

ANNIKA SCHLEMM

annika.schlemm@hotmail.co.uk
www.annikaschlemm.com

EDUCATION

- 2019 – 2020 **MPhil in Biological Science (Zoology)**
University of Cambridge
Cambridge, United Kingdom
Thesis: The effect of microplastic pollution on the ecosystem services of freshwater mussels
- 2016 – 2019 **BA (Hons) in Biological Science**
University of Oxford
Oxford, United Kingdom
Dissertation: Ecological determinants of avian malaria prevalence and diversity in eastern Australia

RESEARCH

- 2020 - **UN Environment Programme World Conservation Monitoring Centre,**
Cambridge, United Kingdom
Intern on the UNEP WCMC Science team, mapping nature's contributions to the UNs Sustainable Development Goals within protected areas. The work will result in a scientific publication to be used by policy makers and academics.
- 2019 – 2020 **University of Cambridge**
Cambridge, United Kingdom
Environmental research investigating the impact of microplastic pollution on the ecosystem services of invasive freshwater mussels (*Dreissena rostriformis bugensis*). The findings will be published in due course.
- 2019 **Institute for European Environmental Policy**
Brussels, Belgium
Undertook research in the Biodiversity and Ecosystem services team, investigating EU biodiversity policy and the expansion of the bioeconomy, with a focus on good ecological approaches that support environmental conservation and ecosystem services.
- 2019 **University of Oxford**
Oxford, United Kingdom
Environmental metabolomics laboratory work in the McCullagh lab. Studied oyster samples exposed to varying levels of aquatic pollutants and parasite load. Findings will be published in due course.
- 2018 **University of Oxford**
Oxford, United Kingdom
Avian malaria research in the Clegg lab. Investigated the ecological determinants

of avian malaria prevalence, with an emphasis on the effects of urbanisation, habitat fragmentation, and climate change. For this I developed a novel urbanisation index. Findings will be published in due course.

- 2018 **Research Expedition**
Marquesas Archipelago, French Polynesia
Independent six weeklong expedition to study the threats facing island species by surveying endemic and critically endangered birds. Designed and implemented scientific methodology in order to survey populations and to explore conservation threats. Findings will be published in due course.
- 2017 **Regensburg University**
Regensburg, Germany
Behavioural research in the Animal Comparative Economic Lab investigating the conflict of private information in the ant *Lasius niger*. I am co-author on a paper in *Animal Cognition*.
- 2017 **Princeton University**
Princeton, New Jersey, United States of America
Conservation research in the Wilcove lab. Undertook research evaluating the effectiveness of different conservation strategies, with a focus on protected areas and the impact on social, economic, and environmental variables, resulting in an [article](#) and a [visualisation](#). I am co-author on a paper in *Conservation Science and Practice*.

AWARDS and GRANTS

- 2020 **Queens' College Grant**
For graduate research at the University of Cambridge
£1,000
- 2016 – 2019 **Christ Church Travel and Study Grants**
For scientific research in America, Oceania, and Europe
£6,000
- 2019 **Christ Church Disbursement Grant**
For Christ Church Arts Week 2019
£3,500
- 2018 **Scientific Exploration Society**
For conservation research in French Polynesia
£5,000
- 2018 **Oxford University Exploration Council**
For conservation research in French Polynesia
£2,000
- 2018 **Berlin Zoo**
For conservation research in French Polynesia
£2,000

- 2018 **Heidelberg Zoo**
For conservation research in French Polynesia
£2,000
- 2016 – 2019 **Academic Scholar**
Awarded by Christ Church for attaining a distinction in exams
£600

PUBLICATIONS

Burivalova, Z., Allnutt T., Rademacher, D., **Schlemm, A.**, Wilcove, D.S., and Butler, R. (2019). What works in tropical forest conservation, and what does not: Effectiveness of four strategies in terms of environmental, social and economic outcomes. *Conservation Science and Practice*

Oberhauser, F.B., **Schlemm, A.**, Wendt, S. et al. (2019). Private information conflict: *Lasius niger* ants prefer olfactory cues to route memory. *Animal Cognition*

In the coming year, I will be lead author on four publications and co-author on two. Topics include small island conservation, the impacts of urbanisation on avian malaria, and the effect of microplastics on freshwater ecosystem services.

Non-academic publications include writing for *The Oxford Scientist* and *BlueSci*, which can be found on my [blog](#), and writing at [Terra Incognita](#) (finalist of the Travel Blogger of the Year writing competition).

SKILLS

Relationship building, working in a team

Built international collaborations for research expedition, working with [local NGOs](#) and islanders in French Polynesia, [global conservation NGOs](#), and grant bodies across Europe. Drew on their knowledge and experience to develop conservation initiatives for endemic and endangered birds.

Undertook research across six countries and three continents, working in teams with scientists, journalists, and policymakers.

President of Christ Church Arts Week committee, delegating tasks and leading a team of 25 students and collaborators, such as Oxford University Botanic Gardens and the [Wilderness Archive](#).

Member of the Department of Zoology, the Aquatic Ecology laboratory, and Queens' College (*University of Cambridge*) **environmental sustainability team**. Work involves developing sustainable food policies, engaging students and staff with local biodiversity, and working towards college divestment.

On the **access and outreach team** at Christ Church (*University of Oxford*) helping with tours, biology talks, and university interviews.

Member of Cambridge Zero Carbon and Positive Investment Cambridge, student led societies that campaign for colleges of the University of Cambridge to divest from fossil fuels.

Research and analytical skills

Heavily research-based degree disciplines, including self-directed and organised research that looks to encourage **sustainable transformations**, such as seeking out policy work on the biodiversity team at [IEEP](#).

Researcher and biodiversity **team leader** for data analysis of climate science research for the [Cascade App](#).

Skilled in statistical analysis in **R**, having undertaken many years of data analysis for environmental research, for instance for my 1st class undergraduate dissertation. Worked with spatial data in QGIS. Presently learning to code in **Python**.

Well versed in Microsoft Office and referencing software, which has been used for data analysis and literature reviews, as evidenced in my [publication](#) on conservation effectiveness.

Organisation and time management

Lead researcher for self-motivated conservation expedition to one of the most remote islands in the world. Work includes logistical planning, fundraising over GB£15,000 (CA\$25,515), designing and implementing scientific methodology, and analysing findings whilst undertaking the final year of my undergraduate degree.

Raised over GB£25,000 (CA\$42,525) of funding to support scientific research and art events. Supporting funding bodies include the **Scientific Exploration Society**, **Heidelberg Zoo**, **Oxford University Exploration Council**, and **Berlin Zoo**. Have received monetary awards for academic achievements.

President and **treasurer** of Christ Church Arts Week, coordinating 28 events, raising and handling a GB£3,500 (CA\$5,950) budget, and managing a large team. Learnt to balance and prioritise demands whilst undertaking my degree.

IB Biology teacher for Lanterna Education and as private tutor, independently planning lessons, preparing revision resources and activities, and marking work for individual students and classes of up to 15 students.

Communication and presentation skills

Panellist speaker at the Royal Geographical Society's *Explore* conference, and speaker at *the Oxford University Exploration Club*. Presented biological research to young and seasoned explorers and conservationists.

Science writer at *The Oxford Scientist* and *Blusci* student magazine and writer at [Terra Incognita](#).

Native speaker in **English** and **German**, working knowledge of French and Spanish.