

## Curriculum vitae

### Personal information

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Name	Stefan Pinkert
Date of birth	01.09.1989
Place of birth	Berlin Lichtenberg
Children	Lotta & Mina Pinkert

### Education

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2017-2020	PhD at the Philipps-University Marburg. Thesis: „Functional and historical determinants of the distribution and abundance of insects. Supervisors: Prof. Dr. Roland Brandl und Prof. Dr. Stefan Brunzel (Thesis: summa cum laude).
since 2016	M.Sc. Environmental Geography – Systems, Processes and Interactions at the Philipps-University Marburg (overall mark: 14.1, Thesis: pending)
2013-2016	M.Sc. Biodiversity and Nature Conservation at the Philipps-University Marburg (overall mark: 13.1, Thesis: 14)
2010-2013	B.Sc. Biology (overall mark: 12.6, Thesis: 15)
2009-2010	Civil service at NABU Nature Center Katinger Watt near Tönning, guide at the Wadden Sea National Park (Schleswig-Holstein)
2009	Anna-Seghers Comprehensive School, Berlin

### Work experience

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since May 2020	Postdoctoral associate at Yale University and the Yale Center for Biodiversity and Climate Change. On a Feodor-Lynen fellowship (Alexander von Humboldt Foundation) since Feb 2021.
2017-2020	Research assistant at the University of Applied Sciences Erfurt (teaching and research)
2016-2017 (12m)	Fellowship of the Philipps-University Marburg
2015 (3m)	Student assistant in the DFG-Project <i>LEGATO</i> (data management)
2014-2015 (13m)	Student assistant in the BMBF-Project <i>SULAMA</i> (identification of Madagascan ants and beetles)
2014 (3m)	Student assistant, Philipps-University Marburg (teaching)
2014 (3m)	Student assistant in the DFG-Project <i>PROMOS</i> (spectrometry)
2013-2015	Freelancer (bird assessments)

### Field and collection work

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2017-2019 (6w)	Local butterfly inventories and quantification of nectar uptake, wing beat frequency and morphological traits at sites in Central and Southern Europe
2014-2017 (5w)	Collection work and phylogenetic analysis of 61 new African and all European Odonata species; published in Pinkert et al. (2018) and Dijkstra et al. (2015, <i>Odonatologica</i> : 44)
2016 (3+4w)	Description of three new fossil Odonata; published in Pinkert et al. (2017a, b) Collection and revision of material on African Acrididae and Lentulidae (Orthoptera); some included in Hemp et al. (2020, <i>J. Biogeogr.</i> )
2015 (8w)	DFG-Project: Bale Mountains National park, Ethiopia – Field collection of dragonflies, grasshoppers, and carabid beetles
2014 (3w)	DAAD-Project <i>BioLuz</i> : Philippines – Conception of field work

## Stefan Pinkert

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- 2013 (6w) DBU-Project: Białowieża National park, Poland – Observations/assessments of mammal/bird-plants interactions and network analysis
- 2011 (14w) DFG-Project *PROMOS*: Tibetan highlands – Collection of Hymenoptera and Orthoptera (Senckenberg Museum Görlitz); Hyperspectral imaging of vegetation (Remote sensing, Philipps-University Marburg)

### Summer schools, workshops and internships

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- 2020 Seminar series – Color extraction, classification, visualization & similarity analysis with Python. Yale University; Lecturers: Catherine DeRose and Doug Duhaime
- 2018 Workshop – “Congruence of biodiversity facets”. iDiv, Leipzig; Organizer: Marten Winter
- 2016 Workshop – “Biotic interactions and joint species distribution models”. GfÖ, Marburg; Organizer: Carsten Dormann and Casper Kraan
- Distributed European School of Taxonomists Training – “Entomology with specialization in fossil insects: Phylogeny, biogeography, and paleoecology”. MNHN, Paris; Lecturer: André Nel
- Summer school – “Biodiversity synthesis and integration”. iDiv, Leipzig; Organizer: Stan Harpole
- Summer school – “The use of phylogenies in the study of macroevolution”. Transmitting Science, Barcelona; Lecturer: Juan Cantalapiedra
- 2015 Workshop – “GFBio Data Management”. GfÖ, Göttingen
- Summer school – “Mountain ecology and biogeography”. Addis Ababa University, Addis Abeba; Lecturer: George Miede and Wolfgang Zech
- Internship – “Dragonfly systematics”. Naturalis Biodiversity Centre, Leiden; Lecturer: Klaas-Douwe Dijkstra

