

**Bernd Lenzner B.Sc. M.Sc. PhD**

Bioinvasions, Global Change, Macroecology Group

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My main research interests are in macroecology, macroevolution, island biogeography and biodiversity change in the Anthropocene. In particular my focus on understanding spatio-temporal dynamics of community composition and historic and future drivers of alien species distribution. I am also interested in working at the science-policy interface being involved in an IPBES assessments and working groups, working on biodiversity indicators and contributing to the discourse around the CBD post2020 Biodiversity targets.

***Scientific Employment & Education***

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| 2019-present | <b>Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)</b> <ul style="list-style-type: none"><li>• Invasive Alien Species assessment - Fellow</li><li>• Scenarios and models assessment -Liaison expert</li><li>• Workshop on modelling Nature Future Scenarios - Liaison expert</li></ul>  |
| 2018-present | <b>Postdoctoral researcher at the University of Vienna, Austria</b> <ul style="list-style-type: none"><li>• Bioinvasions, Global Change, Macroecology Group</li><li>• Department of Botany and Biodiversity Research<ul style="list-style-type: none"><li>○ Project – Global Naturalized Alien Floras (GloNAF) database</li><li>○ Project – Alien Scenarios</li><li>○ Project - ReSurveyEurope</li></ul></li></ul> |
| 2015-2018    | <b>PhD in Biology at University of Vienna, Austria (conferring date: 27.11.2018)</b> <ul style="list-style-type: none"><li>• Department of Botany and Biodiversity Research</li><li>• Thesis: “Investigating global patterns and processes of non-native alien plant diversity and assembly” (1.0 with distinction)</li><li>• Supervisors: Mag. Dr. Franz Essl; Prof. Mag. Dr. Stefan Dullinger</li></ul>          |
| 2012-2015    | <b>MSc in Geoecology at the University of Bayreuth, Germany</b> <ul style="list-style-type: none"><li>• Major in Landscape Ecology</li><li>• Thesis: “Ecological implications of flower color change in fertilized and unfertilized grassland over the past 150 years” (1.0)</li><li>• Supervisors: Prof. Dr. Carl Beierkuhnlein, Prof. Dr. Manuel Steinbauer, Prof. Dr. Andreas Schweiger</li></ul>               |
| 2008-2012    | <b>BSc in Geoecology at the University of Bayreuth, Germany</b> <ul style="list-style-type: none"><li>• Major in Landscape Ecology</li><li>• Thesis: “Plant differentiation on oceanic archipelagos in dependence of island age” (1.0)</li><li>• Supervisors: Prof. Dr. Carl Beierkuhnlein, Prof. Dr. Manuel Steinbauer</li></ul>  |

## ***Project Funding, Awards and Scholarships***

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### *Awards, Scholarships & travel funding*

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| 2021 | <b>Young Investigator Award</b> <ul style="list-style-type: none"><li>• Faculty of Life Sciences, University of Vienna</li><li>• Honouring young postdoctoral scientists publishing in the top journals of their field</li><li>• 7000€ award money</li></ul> |
| 2019 | <b>Award of Excellence</b> <ul style="list-style-type: none"><li>• Federal Ministry of Education, Science and Research of Austria</li><li>• Honoring the 40 best dissertations of the past academic year conducted in Austria.</li></ul>                     |
| 2017 | <b>IIASA – Young Scientist Summer Program</b> <ul style="list-style-type: none"><li>• <u>Funding agency</u>: German IIASA National Member – Institute for Climate Research (PIK)</li><li>• 4500€ (for 3 months) stipend</li></ul>                            |
| 2016 | <b>COST Action TD1209 – “Alien Challenge”</b> <ul style="list-style-type: none"><li>• Travel grant: 600€</li></ul>   |

