behaviour</i> , 150(3-4): 359-380. DOI: 10.1163/1568539X-00003056 |  |
| # | Preprints | Almetrics |
| 38 | Klaus Reinhold*, Alfredo Sánchez-Tójar . 2025. <i>Wing length canalisation and behaviour across birds: a phylogenetic meta-analysis of variance</i> . <i>EcoEvoRxiv</i> . DOI: 10.32942/X2PG92   |  |
| 39 | Vojtech Blik*, Ivan Maggini, Brady Mattsson, Shinichi Nakagawa, D. Ryan Norris, Pavel Pipek, José Manuel Reyes-González, Alfredo Sánchez-Tójar . 2025. <i>A protocol for systematic mapping: a Systematic Map Protocol</i> . <i>PROCEED</i> , 25-00358. DOI: 10.57808/proceed.2025.28 | |

Antica Culina*, Dugald Foster, Matthew Grainger, Rose E O'Dea, **Alfredo Sánchez-Tójar**, Oliver L. Pescott, Rob James Boyd, Julia Koricheva, Shinichi Nakagawa, Gavin Stewart. 2025. *Elevating the importance of Risk of Bias assessment for ecology and evolution*. *EcoEvoRxiv*. DOI: [10.32942/X2764C](https://doi.org/10.32942/X2764C)  



Edward R. Ivimey-Cook*, Antica Culina, Shreya Dimri, Matthew Grainger, Fonti Kar, Malgorzata Lagisz, Nicholas Patrick Moran, Shinichi Nakagawa, Dominique G. Roche, **Alfredo Sánchez-Tójar**, Saras M Windecker, Joel L Pick*. 2025. *TADA! Simple guidelines to improve code sharing*. *EcoEvoRxiv*. DOI: [10.32942/X2D93K](https://doi.org/10.32942/X2D93K)



Joel L. Pick*, Bethany Allen, Benedicte Bachelot, Kevin R Bairos-Novak, Jack A. Brand, Barbara Class, Tad Dallas, Pietro B. D'Amelio, Erola Fenollosa, Esteban Fernández-Juricic, Dylan G. E. Gomes, Matthew Grainger, Thomas Guillemaud, Christian John, Ruby Krasnow, Malgorzata Lagisz, Sebastian Lequime, Daniel Maynard, Shinichi Nakagawa, Rose E O'Dea, Matthieu Paquet, Quentin Petitjean, **Alfredo Sánchez-Tójar**, Natalie E. van Dis, Laura AB Wilson, Edward R. Ivimey-Cook*. 2025. *The SORTEE Guidelines for Data and Code Quality Control in Ecology and Evolutionary Biology*. *EcoEvoRxiv*. DOI: [10.32942/X24P8S](https://doi.org/10.32942/X24P8S)



Software development

Damien R. Farine, **Alfredo Sánchez-Tójar**. 2017. *aniDom: Inferring Dominance Hierarchies and Estimating Uncertainty: R-software package available at: <https://cran.r-project.org/package=aniDom>*

Peer-review

I was a member of the Editorial Board of Behavioral Ecology from 2021 to 2023, and I am currently a Receiving Editor and Data and Code Editor at [Ecology Letters](#). To date, I have reviewed 46 studies for 28 different journals and have handled 10 manuscripts as a Receiving Editor and 8 manuscripts as a Data Editor for Ecology Letters. Additionally, I have reviewed 4 grant applications. A validated list of my peer-review experience, along with some of my reviews, can be found [here](#).

Supervision (Graduates)

I am currently supervising 1 PhD student and co-supervising 1 PhD student.