### Scientific engagement

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- since 2020 Collaboration with the [half-earthproject.org/](http://half-earthproject.org/) on mapping priority regions of the global diversity of Lepidoptera
- since 2020 Collaboration and contact for natura2000 Manager for the topics General Ecology: [natura2000manager.de/oekologie/allgemein/](http://natura2000manager.de/oekologie/allgemein/) and Ecology of the Natura 2000-Species: [natura2000manager.de/oekologie/arten/](http://natura2000manager.de/oekologie/arten/)
- since 2020 Ongoing collaboration with [deutschlands-natur.de/](http://deutschlands-natur.de/) – Member of the advisory board and developer of the “Deutschlands Tagfalter Quiz”
- 2019 Session chair “Macroecology and Biogeography: Understanding generalities that shape the phylogenetic, functional and taxonomic diversity on Earth” Annual meeting of the GfÖ in Münster
- 2019 Co-organizer of the DO-G 2019 in Marburg
- 2016 Co-organizer of the GfÖ 2016 in Marburg
- since 2015 Management of the GdO website
- since 2014 Reviewer for various peer-review journals (see [publons.com](http://publons.com))

### IT-Skills

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- Operating systems Windows, Unix
- GIS QGIS, SAGA, ArcGIS
- Programming R, Python, command line, html

**References** (written assessments will be send by the references upon request)

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Prof. Dr. Roland Brandl	Ecology - Animal Ecology, Philipps-University Marburg. Tel.: +49 151 40741600, Email: brandlr@mail.uni-marburg.de
Prof. Dr. Seth Bybee	Department of Biology, Brigham Young University. Tel.: +1 8014223152, Email: Seth.Bybee@gmail.com
Prof. Dr. Walter Jetz	Ecology & Evolutionary Biology, Yale University. Tel.: +1 858 5312029, Email: walter.jetz@yale.edu