### *Successful funding*

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| 2019 | <b>Alien Scenarios</b> <ul style="list-style-type: none"><li>• <u>Project manager</u>: Prof. Dr. Franz Essl</li><li>• <u>Role</u>: Co – project lead and work package lead; contribution to conceptualization and writing</li><li>• <u>Call</u>: BioScen joint call by the Belmont Forum and BiodivERsA on “Scenarios of Biodiversity and Ecosystem Services”</li><li>• <u>National Funding Agency</u>: Austrian Science Foundation (FWF)</li><li>• <u>Success rate</u>: 21 projects out of 135 full proposals</li><li>• <u>Total funding of the call</u>: &gt; 28Mio €</li></ul> |
| 2018 | <b>Global Naturalized Alien Floras database</b> <ul style="list-style-type: none"><li>• <u>Project manager</u>: Prof. Mark van Kleunen &amp; Prof. Dr. Franz Essl</li><li>• <u>Role</u>: Contributed to conceptualization and writing; explicitly mentioned as post-doctoral researcher for the project</li><li>• <u>National Funding Agency</u>: Austrian Science Foundation (FWF)</li></ul>   |

### *Ongoing proposals*

#### **Advancing the understanding of global plant invasions: building the bridge from data to drivers and biodiversity changes**

- Project manager: Prof. Mark van Kleunen & Prof. Dr. Franz Essl

- Role: Contributed to conceptualization and writing; explicitly mentioned as post-doctoral researcher for the project
- Call: Joint projects Germany, Austria, Switzerland (DACH)
- National Funding Agency: Austrian Science Foundation (FWF)

**Assessing and quantitatively incorporating biotic lag effects into biodiversity indicators (BIOLAG)**

- Project manager: Bernd Lenzner & Martin Jung (IIASA)
- Role: Co-lead and national funding partner
- Funding Agency: Austrian Science Foundation (FWF)

***Working Group and Organization Memberships***

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*Working Groups*

- InvaCost – Economic costs of biological invasions
  - <http://invacost.fr/en/about/>
- Invasions Dynamics Network (InDyNet)
  - <https://indynet.de/>
- Theory and Workflows for Alien and Invasive Species Tracking (sTWIST)
  - [https://www.idiv.de/sdiv/working\\_groups/wg\\_pool/stwist.html](https://www.idiv.de/sdiv/working_groups/wg_pool/stwist.html)
- Global Mountain Biodiversity Assessment (GMBA)
  - [http://www.gmba.unibe.ch/research/working\\_groups/endemism](http://www.gmba.unibe.ch/research/working_groups/endemism)

*Memberships*

- International Biogeography Society (IBS)
  - <https://www.biogeography.org/>
- British Ecological Society (BES)
  - <https://www.biogeography.org/>

***Peer review***

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Journals: Diversity and Distributions, Ecology and Evolution, Evolutionary Ecology, Frontiers in Biogeography, Journal of Biogeography, Journal of Ecology, Nature and People, Diversity, Bioinvasion Records, Ecography, Frontiers in Ecology and Evolution, Frontiers in Ecology and the Environment, Global Ecology and Biogeography, Journal of Environmental Management, Neobiota, Plant Ecology and Diversity

Funding agencies: Czech Science Fund

***Teaching***

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*Lectures & Practicals*

Modelling spatial and temporal dynamics of (ecological) animal and plant populations (practical; 5 ECTS)

- WS 2019/20; WS 2020/21

- Joint lecture with Dr. Johannes Wessely

Analysis of ecological data - univariate methods (lecture and practical; 5 ECTS)

- WS 2019/20; WS 2020/21; WS 2021/22
- Joint lecture with Prof. Stefan Dullinger

Klimawandel - Biodiversität, Globaler Wandel und Klimapolitik (lecture; 3ECTS)

- WS2020/21; WS 2021/22
- Joint lecture with Prof. Franz Essl

### *Bachelor & Master thesis*

Sebastian Hancock (MSc)

- Introducing the Combined Atlas Framework for large-scale web-based data visualization – The GloNAF Atlas of Plant Invasion
- Published in Methods in Ecology and Evolution - <https://doi.org/10.1111/2041-210X.13820>

