



JANA EFREMOVA

ANALYTICAL, MULTILINGUAL ENVIRONMENTAL SCIENTIST WITH A
PENCHANT FOR ORGANIZING & COMMUNICATING SCIENCE



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ABOUT ME

Doctoral researcher with experience in climate change research, ecology, data analysis, bioinformatics, analytical chemistry and molecular biology. PhD has concerned the adaptation of marine ecosystems to climate change stressors, with a particular emphasis on ocean acidification. I further developed a new research methodology that allowed me to apply for a patent and collect experience in project management. Contributing to innovative research ideas and the analysis and representation of exciting data is one of my main motivational drivers. Having completed my PhD examination, I am seeking a new role.

SKILLS

Advanced speaker of: German (mother tongue), English (C2), Italian (C1), Spanish (C1) and Russian (B1).

Digital: Statistical Data Analysis in R, Bioinformatic Pipelines, proficient user of MS-Office, Graphical software: Adobe Illustrator, Biorender

SUMMARY

I am determined, creative, analytical, and passionate about environmental science. I bring excellent presentation, writing and communication skills.

WORK EXPERIENCE

ANTARCTIC EXPEDITION • UNI BARCELONA • FEB-MAR 2023

Conducting experiments on marine organisms to investigate their photoprotective mechanisms in response to climate change-induced threats such as ozone depletion and increased UV radiation

DOCTORAL RESEARCHER • STAZIONE ZOOLOGICA ANTON DOHRN • 2019 – 2023

Patent pending for a new research method using a submarine device, developed to investigate the impact of climate change stressors on marine invertebrates. Conducting environmental research and statistical analysis of experimental data. Research articles in peer-reviewed journals in publication process.

CONTENT WRITER • MEDIASANA • 2017 – 2018

Writing of nutrition- and health-related articles; Science Communication

UNIVERSITY RESEARCH ASSISTANT • UNIVERSITY OF JENA • 2015 – 2016

Laboratory work in molecular biology and cell biology at the Center for Molecular Biomedicine (CMB)

LAB DEMONSTRATOR • UNIVERSITY OF JENA • 2016

Supervision of a biochemistry course for students

EDUCATION AND TRAINING

PHD LIFE, HEALTH AND CHEMICAL SCIENCES • OPEN UNIVERSITY • 2019 – 2023

Thesis "Microbial and Metabolic Dynamics in Sponges under Ocean Acidification"; Oral examination completed, waiting for final award. Collaborated with international research teams across Europe.

Scientific Courses:

- How human generated CO₂ could reshape oceans – International course, La Palma, Spain – awarded prize for best abstract (2022)
- 8th International Conference on Microbial Communication for young scientists (MICOM; 2021)
- Data Fairness (International Winter School; 2021)
- Metabarcoding & Metagenomic Data Processing and Analyses (2020)

M.SC. BIOCHEMISTRY • UNIVERSITY OF JENA • 2016 – 2019

Grade 1.3 (Distinction / A)

B.SC. NUTRITIONAL SCIENCES • UNIVERSITY OF JENA • 2013 – 2016

Grade 1.5 (Distinction / A)

GRANTS AND FUNDING

EuroMarine-EMBRC	€5000	•	2020
Santander Scholarship	£1250	•	2020
Deutschlandstipendium	€3600	•	2017-2018
Erasmus+	€3600	•	2017-2018

SCIENTIFIC TALKS

LECTURE • BENEMÉRITA UNIVERSIDAD AUTONOMA DE PUEBLA, MEXICO • 2022

- The Sponge Microbiome - A model system to investigate the role of the microbiome in animal health”

INTERNATIONAL CONFERENCES • 2018 – 2022

- 32nd ESCPB (European Society for Comparative Physiology and Biochemistry):
Title of my talk: “Adaptive Traits in sponge holobionts under Ocean Acidification”
- 4th SISBNP (Sino-Italian symposium on Bioactive Natural Products):
“Metabolic responses in competing corals and sponges under manipulated microbiome distress”

VOLUNTEERING

STUDENT REPRESENTATIVE • 2017 – 2019 • BIOLOGICAL FACULTY, UNIVERSITY OF JENA

VIOLINIST IN STUDENT ORCHESTRA • 2015 – 2017 • UNIVERSITY OF JENA

VOLUNTARY ECOLOGICAL YEAR • 2012 – 2013 • INTERNATIONALER BUND JENA

HOBBIES AND INTERESTS

MUSIC

I play violin, piano, saxophone, and sing. I enjoy composing music and playing with other musicians.

FITNESS AND NATURE ACTIVITIES

I enjoy hiking, travelling, nature photography, running, yoga and meditation.