

Martha Kandziora

Postdoctoral Researcher in the McTavish Lab
Department of Life and Environmental Science
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"Evolutionary botanist, who combines phylogenetic data with ecological information to understand how biodiversity is generated and maintained across space and time."

Work and Research Experience

- since 10/2017 **Postdoctoral Fellow**, *Life and Environmental Science, University of California, Merced.*
Developing a tool to automatically and rapidly update phylogenies, linking species and geographic information that can be easily used for biogeographic analyses
- 04/2016 – 07/2016 **Research Volunteer**, Mainz/Germany.
Conducting analyzes for a new research project, developing my computational skills and writing of research proposal
- 11/2015 – 03/2016 **Finishing of doctoral research related work**, Mainz/Germany.
Preparation and submission of publications, labeling of herbarium material
- 02/2013 – 10/2015 **Research assistant**, *Institute of 'Spezielle Botanik und Botanischer Garten', Johannes Gutenberg-Universität, Mainz/Germany.*
Doctoral student in the DFG-project of Dr. B. Gehrke 'Origins of the African high mountain flora: the role of past climates on establishment and diversification.'
- 05/2009 – 08/2009 **Student assistant**, *Julius Kühn-Institut, Darmstadt/Germany.*
Plant pathogen research on barley, supervised by Dr. Andreas Leclercque
- 07/2008 – 11/2008 **Student assistant**, *Institute of Ecology, Technische Universität Darmstadt, Darmstadt/Germany.*
Food-network experiments, supervised by Gregor Kalinkat

Education

- 02/2013 – 12/2015 **Dr. rer. nat (biology)**, *Institute of 'Spezielle Botanik und Botanischer Garten', Johannes Gutenberg-Universität, Mainz/Germany, 'magna cum laude'.*
Dissertation: Evolution and historical biogeography of *Senecio* (Asteraceae) with focus on the Old World
- 10/2009 – 11/2012 **Diplom Biology**, *Johannes Gutenberg-Universität, Mainz/Germany, 'very good'.*
Dissertation: Evolution of dwarf shrubs in *Alchemilla* (Rosaceae) of sub-Saharan Africa
- 10/2006 – 10/2009 **Preliminary-Diplom Biology**, *Technische Universität Darmstadt, Darmstadt/Germany, 'good'.*
- 1996 – 2005 **Abitur**, *Kooperative Gesamtschule Schwanewede, Schwanewede/Germany, '2.8'.*

Advanced Trainings

- 12/2017 **Computable evolutionary phenotype knowledge: a hands-on workshop**, *Phenoscape Knowledgebase*, Durham, North Carolina, USA, 4 days.
Connecting the database with IdigBio and developing a shiny app to display the distribution of species traits on a map
- 10/2015 **Introduction to Bioinformatics for Biosystematics**, *ForBio*, Oslo, Norway, 7 days.
Usage of Python, SQL and R for systematic research questions
- 10/2014 **Species Tree Phylogenetics**, *ForBio*, Kristineberg, Sweden, 5 days.
Species coalescent theories and assumptions; final report about paralogy assessment
- 05/2014 **Computational Molecular Evolution**, *EMBO*, Heraklion, Greece, 10 days.
Theories of dataset assembly, hypothesis testing in phylogenies and coalescent model

Grants

- 2016 **Research Fellowship**, *DFG - German Research Foundation*, Germany, Applied for two year funding to work in USA; rejected.
- 2015 **'Förderung im Rahmen der Gleichstellung'**, *Johannes Gutenberg-Universität*, Mainz/Germany, Grant for workshop attendance: *ForBio*, Norway; 200€.
- 2013 **'Förderung von aktiven Tagungsreisen im Rahmen des Speziellen Promotionskollegs'**, *Johannes Gutenberg-Universität*, Mainz/Germany, Grant for conference attendance, *AETFAT*, South Africa; 800€.

Voluntary Activities

- 08/2016 – 06/2017 **Cycling in South America**, Cycled ca. 8000 km, independently and self-supported.
Learning Spanish; <https://blubbundbla.github.io/plantmap/>
- 05/2010 – 12/2012 **Archive for African Music**, *Johannes Gutenberg-Universität*, Mainz/Germany, Volunteer; supervised by Dr. Hauke Dorsch.
Design and organization of exhibitions and music concert with other volunteers
- 11/2008 – 12/2008 **Nature Palace Foundation**, Luwule/Jandira, Uganda, Internship with a NGO that maintains a botanic garden.
Conducting interviews with locals who use traditional plant medicines; Identification of plants
- 07/2005 – 11/2005 **BERUDEP**, Belo, Cameroon, Internship with a NGO that runs different projects to eradicate poverty.
Organizing meetings and workshops as part of their conservation and agriculture projects