

Dr. rer. nat. Martha Maria Sander

Position: Technician
Working Group "Sustainable Grassland Systems"



Academic education and scientific degrees

- 12/2021 PhD in Biology and Applied Biotechnologies (University of Turin, Italy)
- *Thesis: The ecology of alpine birds: Linking breeding and migration "with honors"*
- 09/2017 Master in Ecology, Evolution and Conservation (University of Potsdam, Germany)
- *Thesis: Fuel load and wing pointedness of migratory warbler species during autumn migration on the East Asian flyway "very good"*
- 10/2014 Bachelor in Life Sciences (University of Potsdam, Germany)
- *Thesis: Untersuchung der direktionalen bilateralen Asymmetrie in den oberen Extremitäten in Abhängigkeit von der Händigkeit mithilfe anthropometrischer Messmethoden "very good"*

Professional experience

- Since 03/2025 **Coordination** of Activities in Landscape Labs in FlNAL at ZALF e.V.
- 11/2023 – 02/2025 **Postdoc** at Alfred Wegener Institute (AWI), Helmholtz centre for polar and marine research
- Projects: 1. Antarctic seabird ecology
 2. Reconstruction of past arctic bird communities
- Main duties: field expeditions to Antarctica, data analysis/statistics in R & GIS, writing scientific publications and grant applications
- 09/2022 – 10/2023 **Researcher** at NABU (Naturschutzbund Deutschland) e.V.
- Project: Urban bird ecology
- Main duties: organization/coordination of ornithological field surveys in six German cities (breeding bird monitoring, traffic & habitat measurements), data analysis in R & GIS, writing scientific publication, presentation of study results at national & international conferences, co-supervision of theses and internships

- 10/2018 – 07/2022 **PhD** Project at University of Turin, Italy
 Project: The ecology of Alpine birds
 PhD (3 years, 3 months) and follow-up scholarships (6 months)
 Main duties: writing scientific publications, acquisition of funding, organisation of field seasons, bird (nest) monitoring, trapping and tagging of songbirds (geolocation), chick ringing, camera traps, habitat measurements, supervision of students and field assistants, data analysis in R & GIS
- 05/2018 – 07/2018 **Expedition** Far East Russia (University of Münster)
 PI Dr. Wieland Heim, Migration and breeding ecology
 Main duties: Capture, ringing & tagging of migratory songbirds (geolocation), leading 2nd bird capture team, monitoring breeding birds & habitat measurements, analysis of field data in R
- 06/2017 – 07/2017 **Field work** in Italian Western Alps (University of Turin)
 PI Prof. Dan Chamberlain, Breeding ecology
 Main duties: bird nest search & monitoring, point count censuses, chick ringing, temperature logger placement (nest and habitat), habitat measurements
- 09/2015 – 10/2015 **Expedition** Far East Russia (University of Potsdam)
 PI Dr. Wieland Heim, Migration ecology
 Main duties: bird ringing, autumn migration counts, ecological education
- 09/2014 – 10/2014 **Expedition** Far East Russia (University of Potsdam)
 PI Dr. Wieland Heim, Migration ecology
 Main duties: bird ringing, autumn migration counts, ecological education

Research Profile

Background

- Alpine and polar environments, climate change
- Animal Ecology: Migration, Movements and Reproduction
- Ornithology
- Field work, advanced statistics in R, GIS

Teaching and Supervision

- 2022 – 2023 NABU e.V., Germany
 External supervisor of 1 Master, 1 Bachelor thesis and 4 student internships
 Training in field methods & data analysis
- 2023 Bird species identification fieldtrip to Tagliamento river, Italy (University of Münster)
 Training in field ornithology, species identification, 1 week, 60 interdisciplinary students

- 2018 – 2022 University of Turin & Parco Naturale Val Troncea, Italy
Co-supervision of a Master’s thesis (Riccardo Alba, 2019), including training in field techniques, data analysis and publication in a peer-reviewed journal
Training and supervision of 8 student placements (“stage”, 1-2 months) between 2019 and 2021

Functions and memberships

Since 2023	<u>Vice-chair in COST action EUFLYNET</u> (https://www.cost.eu/actions/CA22117/)
2020 – 2021	<u>PhD student representative</u> at Department of Life Sciences and Systems Biology, University of Turin
Since 2017	<u>Executive Committee</u> Migrant Landbird Study Group (http://migrantlandbirds.org/) Lead and organisation of open webinars (7 sessions in 2020, 2021, 2022, >25 invited international speakers)
Since 2017	European Ornithologists’ Union Active member with yearly talks and poster presentations since 2017
Since 2015	Deutsche Ornithologen-Gesellschaft Active member with yearly talks and poster presentations since 2016
2014 – 2016	<u>Elected committee member</u> in Studienkommission and Institutsrat Biologie, University of Potsdam

Websites

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