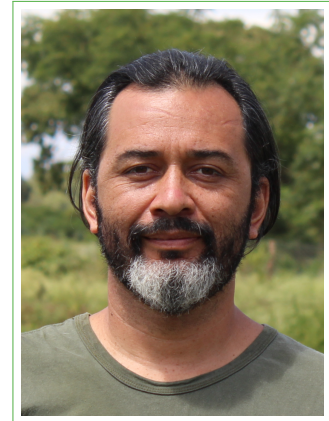


Miguel Alvarez

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Personal Details

- Birth **October, 27th 1978, Las Cabras, Chile.**
- Nationality **Chilean.**
- Marital status **Partnership, one daughter.**
- Business address **Institut für Nutzpflanzenwissenschaften und Ressourcenschutz (INRES), Pflanzenernährung, Rheinische Friedrich-Wilhelms-Universität Bonn, Karlrobert-Kreiten-Str. 13, 53115 Bonn, Deutschland.**
- Hobbies **Drawing, linocut, bouldering.**

Scientific Interests

Ecological Indicators • Vascular Plant Diversity • Vegetation-plot Databases • Wetlands Ecology .

Working Experience

- since 2018 **Research Associate, Institute of Crop Science and Resource Conservation, University of Bonn, Germany, scientific coordination in the context of the project Future Rural Africa.**
- 2013–2018 **Research Associate, Institute of Crop Science and Resource Conservation, University of Bonn, Germany, scientific coordination in the context of the projects GlobE-wetlands and RCR (Resilience, Collapse and Reorganization in social-ecological systems of African savannas).**
- 2009–2013 **Research Associate, Institute of Crop Science and Resource Conservation, University of Bonn, Germany, scientific coordination in the context of the SWEA project (Small-Wetlands in East Africa).**
- 2009 **Research Associate, Centre for Remote Sensing of Land Surfaces, University of Bonn, Germany, data analysis and modelling of land-use changes in Benin (activities in the context of the IMPETUS project).**
- 2008 **Research Assistant, Geobotany, University of Bonn, Germany, statistical data analysis.**

2006–2008 **Research Assistant**, *Geobotany, University of Freiburg, Germany*, maintenance of a database focusing on ephemeral wetland vegetation in South America.

Education and Academic Degrees

2005–2007 **PhD studies (Dr. rer. nat., summa cum laude)**, *Department of Geobotany, University of Freiburg, Germany*, Thesis: “Soil seed bank and ecology of ephemeral wetlands in Cholchol (9th Region, Chile)”, original in German.

1997–2002 **Agronomy (Agronomy Engineer)**, *Universidad Austral de Chile, Valdivia, Chile*, Thesis: “Vegetation cover and soil seed bank in two neighbouring grassland communities in the Province Osorno (10th Region, Chile)”, original in Spanish.

Grants and Awards

2011 **A.F.W. Schimper Stiftung**, *seed fellowship for field research outside of Europe (in Chilean Patagonia), Germany*.

2008 **Hans-Spemann-Preis**, *award for the PhD thesis, Dr.-Gerhard-Fritz-Stiftung*.

2004–2006 **German Academic Exchange Service (DAAD)**, *fellowship for PhD studies at the University of Freiburg, Germany*.

2005–2013 Diverse travel and education grants supported by **DAAD**, the **Otti Wilmanns Stiftung**, and the **Wissenschaftliche Gesellschaft in Freiburg im Breisgau**.

Teaching and Training

2017–2018 **Scientific Data and Relational Databases**. 2-days training workshop organized once at the British Institute of East Africa (Kenya) and once at the Addis Ababa University (Ethiopia).

2015–2018 **R and its Applications in GIS**. 1-week training workshop organized once at the University Haramaya (Ethiopia), once at Addis Ababa University (Ethiopia), and once at the University of Bonn (Germany).

2011–2015 **R and its Applications in Statistics**. 1-week training workshop organized four times at the University of Bonn and twice at the University of Freiburg.

Co-supervised Theses

currently **Kai Behn**, “*Classification, characterization and regeneration of wetland vegetation in East Africa*”, University of Bonn, PhD Thesis.

Gereon Heller, “*Invasion dynamics of woody species in Baringo and Churo, Kenya*”, University of Bonn, PhD Thesis.

Assefa Wosnie, “*Ecological assessment of pollutant effects in Lake Koka, Rift Valley, Ethiopia*”, Addis Ababa University, PhD Thesis.

Jane Macharia, “*Bio-indication of invertebrates and vascular plants in the Ewaso Narok Swamps, Kenya*”, University of Bonn, PhD Thesis.

Bernice Sainepo Mereina, “*Effects of biological invasions on land uses at Lake Baringo, Kenya*”, University of Bonn, PhD Thesis.