Julia Konic (MSc)

- To Care or Not to Care? Which Factors Influence the Distribution of Early-Flowering Geophytes at the Vienna Central Cemetery (Austria)
- Published in Sustainability - <https://doi.org/10.3390/su13094657>

Tom Vorstenbosch (MSc)

- An uphill battle? The altitudinal distribution of alien plant species along rivers and roads in the Austrian Alps
- Published in Neobiota - <https://doi.org/10.3897/neobiota.63.55096>

Moritz Michael Adam (BSc)

- Neonatives and Climate Change – Assessing the EU 2030 Biodiversity Strategy
- Under revision in Conservation Letters

Pia Köck (BSc)

- Impact of colonial history on species composition of alien floras on islands

### ***Previous and current (main) cooperation partners***

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*\*countries indicate affiliation of host organization of the collaborators*

Carl Beierkuhnlein (GER); Celine Bellard (FRA); Ryan Blanchard (ZAF); Loretto Castillo (CZ); Jane Catford (UK); Franck Courchamp (FRA); Wayne Dawson (CZ); Christophe Diagne (FRA); Stefan Dullinger (AT); Franz Essl (AT); Suzette Flantua (NOR); Carla Garcia-Lozano (PRT); Marina Golivets (GER); Quentin Groom (BEL); Shizuka Hashimoto (JPN); Cang Hui (ZAF); Maki Ikegami (JPN); Holger Kreft (GER); Ingolf Kühn (GER); Guillaume Latombe (UK); Brian Leung (CAN); Susana Magallon (MEX); Melodie McGeoch (AUS); Laura Meyerson (USA); Dietmar Moser (AT); Martin Nuñez (ARG); Aníbal Pauchard (CHL); Cristian Perez Grandos (PRT); Jan Pergl (CZ); Garry Peterson (SWE); Robin Pouteau (FRA); Petr Pyšek (CZ); Francois Rigal (FRA); Nuría Roura-Pascual (PRT); Helen Roy (UK); Hanieh Saeedi (GER); Anna Schertler (AT); Hanno Seebens (GER); Kostas Triantis (GRE); Elena Tricarico (ITA); Anna Turbelin (FRA); Mark van Kleunen (GER); Joana Vicente (PRT); Patrick Weigelt (GER); John Wilson (ZAF); Marten Winter (GER); Qiang Yang (GER), among others

### ***Invited Talks, Presentations and Posters***

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#### *Invited talks*

- **Lenzner B**, Essl F (January 2021) A macroscopic view on biological invasions – past, present, future. *Department of Ecology and Evolution Seminar, University of Lausanne, Switzerland (Invited Talk)*
- **Lenzner B** (June 2019) The macroecology of alien species and its temporal dynamics. *Colloquium of the Physical-Geography Institute, Goethe University Frankfurt am Main, Germany, (Invited Talk)*

#### *Conference talks*

- **Lenzner B**, Essl F (September 2020) The option space of future alien species impacts: an expert based assessment, *11th International Conference on Biological Invasions - The Human Role in Biological Invasions: a case of Dr Jekyll and Mr Hyde? Vodice, Croatia (Oral presentation)*
- **Lenzner B**, Essl F (March 2020) The option space of future alien species impacts: an expert based assessment, *Macroecology of the Anthropocene, Annual Meeting of the Specialist Group on Macroecology of the Gesellschaft für Ökologie, Konstanz, Germany (Oral presentation)*
- **Lenzner B**, Essl F (July 2019) Towards Island-Specific Scenarios of Biological Invasions in the 21st century, *3rd International Conference on Island Ecology, Evolution and Conservation, St. Denis, La Réunion 2019 (Oral presentation)*
- **Lenzner B**, Moser, D, GloNAF core team, Capinha C, Cassey, P, Economo E, García-Díaz P, Guénard B, Maurel, N, Seebens H, Stein, A, Essl, F (January 2019) Remoteness promotes biological invasions on islands worldwide, *9th Biennial Conference of the International Biogeography Society, Málaga, Spain (Oral presentation)*
- **Lenzner B**, Leclerc D, Franklin O, Seebens H, Roura-Pascual N, Obersteiner M, Dullinger S, Essl F (January 2019) A framework for global 21<sup>st</sup> century scenarios and models of biological invasions, *9th Biennial Conference of the International Biogeography Society, Málaga, Spain (Poster)*