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| 2021 – now | PhD thesis of Shreya Dimri , Bielefeld University: <i>Evidence synthesis to understand behavioral variation within and between species</i> . |
| 2022 – now | PhD thesis of Tuba Rizvi , Bielefeld University: <i>Understanding the Effect of Population Density on Female Mate Choice and Shared Behavioural Traits</i> . Co-supervised with Klaus Reinhold. |
| 2022 – 2025 | Postdoctoral project of Julio Segovia , Bielefeld University: <i>Context-dependent behavior in prey-predator interactions: an evidence synthesis approach</i> . |
| 2021 – 2023 | Postdoctoral project of Lucia Montesana , Max Planck Institute for Ornithology & Bielefeld University: <i>Fitness consequences of egg hormones in the light of evidence synthesis</i> . Co-supervised with Michaela Hau. |

Supervision (Undergraduates)

To date, I have (co-)supervised a total of 8 MSc theses and 3 BSc theses across 7 different universities. In addition, I have supervised 11 research student projects and guided 2 student helpers (Vedant Dixit, Chiara Flaskamp).

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| 2025 | Project module of Lars Schumacher, Bielefeld University: A systematic review on Iberian and Azure-winged magpies |
| 2024 | MSc thesis of Hannah Wilhelm, WWU Münster: <i>A meta-analysis on trans and inter-generational immune priming in invertebrates</i> . Co-supervised with Joachim Kurtz |

- 2024 **BSc thesis** of Emma Cyplik, Bielefeld University: *What is the state of the status signalling hypothesis in birds? A systematic review and meta-analysis* [[@ Pre-registration](#)]
- 2023 Project module of Bent Bollgönn, Bielefeld University: *What is the state of the status signalling hypothesis in birds? A systematic review* [[@ Pre-registration](#)]
- 2023 Project module of Emma Cyplik, Bielefeld University: *What is the state of the status signalling hypothesis in birds? A systematic review*
- 2023 Project module of Aya Bezine, Bielefeld University: *Code-sharing policies in Ecology: do they work?* [[Article](#)]
- 2022 Research module project of Marit Praetz, Bielefeld University: *Determining the quality of recently published meta-analyses in ecology and evolution*
- 2021 **BSc thesis** of Hannah Wilhelm, WWU Münster: *A systematic review on trans and inter-generational immune priming in invertebrates*. Co-supervised with Joachim Kurtz
- 2020 Research module project of Paula Olías García, Bielefeld University: *How methodology influences animal physiology research: a case study on avian sperm collection techniques*
- 2019 **MSc thesis** of Bora Kim, Bielefeld University: *The fitness consequences of male social dominance and body size in mosquitofish: a systematic review and meta-analysis*. Co-supervised with Nicholas Moran [[@ Pre-registration](#)] [[Article](#)]
- 2018 **BSc thesis** of Mae Nielsen, University of Bath: *Assortative genetic mating in wild plovers*. Co-supervised with Julia Schroeder & Tamas Székely
- 2017 **MSc thesis** of Iqbal Bhalla, Imperial College London: *The impact of state-behaviour feedback mechanisms on personality and social structure in the house sparrow*. Co-supervised with Julia Schroeder
- 2017 **MSc thesis** of Robyn Geldard, Imperial College London: *Investigating the spill over hypothesis to explain extra-pair mating in female house sparrows (*Passer domesticus*)*. Co-supervised with Julia Schroeder
- 2017 Research student project of Iqbal Bhalla, Imperial College London: *Analysis of the social network of captive house sparrows (*Passer domesticus*)*. Co-supervised with Julia Schroeder
- 2017 Research student project of Karen Bongrain, Imperial College London: *Social dominance and parental care in wild house sparrows*. Co-supervised with Julia Schroeder
- 2017 Research student project of Jennifer Dawson, Imperial College London: *Social dominance and extra-pair paternity in wild house sparrows*. Co-supervised with Julia Schroeder
- 2016 **MSc thesis** of Dominic Martin, Imperial College London: *High social status is associated with improved first winter survival in a wild passerine population*. Co-supervised with Julia Schroeder
- 2016 Research student project of Dominic Martin, Imperial College London: *No evidence for status signalling via badge size in House Sparrows*. Co-supervised with Julia Schroeder [[Article](#)]
- 2015 **MSc thesis** of Moises Sánchez-Fortún, University of Sheffield: *Dominance status, age and activity in captive wintering male house sparrows*. Co-supervised with Julia Schroeder [[Article](#)]
- 2015 **MSc thesis** of Sukanya Ramani, Bielefeld University: *Effect of familiarity and relatedness on aggression in house sparrows*. Co-supervised with Julia Schroeder & Peter Korsten
- 2015 Research student project of Paulien van der Werf, University of Groningen: *Is there a relation between age/extra-pair mating and caring behaviour in house sparrows?* Co-supervised with Julia Schroeder
- 2014 Research student project of Sukanya Ramani, Bielefeld University: *The effect of time and environment on bib size in house sparrows*. Co-supervised with Julia Schroeder [[Article](#)]
- 2014 **MSc thesis** of Leticia Lopera-Doblas, University of Cordoba: *Behavioural consistency and parental care in a wild house sparrow population*. Co-supervised with Julia Schroeder

