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- 0170/5221189
- FranzKrah
- franzkrah.github.io
- drkrah

Software

- rGUIDANCE
- rUSDA
- rMyCoPortal
- rSymbiota

Published in

- · Nature Communications
- BMC Evolutionary Biology
- Journal of Ecology
- · Biodiversity Data Journal
- · Journal of Open Source Software

Languages

Germany

English

French

Bengali



Interests













Dr. Franz-Sebastian Krah

Data Science, Sustainability and Ecology

Currently

11/2019 **DFGE**

Research & Development Manager

Artificial Intelligence

Education

2015 - 2019 Dr. rer. nat. in Ecology

Passed 'summa cum laude'

M.Sc. Biology 2013 - 2015

Passed with high distinction

2010 - 2013 B.Sc. Forest Science and

Resource Management

Passed good

2008 - 2010 Magister Philosophy

Mid term exam 1.0

Experience

08/2019 -Postdoc at the Philipps-University Marburg

Ecology, AG Prof. Dr. Brandl 11/2019

2015 - 2019 Research assistant

Department of Conservation and Research

2008 - 2013 Student assistant

Diverse job at various chairs

e.g., library, digital root imaging, tutoring

Voluntary work in Fachschaft 2010 - 2013

Researcher at Clark University 02-05/2015

Massachusetts (USA)

Skills Programming in R, Rcpp, python

Data acquisition

(e.g., Web scraping, Text mining)

Data preprocessing

(e.g., Cleaning, Manipulation)

Data analysis

(e.g., Machine learning, Statistics)

Data presentation

(e.g., Visualization, Communication)

Version control / Git

Project management

Team work

Persistency in problem solving

Scientific writing

Dr. Claus Bässler, Prof. Dr. Hanno Schäfer References



DFGE ®







LMU & TUM

TUM

Data Science

Transferable skills

Publications

Lead scientist

Franz-S. Krah, Ulf Büntgen, Hanno Schaefer, Carrie Andrew, Lynne Boddy, Jeffrey Diez, Simon Egli, Robert Freckleton, Alan C. Gange, Rune Halvorsen, Einar Heegaard, Antje Heideroth, Christoph Heibl, Jacob Heilmann-Clausen, Klaus Høiland, Ritwika Kar, Håvard Kauserud, Paul M. Kirk, Thomas W. Kuyper, Irmgard Krisai-Greilhuber, Jörg Müller, Jenni Norden, Phillip Papastefanou, Leonie Schmid, Beatrice Senn-Irlet, Claus Bässler. European mushroom assemblages are darker in cold climates. *Nature Communications* 2019, 10(2890)

Franz-S. Krah, Sebastian Seibold, Roland Brandl, Petr Baldrian, Jörg Müller, Claus Bässler (2018). Independent effects of host and environment on the diversity of wood-inhabiting fungi. *Journal of Ecology* 2018, 106:1428-1442

Franz-S. Krah, Hanno Schäffer, Christoph Heibl, Claus Bässler, John Soghigian, David Hibbett. Evolutionary dynamics of host specialization in wood-decay fungi. *BMC Evolutionary Biology* 2018, 18:119-132

Franz-S. Krah, Andrew N. Miller and Scott T. Bates. rMyCoPortal - an R package to interface with the Mycology Collections Portal. *Biodiversity Data Journal* 2019, 7:e31511

Franz-S. Krah and Christoph Heibl. rGUIDANCE – alignment confidence score computation in R. *Journal of Open Source Software* 2019, 4(36):1350

Senior scientist

Boris A. Olou, Nourou S. Yorou, Manuel Striegel, Claus Bässler, **Franz-S. Krah.** Effects of macroclimate and resource on the diversity of tropical wood-inhabiting fungi. *Forest Ecology and Management* 2019, 436:79-87

Leonie Schmid, Claus Bässler, Hanno Schaefer, **Franz-S. Krah**. A test of camera surveys to study fungus-animal interactions. Online publication 5th April 2019 *Mycoscience*

Co-scientist

Sebastian Seibold, Jörg Müller, Petr Baldrian, Marc W. Cadotte, M. Štursová, Peter H. Biedermann, **Franz-S. Krah**, C. Bässler. Fungi associated with beetles dispersing from dead wood – Let's take the beetle bus! *Fungal Ecology* 2018, 39:100-108

Maria-Barbara Winter, Claus Bässler, Markus Bernhardt-Römermann, **Franz-S. Krah**, Hanno Schäfer, Sebastian Seibold, Jörg Müller. On the structural and species diversity effects of bark beetle disturbance in forests during initial and advanced early-seral stages at different scales. *European Journal of Forest Research* 2017, 136:357-373