- **Lenzner B**, Leclerc D, Franklin O, Seebens H, Roura-Pascual N, Obersteiner M, Dullinger S, Essl F (September 2018) A framework for global 21<sup>st</sup> century scenarios and models of biological invasions, *48<sup>th</sup> Annual Meeting of the Ecological Society of Germany, Austria and Switzerland, Vienna, Austria (Oral presentation)*
- **Lenzner B**, Leclerc D, Franklin O, Seebens H, Roura-Pascual N, Obersteiner M, Dullinger S, Essl F (September 2018) A framework for global 21<sup>st</sup> century scenarios and models of biological invasions, *Neobiota Conference, Dun Laoghaire, Dublin, Ireland (Poster)*
- **Lenzner B**, Moser, D, GloNAF core team, Capinha C, Cassey, P, Economo E, García-Díaz P, Guénard B, Maurel, N, Seebens H, Stein, A, Essl, F (September 2016) Isolation drives alien species establishment on islands, *Neobiota Conference, Vianden, Luxembourg, (Poster)*
- **Lenzner B**, Essl F, GloNAF core team, Capinha C, Guénard B, Economo E, Seebens H, Moser D (July 2016) What is the role of vacant niches for alien species establishment on isolated islands? *Island Biology Conference, Angra do Heroísmo, Terceira, Azores, (Oral presentation)*
- **Lenzner B**, Mang T, Dullinger S, Moser D, Dawson W, Kreft H, Pergl J, Pyšek P, van Kleunen M, Winter M, Weigelt P, Weber E, Seebens H, Essl F (May 2016) Spread it to the world! The global drivers of plant invasions, *Special Meeting on the Biogeography of Ecology of the International Biogeography Society, Beijing, China (Oral presentation)*
- **Lenzner B**, Steinbauer MJ, Schweiger AH, Beierkuhnlein C (February 2016) Ecological implications of flower color change in fertilized and unfertilized grassland over the past 150 years, *9th Annual Meeting of the Specialist Group on Macroecology of the Gesellschaft für Ökologie, Trier, Germany (Oral presentation)*
- **Lenzner B**, Dawson W, Dullinger S, Essl F, Kreft H, Moser D, Pergl J, Pyšek P, Seebens H, van Kleunen M, Weigelt P, Winter M (August 2015) A global assessment of the patterns and drivers for plant naturalizations *45<sup>th</sup> Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (Poster)*
- **Lenzner B**, Steinbauer MJ, Weigelt P, Kreft H, Beierkuhnlein C (January 2015) The general dynamic model of island biogeography revisited on the level of major plant families *International Biogeography Society 7th Biennial Conference, Bayreuth, Germany (Poster)*
- **Lenzner B**, Tsikliras A, Triantis KA (September 2013) Species-area-relationships in seamounts *11th FishBase Symposium, Thessaloniki, Greece (Oral presentation)*
- **Lenzner B**, Steinbauer MJ, Beierkuhnlein C (March 2013) Plant differentiation on oceanic archipelagos in dependence of island age *7th Annual Meeting of the Specialist Group on Macroecology of the Gesellschaft für Ökologie, Göttingen, Germany (Oral presentation)*
- **Lenzner B**, Steinbauer MJ, Beierkuhnlein C (September 2013) Plant differentiation on oceanic archipelagos in dependence of island age *42nd Annual Meeting on the Ecological Society of Germany, Austria and Switzerland, Lüneburg, Germany (Poster)*