Invited Talks

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| Sep 2025 <i>In-person</i> | Leveraging community-driven meta-research for reliable meta-analyses . RQI Symposium, Zagreb, Croatia . |
| Jun 2025 <i>In-person</i> | Meta-research for More Reliable Ecology and Evolution. University of Coimbra, Portugal . |
| Jun 2025 <i>Virtual</i> | Practising what we preach: Rethinking standards in meta-analysis for ecology and evolution. ESMARConf2025 . [recording] |
| Jan 2025 <i>In-person</i> | Separating the wheat from the chaff in evidence synthesis . Oregon State University, Corvallis, USA . |
| Jun 2024 <i>In-person</i> | Publication bias : studying it, adjusting for it, and preventing it. ZeSt Colloquium, Bielefeld University, Germany. |
| Apr 2024 <i>In-person</i> | Are meta-analyses worth the hassle? TL;DR: It depends. Behaviour and Evolution Seminar, Bielefeld University, Germany. |
| Mar 2024 <i>In-person</i> | <i>Round table</i> on Academia in Ecology and Evolution. EOU Fledglings Conference, Prague, Czech Republic . |
| Mar 2024 <i>In-person</i> | Publication bias : studying it, adjusting for it, and preventing it. Keynote speaker at the EOU Fledglings Conference, Prague, Czech Republic . [recording] |
| Mar 2024 <i>In-person</i> | Are meta-analyses worth the hassle? TL;DR: It depends. Charles University, Prague, Czech Republic . |
| Mar 2024 <i>Virtual</i> | Publication bias : studying it, adjusting for it, and preventing it. University of Basel , Switzerland . |
| Feb 2024 <i>In-person</i> | Are meta-analyses worth the hassle? TL;DR: It depends. MPI for Biological Intelligence, Seewiesen , Germany. |
| Dec 2023 <i>In-person</i> | Reducing publication bias with pre-registration and Registered Reports . University of Neuchatel, Switzerland . |
| Jun 2023 <i>Virtual</i> | Publication bias in ecology and evolutionary biology. Peer Community In Webinar Series . [recording] |
| Feb 2023 <i>Virtual</i> | Publication bias in ecology and evolutionary biology. Centre for Biological Diversity, University of St Andrews , UK . |
| Aug 2022 <i>In-person</i> | Low transparency and reporting quality in meta-analyses in ecology and evolution . Ecological Society of America Conference, Organized Oral Session: Meta-analysis in Ecology: Challenges, Advances, and Successful Applications. Montreal, Canada . |
| Jul 2022 <i>Virtual</i> | <i>Round table</i> on Data Editing . Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology conference. |
| Jun 2022 <i>Virtual</i> | Neaten up your code : a briefing. Living Norway: Ecological Data Network , Norway . [recording] |
| May 2022 <i>In-person</i> | Towards open, reliable, and transparent science : an introduction. BioMove, University of Potsdam , Germany. |
| Nov 2021 <i>Virtual</i> | Revolutionizing science with pre-registration and registered reports : an introduction. Open Science Network Bielefeld, Bielefeld University, Germany. |
| Oct 2021 <i>Virtual</i> | <i>Round table</i> on open science . Open Science Network Bielefeld, Bielefeld University, Germany. |
| Sep 2021 <i>In-person</i> | Male size and reproductive performance: A systematic review and meta-analysis . Helgoland , Germany. |

