

Curriculum Vitae

Larissa Nowak

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Education

2016 - present

PhD in Ecology

Senckenberg Biodiversity and Climate Research Centre (SBIK - F),
Goethe University, Frankfurt am Main, Germany

Dissertation title: 'Impacts of climate change on species interaction networks'

Project includes:

- Projecting consequences of climate change for the functional diversity of fleshy-fruited plants and frugivorous birds
- Assessing relationships of response traits related to species' sensitivity to climate change and their adaptive capacity
- Trait-based quantifications of long distance dispersal of fleshy-fruited plants under climate change

Supervisor: PD Dr Matthias Schleuning, Prof Dr Daniel Kisling

2013 - 2016

M.Sc. Ecology and Evolution

Goethe University, Frankfurt am Main, Germany

Date of graduation: 10 February 2016

Grade: 1.2

Courses included:

- Community Ecology, Macroecology and Conservation
- Parasitology
- Molecular Evolution and Population Genetics
- Diversity and Evolution of Plants
- Mycology

Thesis title: 'Global patterns in the functional diversity of frugivorous birds in seed-dispersal networks'

Supervisor: PD Dr Matthias Schleuning

Grade: 1.0

2009 - 2013

B.Sc. Environmental Science and International Forestry

Albert-Ludwig University, Freiburg, Germany

Date of graduation: 12 February 2013

Grade: 2.0

Courses included:

- Biology and Ecology
- Wildlife Ecology and Management
- Soil Science
- Material Cycles in Ecosystems
- Environmental Modelling
- Forest Ecology
- Fire Ecology and Management
- Forest Management

Thesis title: '*Sensitivitätsanalyse: Der Einfluss der Waldkalkung auf das Grüne Besenmoos (Dicranum viride)*'

(Sensitivity assessment: 'The influence of forest liming on *Dicranum viride*')

Supervisor: Prof Dr Albert Reif

Grade: 2.0

Additional courses

2019 Species Distribution Modelling

2017 Network Analysis for Ecologists

Collaboration and experience abroad

2019 Research stay in the Manú National Park, Peru

2017 Research stay at the University of Amsterdam, Netherlands
working group of Prof Dr Daniel Kissling

2016 Research stay at the Zoological Research Museum Alexander Koenig in Bonn,
Germany, collection of bird skins, curator Dr Till Töpfer

- Taking morphological measurements on museum bird specimens

2016 Research stay at the Natural History Museum in Copenhagen, Denmark,
collection of bird skins, curator Prof Dr Jon Fjeldsa

- Taking morphological measurements on museum bird specimens

Internships and additional professional experience

- 2018 - present **Assistance in the statistic course of the Master's module Community Ecology, Macroecology and Conservation**
- Generalized linear models
 - Linear mixed effect models
 - Multivariate statistics
- 2018 - present **Organization of monthly meetings of the "Biotic interactions" research group at Senckenberg Biodiversity and Climate Research Centre, Frankfurt am Main, Germany**
- 2015 - 2016 **Research assistance at Senckenberg Biodiversity and Climate Research Centre, Frankfurt am Main, Germany**
- Assistance in the organization of the Master's module Community Ecology, Macroecology and Conservation
 - Guiding students with the discussion of scientific publications
 - Data inspection (hummingbird-Protea interactions)
 - Literature review (European oaks)
 - Data management (global database of plant-frugivore networks, plant and frugivore traits)
- 2012 **Internship at *Forstliche Versuchs- und Forschungsanstalt Baden-Württemberg* (forestry research institute), section forest ecology, Freiburg, Germany**
- Assistance in Natura 2000 interests (FFH-Management plans, Red List species)
 - Supervision of information stand '*Alt- und Totholzkonzept Baden-Württemberg*' (Matured forest and deadwood concept) at KFW-Tagung Baden-Württemberg
 - Attendance at workshop '*Waldnaturschutzstrategie*' (Forest conservation strategy)
 - Assistance in the section Forest Plant Breeding and Genetics
 - Collaboration in scientific project on the sensitivity of *Dicranum viride* to forest liming
 - Assistance in collecting movement data of wild cats and roe deer
 - Assistance in bark beetle monitoring