## List of publications

### Peer-review articles (accepted)

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- Heidrich L., Friess N., **Pinkert S.**, Bässler C., Hacker H.H., Roth N., Brandl R. & Müller J. (in press). Noctuid and geometrid moth assemblages show contrasting elevational gradients in body size and color lightness. *Ecography*.
- Pinkert S.**, Friess N., Zeuss D., Gossner M.M., Brandl R. & Brunzel S. (2020). Mobility costs and energy uptake mediate the effects of morphological traits on species' distribution and abundance. *Ecology* 101: e03121. DOI: [10.1002/ecy.3121](https://doi.org/10.1002/ecy.3121)
- Pinkert S.**, Zeuss D., Dijkstra K.-D. B., Kipping J., Clausnitzer V., Brunzel S. & Brandl R. (2020) Climate-diversity relationships underlying cross-taxon diversity of the Africa fauna and their implications for conservation. *Diversity and Distributions* 26: 1330–1342. DOI: [10.1111/ddi.13134](https://doi.org/10.1111/ddi.13134)
- Franke S., Brandl R., Heibl C., Mattivi A., Müller J., **Pinkert S.** & Thorn S. (2020) Predicting regional hotspots of phylogenetic diversity across multiple species groups. *Diversity and Distributions* 26: 1305–1314. DOI: [10.1111/ddi.13125](https://doi.org/10.1111/ddi.13125)
- Acquah-Lamprey D., Brändle M., Brandl R. & **Pinkert S.** (2020) Temperature-driven colour lightness and body size variation scale to local assemblages of European Odonata but are modified by propensity for dispersal. *Ecology and Evolution* 10: 8936–8948. DOI: [10.1002/ece3.6596](https://doi.org/10.1002/ece3.6596)
- Hemp C., Scherer C., Brandl R. & **Pinkert S.** (2020). The origin of the endemic African grasshopper family Lentulidae (Orthoptera: Acridoidea) and its climate-induced diversification. *Journal of Biogeography* 47: 1805–1815. DOI: [10.1111/jbi.13880](https://doi.org/10.1111/jbi.13880)
- Leitão P.J., Andrew C.J., Engelhardt E.K., Graham C.H., Martinez C., Mimet A., **Pinkert S.**, Schröder B., Voskamp A., Hof C. & Fritz S.A. (2020). Macroecology as a hub between research disciplines: Opportunities, challenges and possible ways forward. *Journal of Biogeography* 47: 13–15. DOI: [10.1111/jbi.13751](https://doi.org/10.1111/jbi.13751)
- Stelbrink P., **Pinkert S.**, Brunzel S., Kerr J., Wheat C.W., Brandl R. & Zeuss D. (2019). Colour lightness of butterfly assemblages across North America and Europe. *Nature Scientific Reports* 9, DOI: [10.1038/s41598-018-36761-x](https://doi.org/10.1038/s41598-018-36761-x)
- Pinkert S.**, Dijkstra K.-D.B., Zeuss D., Reudenbach C., Brandl R. & Hof C. (2018). Evolutionary processes, dispersal limitation and climatic history shape current diversity patterns of European dragonflies. *Ecography* 41: 795–804. DOI: [10.1111/ecog.03137](https://doi.org/10.1111/ecog.03137)
- Pinkert S.** and Zeuss D. (2018). Thermal biology: Melanin-based energy harvesting across the tree of life. *Current Biology* 28: 884–887. DOI: [10.1016/j.cub.2018.07.026](https://doi.org/10.1016/j.cub.2018.07.026)
- Wang Y., Lehnert L., Holzapfel M., Schultz R., Heberling G., Görzen E., Meyer H., Seeber E., **Pinkert S.**, Ritz M., Ansorge H., Bendix J., Seifert B., Miehe G., Long R., Yang Y. & Wesche K. (2018). Multiple indicators yield diverging results on grazing degradation and climate controls across Tibetan pastures. *Ecological Indicators* 93: 1199–1208. DOI: [10.1016/j.ecolind.2018.06.021](https://doi.org/10.1016/j.ecolind.2018.06.021)
- Dormann, C., Borowski M., Dehling M.D., Hartig F., Lischke H., Moretti M., Pagel J., **Pinkert S.**, Schleuning M., Schmidt S.S., Sheppard C., Steinbauer M.J., Zeuss D. & Kraan C. (2018). Biotic interactions in species distribution modelling: Eleven questions to guide interpretation and avoid false conclusions. *Global Ecology and Biogeography* 27: 1004–1016. DOI: [10.1111/geb.12759](https://doi.org/10.1111/geb.12759)

**Pinkert S.**, Brandl R. & Zeuss D. (2017). „Colour lightness of dragonfly assemblages across North America and Europe“. *Ecography* 40: 1110–1117. DOI: [10.1111/ecog.02578](https://doi.org/10.1111/ecog.02578)

**Pinkert S.**, Nel A. & Di-Ying H. (2017). A new hawkler dragonfly from the Middle Jurassic of China (Odonata: Aeshnoptera). *Comptes Rendus Palevol* 16: 378–381. DOI: [10.1016/j.crpv.2017.01.006](https://doi.org/10.1016/j.crpv.2017.01.006)

**Pinkert S.**, Bechly G. & Nel A. (2017). First record of hawkler dragonflies from Eocene Baltic amber (Odonata: Anisoptera: Gomphaeschnidae). *Zootaxa* 4272: 263–275. DOI: [10.11646/zootaxa.4272.2.7](https://doi.org/10.11646/zootaxa.4272.2.7)

### Book chapters

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Lead author of the chapter ‘Functional traits and extinction risk’ in *Dragonflies & Damselflies: Model Organisms for Ecological and Evolutionary Research*, 2nd ed. (in prep., Editors: Córdoba-Aguilar, A., Beatty, C. D., Bried, J. T. & Suárez-Tovar C. M.)