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| <i>Jun 2021</i> <i>Virtual</i> | Towards open, reliable, and transparent science : an introduction. AEET-SFE ² Conference for Early Career Researchers, Session: Open Science . [recording] |
| <i>Apr 2021</i> <i>Virtual</i> | Publication bias in ecology and evolution: open science to the rescue? Brain and Behaviour Seminar, Bielefeld University, Germany . |
| <i>Apr 2021</i> <i>Virtual</i> | Publication bias in ecology and evolution: open science to the rescue? East Anglia University, UK . |
| <i>Apr 2021</i> <i>Virtual</i> | Publication bias in ecology and evolution: open science to the rescue? Konrad Institute Vienna, Austria . |
| <i>Feb 2021</i> <i>Virtual</i> | <i>Round table</i> on Academia . Science+ Colloquium, Bielefeld University, Germany . |
| <i>Dec 2020</i> <i>Virtual</i> | Making your science more open, reliable & transparent . Ludwig-Maximilians-Universität München, Germany . |
| <i>Jun 2020</i> <i>Virtual</i> | Environmental stress effects on variance in fitness and behaviour in the light of meta-analyses . Université du Québec à Montréal, Canada . |
| <i>Apr 2020</i> <i>Virtual</i> | Recent meta-analytic evidence for (super) early-life effects on fitness (and behaviour). Ludwig-Maximilians-Universität München, Germany . |
| <i>Sep 2019</i> <i>In-person</i> | Improving your science: pre-registration, transparency, sharing and reproducibility . Kratzeburg, Germany . |
| <i>Jan 2019</i> <i>In-person</i> | What can house sparrows teach us about the life sciences? University of New South Wales, Sydney, Australia |
| <i>Mar 2018</i> <i>In-person</i> | The evolution of social dominance. Bielefeld University, Germany . |
| <i>Jan 2018</i> <i>In-person</i> | Social dominance: why, how and what. Max Planck Institute for Ornithology, Seewiesen, Germany . |
| <i>Nov 2017</i> <i>In-person</i> | Social dominance in sparrows: What do we know about it? MSc field course. Lundy Island, UK . |
| <i>Jun 2017</i> <i>In-person</i> | Replication is hard: no status signalling in its model species. Imperial College London , Silwood Park Campus, UK . |
| <i>Apr 2017</i> <i>In-person</i> | Status without a badge in house sparrows. University of Gothenburg, Sweden . |
| <i>Nov 2016</i> <i>In-person</i> | Social dominance in sparrows: What do we know about it? MSc field course. Lundy Island, UK . |
| <i>Oct 2016</i> <i>In-person</i> | Fitness consequences of individual dominance status. Grand Challenges Symposium. University of Konstanz, Germany . |
| <i>Jun 2016</i> <i>In-person</i> | A badge of status? University of Granada, Spain . |
| <i>Mar 2013</i> <i>In-person</i> | Nest size as a post-mating secondary sexually selected trait in magpies. Selection Symposium. University of Konstanz, Germany . |

Awards & Grants

The list below includes all funding projects and awards I have ever applied for, whether successful or **not**.

