

# Curriculum Vitae

Dr. rer. nat. Florian D. Schneider

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## Contact details

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## Akademic vita

May '18 – present: **Researcher** at ISOE Institute for Social-ecological Research in Frankfurt, Germany

- Research on Biodiversity Valuation and Biodiversity in the Anthropocene
- Dialogue workshops on insect decline in agricultural landscapes
- Member of ISOE research group Biodiversity and People, associate of Senckenberg Biodiversity and Climate Research Center (SBIK-F)

January '18 – present: **Freelance biologist** working as scientific advisor, writer, programmer, lecturer

- Development of exchange format for ecological trait data; Development of software tools (for BExIS, University Jena)
- Advisor on ecosystem services and biodiversity, science-policy and transdisciplinary communication
- Teaching in computational science and advanced visualisation using R statistical software

December '17 – July '18: **Research associate** at Technische Universität Darmstadt, Institute of Linguistics and Literary Studies, Prof. Dr. Nina Janich. Project "Bye, bye, Biene!" ([DFG #389692661](#))

- Scientific advisor

*December '15 – November '17:* **Scientific secretary of the DFG Senate Commission for Biodiversity Research**, PostDoc position at Senckenberg Biodiversity and Climate - Research Center (BiK-F), Frankfurt

- Coordinating [strategic committee of DFG](#); Communication with DFG officers and members of the commission, secretaries of the DFG senate commissions and other initiatives of biodiversity research in Germany; assisting the chair of the senate commission, Prof. Dr. Markus Fischer.
- Associated to biodiversity synthesis research within the core synthesis project of the [Biodiversity Exploratories](#).

*February '13 – August '15:* **PostDoc** at Institut des Sciences de l'Evolution (ISEM), Université Montpellier, CNRS, IRD, France, at the BioDlCée Lab with [Dr. Sonia Kéfi](#)

- Developing models of effects of livestock grazing on spatial structure and resilience of vegetation cover in an EU-funded, interdisciplinary project on [Catastrophic Shifts in Drylands \(CASCADE\)](#).
- Co-supervision of research (Master-theses and PhD thesis on spatial models of vegetation structure)

*March '09 – November '12:* **PhD thesis** at Technische Universität Darmstadt (GER), group of Dr. Ulrich Brose (Ecological Networks).

- passed with 'distinction' (date: 30.11.2012)
- Thesis: 'Predator diversity and ecosystem functioning: An allometric approach'
- Funded by a PhD-fellowship of Deutsche Bundesstiftung Umwelt

*October '02 – January '09:* **Diploma in Biology** at Technische Universität Darmstadt (GER)

- passed with result 'very good'
- Diploma thesis: 'Effects of predator diversity and intra-guild predation on ecosystem function'
- Main subjects: Ecology, Environmental Science, and Botany

### *Other work experience*

August '15 – October '15: **Scientific Assistant** at Technische Universität Darmstadt, for the 'EcoNetworks' lab of Prof. Dr. Nico Blüthgen.

- Coaching in quantitative statistics, computational methods and programming in R

December '07 – December '08: **Assistant Coordinator** at Center for Interdisciplinary Study Programs at Technische Universität Darmstadt, for the study program 'Umweltwissenschaften' (Environmental Science).

- Coordination of interdisciplinary seminars; Tutoring
- Promotion of the study program via print media and websites

### *Grants*

2012 two-year **PostDoc fellowship** by DAAD, for a project entitled 'Disentangling identity effects in consumer communities: an integrative approach on synthetic composition experiments' at University of Zürich with Owen Petchey (I declined in favour of the position in Montpellier, France)

2009 three-year **PhD fellowship**, Promotionsstipendium by Deutsche Bundesstiftung Umwelt ([www.DBU.de](http://www.DBU.de); AZ 20008/995)

## Teaching experience

### Co-supervision of PhD and Master projects:

- 2014–2016 Alain Danet, PhD at ISEM (Université Montpellier, CNRS, IRD) 'Facilitation et fonctionnement des milieux arides' (thesis committee member)
- 2013–2014 Alain Danet, Master thesis at ISEM (Université Montpellier, CNRS, IRD) entitled 'Les transitions catastrophiques dans les écosystèmes'
- 2013–2014 Marina Rillo, Master thesis for Erasmus Mundus Master Programme in Evolutionary Biology at ISEM (Université Montpellier, CNRS, IRD), 'Facilitation and the evolution of plant trait-syndromes in the Mediterranean basin'
- 2011–2012 Malte Jochum, Diplomarbeit at Georg-August-Universität Göttingen, 'Bottom-up versus top-down control in a marine benthic food web'
- 2010–2011 Thomas Schimmer, Diplomarbeit at Technische Universität Darmstadt, 'Körpermassenabhängige Funktionelle Reaktion von *Lithobius* spec. (Chilopoda: Lithobiidae) auf *Acheta domesticus* (Insecta: Gryllidae)'
- 2010–2011 Anna Schmehl, State Examination at Technische Universität Darmstadt, 'Körpermassenabhängige funktionelle Reaktion von Steinläufern auf Schimmelkäferlarven'