Co-author of the chapter ‘Biological responses to climate change in Odonata’ in *Dragonflies & Damselflies: Model Organisms for Ecological and Evolutionary Research*, 2nd ed. (in prep., Editors: Córdoba-Aguilar, A., Beatty, C. D., Bried, J. T. & Suárez-Tovar C. M.)

### Conference talks

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2021	Biodiversity Movement and Global Change Conference, Yale (New Haven) & MPI for Ornithology (Konstanz)
2019	GfÖ Annual meeting, University Münster Annual meeting on “European Butterflies and Moths”, UfZ Leipzig
2018	GfÖ Annual meeting of the macroecology specialist group, WSL Zürich
2017	GfÖ Annual meeting of the macroecology specialist group, University Vienna Geobiodiversity Conference, Senckenberg Biodiversity and Climate Research Center and Natural History Museum Frankfurt (Main) International Congress of Odonatology (ICO), Clare College Cambridge
2016	GfÖ Annual meeting, Philipps-University Marburg

### Teaching experience

#### Courses (contributions)

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2017-2019	2 × Courses in Animal Ecology (University of Applied Sciences Erfurt, M.Sc., 1.5 SWS) – Functions & Patterns of Biodiversity, Basics of Biogeography
2017-2019	2 × Excursions on Biotope Types (University of Applied Sciences Erfurt, M.Sc., 1.5 SWS)
2014	1 × Advanced course in Macroecology (Philipps-University Marburg, B.Sc., 2 SWS) 1 × Course in Habitat Ecology (Philipps-University Marburg, B.Sc., 2 SWS)

#### Supervised theses

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since 2020	PhD Thesis of Ricarda Laumeier: “Functional ecology of European moths”
since 2019	PhD Thesis of Daniel Acquah-Lamprey: “Diversity and conservation of African dragonfly species” PhD Thesis of Laura Mähn: “Functional–phylogenetic diversity of European and African dragonflies”
2021	M.Sc. Thesis of Lena Krug: “Drivers of the global diversity of burrowing mammals” M.Sc. Thesis Rebekka Reinhard: “Biogeography of the South-East Asian Islands”

	B.Sc. Thesis of Frederick Grüner: "Colour Variation of North American and European Amphibians"
2020	M.Sc. Thesis of Ricarda Laumeier: "Functional ecology of amphibian assemblages across Africa"
	B.Sc. Thesis of Carolin Schlarb: "Historical drivers of the phylodiversity of the mammals of the world"
	B.Sc. Thesis of Jana Schneider: "Morphological determinants of the phenology of butterflies and dragonflies"
2019	M.Sc. Thesis of Chen Yuchen: "Trade-offs between body size and colour lightness in insects"
	B.Sc. Thesis of Carolin Herbig: "Classifying energy uptake and allocation strategies of butterflies based on field observations"
	B.Sc. Thesis of David Langenohl: "Revisiting Bergmann's and Allen's rule for the birds of the world"
	B.Sc. Thesis of Rachel Schülke: "Contrasting strategies of thermoregulation in African and European dragonflies"
2018	B.Sc. Thesis of Ricarda Laumeier: "Geographical distribution of colour fullness and colour lightness in European leaf beetles"
2017	B.Sc. Thesis of Roxane Papawassiliou "Ancestral trait reconstruction of the papilionid butterflies of the world"

## ***Funding and awards***

### **Acquired third-party funding**

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2018	"Functional-phylogenetic diversity in European and African freshwater systems" (DFG, <a href="#">Projektnummer: 409487552</a> ) 250,675 €
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### **Awards**

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Philipps-University Marburg	Junior researcher fellowship: 12,000.00 €
GdO	Young Systematics travel awards 500.00 €
DEST	Distributed European School of Taxonomists Award 250.00 €
E.O. Wilson Foundation	Postdoctoral fellowship \$108,000.00
A. v. Humboldt Foundation	Feodor-Lynen Postdoctoral fellowship 54,000.00 €