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| Apr 2025 <i>Awaiting decision</i> | CRC SFB-TRR 212 Project DO5 (3 rd phase): <i>The causes and consequences of individual differences from a meta-analytic perspective</i> : 352,800 €. Solo-written. Co-signed by Holger Schielzeth. |
| Oct 2023 | Open Science Award by the Spanish Association of Terrestrial Ecology (AEET), shared with SORTEE. |
| Sep 2023 | Familienunterstützenden Maßnahmen für Lehrende: 3,500 €. |
| Jun 2023 | FoKo Research Project for Early Career Researchers. Research and Innovation Funds, Faculty of Biology, Bielefeld University: <i>Drivers of complexity in sociality in an iconic range-restricted cooperative breeding bird</i> : 3,000 €. |
| Nov 2021 | CRC SFB-TRR 212 Project DO5 (2 nd phase): <i>Individual niche specialisation in the light of evidence synthesis</i> : 486,140 €. Co-written with Holger Schielzeth & Klaus Reinhold. |
| Oct 2021 | Student helper Covid-HiWi position. Bielefeld University: 500 €. |
| April 2021 <i>Unsuccessful</i> | Einstein Foundation Award, Early Career Award: <i>Meta-researching meta-analysis for more reliable and transparent science</i> . |
| Mar 2021 | Student helper Covid-HiWi position. Bielefeld University: 500 €. |
| Dec 2020 <i>Unsuccessful</i> | Klaus Tschira Boost Fund: <i>Meta-researching meta-analysis for more reliable and transparent science</i> . |
| Dec 2020 | Student helper Covid-HiWi position. Bielefeld University: 500 €. |
| Feb 2019 | Travel grant. Evidence Synthesis Hackathon: 1,000 AUD. |
| Jan 2019 | NC ³ Travel grant. Lab visit: 2,200 €. |
| Oct 2017 | Travel grant. 8 th Hole-nesting birds conference: 800 €. |
| Oct 2017 <i>Declined</i> | IMPRS Travel grant. 8 th Hole-nesting birds conference: 786 €. |
| Apr 2015 | IMPRS Project grant. <i>Nest defence in magpies and its association with brood parasitism</i> : 2,400 €. |
| Jul 2014 | Award: Master's thesis with Honours |
| Jul 2012 | Award: BSc with Honours |
| Nov 2010 | Research scholarship. University of Granada: 2,700 €. Supervisor: Juan G. Martínez |
| Jul 2010 | JAE-Intro research scholarship: 2,000 €. Supervisor: Juan J. Negro |
| Jun 2010 | Research scholarship. University of Granada: 900€. Supervisor: Juan G. Martínez |
| Nov 2009 | Award: Best year BSc marks: 300 €. |
| Aug 2009 | JAE-Intro research scholarship: 2,000 €. Supervisor: Jaime Potti |

Service to the community

I co-organized several academic events, including: (1) The 27th **DZG Graduate Meeting** on Evolutionary Biology at Bielefeld University (March 31 – April 2, 2022: [info](#)) with Steve Ramm. (2) The symposium “**Meta-research** for Behavioural Ecology: It's Time!” at the International Behaviour Conference (August 14–20, 2023: [info](#)) with Antica Culina. (3) The workshop “The **Evidence Synthesis** Toolkit: Perspectives from Philosophy and Biology” at Bielefeld University (August 7–8, 2024: [info](#)) with Alkistis Elliott-Graves.

Outreach

Beyond sharing my research on social media to engage both scientists and the public, I have participated in several radio interviews (e.g., [Replication](#), [Many-analysts](#)) and press features (e.g., [Dominance](#), [Genetics](#), [Many-analysts](#),

[Hormones](#)). I have also contributed blog posts and research digests (e.g., [Dominance](#), [Sparrows](#), [Open Data Reuse](#), [Open Science](#)). Additionally, my work has been featured in podcasts (e.g., [BBC](#)), books (e.g., pg 33-34, ref 347 *Science Fictions* by Stuart Ritchie), and Wikipedia articles (e.g., [Replication crisis](#), [Publication bias](#), [Meta-analysis](#)).

Memberships

Below is a list of societies I am or have been a member of. In addition to serving on the Board of Directors of SORTEE, I have been a member of its social media committee since 2020 and an ambassador for the preprint server EcoEvoRxiv since 2018.

2015 – present Spanish Ornithological Society member.

2013 – 2018 British Trust for Ornithology.

2010 – present Spanish Ethology and Evolutionary Ecology Society member.

2010 – 2018 Spanish Evolutionary Biology Society member.

2020 – present International Society for Behavioral Ecology.

2021 – present Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology.

Languages

English, Spanish, German (basic)