### Other teaching:

- Summer 2019 & 2020 Seminar 'Biodiversität und Gesellschaft' at Technische Universität Darmstadt, within the interdisciplinary study programmes
- March 2018 Workshop on 'Statistical plotting and data handling in R' for Biodiversity Exploratories Project (Frankfurt) (20 participants)
- June 2016 Workshop with Diana Bowler on 'Code sharing: Version control with git and GitHub' at BiK-F (Frankfurt) (20 participants)
- September 2015 Workshop on 'Advanced R programming' at Technische Universität Darmstadt (5 participants)
- June 2015 Workshop on 'R basics' at Technische Universität Darmstadt (12 participants)
- December 2014 Workshop on 'Computational science: version control with git' at ISEM (Université Montpellier, CNRS, IRD) (10 participants)
- July 2009 Experimentalpraktikum 'Populationsökologie' at Technische Universität Darmstadt (15 students)
- June 2009 Ecological field excursions in practical module of the interdisciplinary study program 'Environmental Sciences' at Technische Universität Darmstadt. (24 participants)

- *December 2007 to August 2008* Tutor in interdisciplinary student courses (project manager and ecology expert), within the interdisciplinary study programme 'Environmental Sciences' (CISP), Technische Universität Darmstadt. (30 participants)

### *Collaborations*

- **DINA Project**
- **Ecological Trait-data Standard**, a standard terminology for trait-data. Collaborators: Caterina Penone (Uni Bern), Nadja Simons (TU Darmstadt), Andreas Ostrowski & Birgitta König-Ries (Uni Jena), Malte Jochum (iDiv), Pete Manning & Gaetane LeProvost (Senckenberg BiK-F), Martin Gossner (WSL Birmersdorf, Switzerland)
- **Bye, bye, Biene**, contextual discourse analysis of conflict-laden environmental topics. Collaborators: Nina Janich and Niklas Simon (TU Darmstadt)
- **Open Traits Network** on development of tools and vocabularies for the handling of distributed, open-access trait-data. Main collaborators: Brian Enquist, Rachael Gallagher and Brian Maitner (University of Arizona), Joshua Madin (University of Hawaii Manoa), Will Pearse (Utah State university), Jens Kattge (University of Jena) and others
- **Evolution of Plant Trait Syndromes in the Mediterranean Climate**, modelling study. Collaborators: Sonia Kéfi (CNRS Montpellier), Marina Rillo (The Natural History Museum, London)
- **Biodiversity Exploratories**, core synthesis project. within DFG funded priority programme – Main Collaborators: Pete Manning (Senckenberg BiK-F, Frankfurt), Eric Allan (University of Bern), Nico Blüthgen (TU Darmstadt), Martin Gossner (WSL Birmersdorf, Switzerland), Nadja Simons (TU Munich), Runa Boeddinghaus and Ellen Kandeler (University Hohenheim), Thomas Nauss (Uni Marburg)

### *concluded collaborations:*

- **Indicators of regime shifts in ecological systems with spatially heterogeneous stressors**. Funded by IFCAM – Main collaborators collaboration with Sonia Kéfi (CNRS Montpellier), Vishwesh Guttal (Indian Institute of Science Bangalore)
- **CASCADE Project** on Catastrophic shifts in drylands. EU FP7 funded consortium. **Workpackage 6 - Improve realism of dryland models** – Main Collaborators: Sonia Kéfi (CNRS Montpellier), Max Rietkerk and Mara Baudena (Utrecht University), Peter de Ruiter (University of Amsterdam), Susanna Bautista (University of Alicante), **Workpackage 8 - Scenario analyses of upscaling preventive and restorative measures** – Main Collaborators: Luuk Fleskens and Diana Sietz (University of Wageningen)

*Other academic activities*

I have been acting as reviewer for the following journals: Ecology Letters, Proceedings of the Royal Society B, Journal of Animal Ecology, Ecosphere, Acta Oecologica

I am a member of the Gesellschaft für Ökologie (GfÖ) and the British Ecological Society (BES).