Presentations

- 2019 Presentation at Universidad Nacional de San Antonio Abad del Cusco, Peru in collaboration with CREES

 ‘Projecting consequences of global warming for the functional diversity of fleshy-fruited plants and frugivorous birds along a tropical elevational gradient’ – talk
- 2019 SIG Biogeography, Frankfurt am Main, Germany

 ‘A multi-trait assessment of species' vulnerability to climate change along a tropical elevational gradient’ – poster presentation
- 2019 9th Biennial Conference of the International Biogeography Society, Malaga, Spain

 ‘A multi-trait assessment of species' vulnerability to climate change along a tropical elevational gradient’ – poster presentation
- 2017 Ecology Across Borders: Joint Annual Meeting 2017, Gent, Belgium

 ‘Functional (mis)match of fleshy-fruited plants and frugivorous birds under climate change?’ – poster presentation

Publications

- **Nowak, L.**, Kissling, W. D., Bender, I. M. A., Dehling, D. M., Töpfer, T., Böhning-Gaese, K., & Schleuning, M. (2019). Projecting consequences of global warming for the functional diversity of fleshy-fruited plants and frugivorous birds along a tropical elevational gradient. *Diversity and Distributions*, 25, 1362-1374.
- Schleuning, M., Neuschulz, E. L., Albrecht, J., Bender, I. M., Bowler, D. E., Dehling, D. M., Fritz, S. A., Hof, C., Mueller, T., **Nowak, L.**, Sorensen, M. C., Böhning-Gaese, K., & Kissling, W. D. (2020). Trait-based assessments of climate-change impacts on interacting species. *Trends in Ecology & Evolution*, 35, 319-328.
- Bender, I. M. A., Kissling, W. D., Böhning-Gaese, K., Hensen I., Kühn, I., **Nowak, L.**, Töpfer, T., Wiegand, T., Dehling, D. M., & Schleuning, M. (2019). Projected impacts of climate change on functional diversity of frugivorous birds along a tropical elevational gradient. *Scientific Reports*, 9, 17708.
- Bender, I. M. A., Kissling, W. D., Blendinger, P. G., Böhning-Gaese, K., Hensen I., Kühn, I., Muñoz, M. C., Neuschulz, E. L., **Nowak, L.**, Quitián, M., Saavedra, F., Santillán, V., Töpfer, T., Wiegand, T., Dehling, D. M., & Schleuning, M. (2018). Morphological trait matching shapes plant–frugivore networks across the Andes. *Ecography*, 41, 1910-1919.
- Dugger, P. J., Blendinger, P. G., Böhning-Gaese, K., Chama, L., Correia, M., Dehling, D. M., Emer, C., Farwig, N., Fricke E. C., Galetti, M., García, D., Grass, I., Heleno, R., Jacomassa, F. A. F., Moraes, S., Moran, Catherine, Muñoz, M. C., Neuschulz, E. L., **Nowak, L.**, Piratelli, A., Pizo, M. A., Quitián, M., Rogers, H. S., Ruggera, R. A., Saavedra, F., Sánchez, M. S., Sánchez, R., Santillán, V., Schabo, D. G., Ribeiro da Silva, F., Timóteo, S., Traveset, A., Vollstädt, M. G. R., & Schleuning, M. (2018). Seed-dispersal networks are more specialized in the Neotropics than in the Afrotropics. *Global Ecology and Biogeography*, 28, 248-261.

Language and communication skills

- German: native speaker
- English: excellent command
- Excellent written and oral scientific communication skills (German and English)

Software skills

- Proficient with Windows 7 and 10, MS Office, and R
- Working knowledge in Mac OS, and Adobe Illustrator

Additional skills

- Excellent statistical and modelling skills using R