

# Curriculum Vitae

## Marcus Fritze

PhD Student at the Leibniz Institute for Zoo and Wildlife Research (IZW), Department Evolutionary Ecology

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## Job description

- Doctoral position on the topic "immunology and energetics of European hibernating bats"
  - o Investigating the function of the immune system of hibernating bats infected by fungal pathogens
  - o Field work in hibernacula
  - o Lab work (immunology, genetics)

## Research fields and interests

- Bats
- Diseases
  - o White-nose syndrome
  - o Immunology
  - o adaptation
- Anthropogenic impacts on bats
  - o Wind turbines and bats
- Ecology of bat species
  - o Bat migration
  - o Bat habitat preferences, social behaviour
  - o Species biology, geography
- Citizen Science, NGO's, conservation politics
- Species Conservation, conservation genetics
- Biology, Ecology, Zoology, Genetics, Landscape planning

## Professional appointments

Since 2015	Scientist and PhD student at Leibniz IZW Berlin
2014-2015	Specialist for Species Conservation at <i>Untere Naturschutzbehörde Landkreis Mansfeld-Südharz</i> (county conservation authority)
2010-2014	Several work Orders concerning conservation of bats in wind energy and conservation projects (customers: BFL, Bingen; Myotis, Halle/Saale, FÖA, TrierKernscheid, etc.)
2012	Technical University of Berlin Tutor of the study project <i>Bodenmikroorganismen und ihre Rolle in Ökosystemen</i>
2011/2012	Technical University of Berlin Tutor of the study project <i>Ökologie und Energiewirtschaft in der Zeit des Klimawandels</i>
2011	Technical University of Berlin Tutor of the study project <i>Anthropogene Einflüsse auf das Schutzgut Flora &amp; Fauna</i>
2010/2011	Technical University of Berlin: Tutor of the study project <i>Ökologische Herausforderungen in Ballungsräumen</i>

## Education

Since 2015	Leibniz Institute for Zoo and Wildlife research - PhD student
2015	Master of science degree; thesis: <i>Investigating the presence of Geomyces destructans on bats and within their environment</i>
2012 - 2015	University of Greifswald: Biodiversity & Ecology - Master student
2012	Bachelor of Science degree; thesis: <i>Untersuchung der ökologischen Wachstumsbedingungen des sich auf Fledermäusen ansiedelnden Pilzes Geomyces destructans</i>
2009 - 2012	Technical University of Berlin: Landscape Planning & Landscape Architecture - Bachelor student

## Selected publications

FISCHER, KLAUS; BECKER, MARLEN; BECKER, BIANKA A.; BENSCH, JULIA; BÖCKERS, ANDRE; BURMEISTER, MARTIN; DOMBROWSKI, JANINE; DONKE, ELISABETH; ERMISCH, REBECCA; FRITZE, MARCUS; FRITZSCH, ANNA; HÜBLER, NORA; IDE, MARINA; KLOCKMANN, MICHAEL; MIELKE, MELANIE; PFENDER, DAVID; SCHIFFLER, MARIA; SCHRÖDTER, MARLEN; SUND, LARS; VIERTTEL, CAROLINE; WEISE, ELISABETH; WERNER, MAIKE; WINTER, MARTIN (2015): Determinants of tree frog calling ponds in a humantransformed landscape. In: *Ecological Research* 30 (3), pp 439-450.

FRITZE, MARCUS; PHAM, THI LAM HUONG; OHLENDORF, BERND (2012): Untersuchung der ökologischen Wachstumsbedingungen des sich auf Fledermäusen ansiedelnden Pilzes *Geomyces destructans*. In: *Nyctalus* 17 (3-4), pp. 146-160.

FRITZE, MARCUS; PHAM, THI LAM HUONG; ZASPEL, IRMTRAUT (2012): Effekt des *Bodenbakteriums Pseudomonas veronii*-like PAZ1 auf das Wachstum des WhiteNose Erregers *Geomyces destructans* in Antagonisten-Tests. In: *Nyctalus* 17 (3-4), pp. 104-107.

OHLENDORF, BERND; FRITZE, MARCUS; RUPSCH, CHRIS; TEUMER, CHRISTINE; BROCKMANN, DAGMAR (2011): Zum Vorkommen des Pilzes *Geomyces destructans* bei Fledermäusen in Sachsen-Anhalt. In: *Nyctalus* 16 (3-4), pp. 186-196.

OHLENDORF, BERND; FRITZE, MARCUS; SCHATZ, JULIANE (2010): Winterbeobachtungen von Zwergfledermäusen (*Pipistrellus pipistrellus*) und Kleinabendseglern (*Nyctalus leisleri*) in Fledermauskästen im Naturschutzgebiet Bodetal/NO-Harz (SachsenAnhalt). In: *Nyctalus* 15 (2-3), pp. 235-243.

Fritze, Marcus; Puechmaille, Sebastien (2017): Unusual mortality events in bats: a baseline for bat hibernation monitoring and white-nose disease research. Submitted.

## Volunteer positions

- Member of the Advisory Committee of EUROBATS (UNEP)
- Board of the „Bundesverband für Fledermauskunde“ (Federal association for bat expertise in Germany)
- Board of “Arbeitskreis Fledermäuse Sachsen-Anhalt” (Regional bat workers group in Saxony Anhalt)
- Member of advisory committee of *Nyctalus* journal
- Reviewer activity in PlosOne journal