2011–2016 Co-supervision of **1** diploma thesis, **4** Master-theses and **2** further dissertations at the University of Bonn.

Further Skills

Databases Custodian of **CL-Dataveg** (South America) and **SWEA-Dataveg** (Eastern Africa). **Turboveg** and development of R packages **taxlist** and **vegetables**. Relational databases with **HSQLDB**, **PostgreSQL** and **PostGIS**.

Computer **R** as user and developer (packages hosted at GitHub and CRAN), **markdown**, and **L^AT_EX**. **Juice** and **QGIS**.

Languages **Spanish** (native speaker), **English** (fluent), **German** (fluent), **Italian** (basics), **Swahili** (basics).

Working Groups and Memberships

since 2016 **Freundeskreis Botanischer Gärten der Universität Bonn**.

since 2015 **Working Groups Phytosociological Nomenclature and Ecoinformatics**, *International Association of Vegetation Science*.

since 2015 **Freshwater Plant Specialist Group**, *International Union for Conservation of Nature*.

since 2014 **Naturhistorischer Verein der Rheinlande und Westfalens**.

since 2014 **Editorial Board of Phytocoenologia**.

since 2014 **East Africa Natural History Society and Friends of the Nairobi Arboretum**.

since 2011 **International Association of Vegetation Science (IAVS)**.

since 2009 **National Geographic Society**.

2009–2015 **Gesellschaft für Naturkunde in Württemberg**.

since 2008 **Reinhold-Tüxen-Gesellschaft**.

Publications

61 scientific contributions in English, Spanish and German.

2 books and **2** book chapters.

57 articles in journals.

Selected articles Behn K, Becker M, Burghof S, Möselers BM, Willy DK, **Alvarez M**, 2018. Using vegetation attributes to rapidly assess degradation of East African wetlands. *Ecological Indicators* 89: 250–259. [10.1016/j.ecolind.2018.02.017](https://doi.org/10.1016/j.ecolind.2018.02.017)

Alvarez M, Luebert F, 2018. The **taxlist** package: managing plant taxonomic lists in R. *Biodiversity Data Journal* 6: e23635. [10.3897/bdj.6.e23635](https://doi.org/10.3897/bdj.6.e23635)

Alvarez M, 2017. Classification of aquatic and semi-aquatic vegetation in two East African sites: Cocktail definitions and syntaxonomy. *Phytocoenologia* 47: 345–364. [10.1127/phyto/2017/0078](https://doi.org/10.1127/phyto/2017/0078)

Scherer L, Curran M, **Alvarez M**, 2017. Expanding Kenya's protected areas under the Convention on Biological Diversity to maximize coverage of plant diversity. *Conservation Biology* 31: 302–310. [10.1111/cobi.12792](https://doi.org/10.1111/cobi.12792)

Beuel S, **Alvarez M**, Amler E, Behn K, Kotze DC, Kreye C, Leemhuis C, Wagner K, Willy DK, Ziegler S, Becker M, 2016. A rapid assessment of anthropogenic disturbances in East African wetlands. *Ecological Indicators* 67: 684–692. [10.1016/j.ecolind.2016.03.034](https://doi.org/10.1016/j.ecolind.2016.03.034)

Congress Contributions (oral presentations)

- 2018 **Alvarez M**, Fisher E, Möselers BM, San Martín, Ramírez C, San Martín C. *Vegetation of Magellanic seasonal wetlands: How much do we really know about them?*. 3th Symposium of the A.F.W. Schimper-Stiftung, Illmitz, Austria.
- 2017 **Alvarez M**, Deil U, Chytrý M. *Vegetation units of ephemeral wetlands in extra- and oro-tropical South America: Distribution according to predictive models*. 25th International Conference on Phytosociology. Santiago de Compostela, Spain.
- 2017 **Alvarez M**, Leemhuis C, Gabiri G, Behn K, Beuel S. *Hydrological gradients in and land uses in a sub-Saharan floodplain: the potential use of indicator plants for bio-monitoring*. European Conference of Tropical Ecology. Brussels, Belgium.
- Alvarez**, Choge S, Heller G, Malombe I, Matheka K, Becker M. *Invasion by *Prosopis juliflora* in the Lake Baringo basin (Kenya): competition ability or opportunity?* 21st AETFAT Congress, Nairobi, Kenya.
- 2016 **Alvarez M**, Behn K, Malombe I, Curran M, Scherer L. *Vegetation of East African wetlands: human impact and resulting changes in species composition*. 15th Meeting on Vegetation Databases, University of Potsdam, Germany.
- 2015 **Alvarez M**, Deil U. *Occurrence and distribution of ephemeral wetland communities in South America: completing vegetation data with herbarium records*. International Symposium of Mediterranean Temporary Ponds, Università degli Studi di Sassari, Sardinia, Italy.

Bonn, October 11, 2018