



JANA EFREMOVA

A DETERMINED, CREATIVE, MULTILINGUAL SCIENTIST WITH A
PENCHANT FOR ORGANIZING AND COMMUNICATING SCIENCE



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ABOUT ME

Doctoral researcher with experience in microbiome informatics, analytical chemistry, molecular biology and marine ecology. PhD has concerned the role of the sponge-associated microbiome and metabolome on organismal health under ocean acidification. I further developed a new, submarine research methodology that allowed me to precisely sample sponge water-fluxes *in situ*. Contributing to innovative research ideas that broaden our knowledge is one of my main motivational drivers in science. Having completed my PhD oral examination, I am seeking a role as early as April 2023.

SKILLS

Advanced speaker of:

German, English, Italian, Spanish and Russian.

Digital: Data Analysis in R, Bioinformatics, MS Office, Graphics: Adobe Illustrator, Biorender, Video: Davinci Resolve, Music: Ableton Live

SUMMARY

I am curious, determined, creative, analytical, a good communicator, and passionate about science.

WORK EXPERIENCE

DOCTORAL RESEARCHER • STAZIONE ZOOLOGICA ANTON DOHRN • 2019 – PRESENT

Patent pending for a new research method using a submarine device
Research articles in publication process

CONTENT WRITER • MEDIASANA • 2017 – 2018

Nutrition- and health-related articles; science communication

UNIVERSITY RESEARCH ASSISTANT • UNIVERSITY OF JENA • 2015 – 2016

Laboratory work in molecular biology and cell biology

LAB DEMONSTRATOR /TEACHING AID • UNIVERSITY OF JENA • 2016

Supervision of a biochemistry course for students

EDUCATION AND TRAINING

PHD MARINE MICROBIOLOGY • OPEN UNIVERSITY • 2019 – 2023

Oral examination completed (Dec 2022), corrections underway.
Collaborated with international research teams and presented my work in seminars, lectures, and international conferences.

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)

Thesis: "Metabolic Responses in Competing Corals and Sponges under Manipulated Microbiome Distress"

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

Grade 1.5 (Distinction / A)

Thesis: "Vanilloid derivatives and polo-like kinase 1 inhibition"

GRANTS AND FUNDING

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

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.