

Abeni John Dsa



PERSONAL INFORMATION

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12th June 1997

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LANGUAGES

English (C2)

German (C2)

Hindi (C1)

Konkani (Native)

SKILLS

- Python, R, ANOVA, Data Visualization, Data Filtering
- DNA/RNA extraction, RT-PCR, Biofilm assay, SDS-PAGE, Gel electrophoresis, Cell Culture, Next Generation Sequencing, Chromatography, Dissection
- MS Office Suite (Word, Excel, PowerPoint, Outlook), Latex, Adobe Light Room, Da Vinci Resolve

SCHOLARSHIPS & ACCOLADES

- Albertus-Magnus- und Hildegardis-Verein Studienstiftung**, Erzdiözese Freiburg **06.2023 – 11.2023**
- DAAD STIBET Stipendienstiftung Exzellenz-Stipendium**, RPTU, Kaiserslautern **07.2023 – 12.2023**

HOBBIES

- Art** - Playing the Piano, Singing, Painting, Handicrafts, Digital Drawing, Photography
- Sports** - Cycling, Hiking
- Travel** - Historic and Cultural Exploration

WORK EXPERIENCE

PROJECT COORDINATOR at *Referat Weltkirche (Eichstätt, Germany)*

03.2024–present

- Provide administrative and project coordination support within the World Church division.
- Conduct thorough background research and assess the predicted impact of sustainability projects on the natural ecosystem.
- Manage written communications related to event organization and project management.
- Oversee financial aspects of projects, including budget monitoring, accounting, and handling of transactions.

STUDENT RESEARCH ASSISTANT (HiWi) at *University of Freiburg (Germany)*

11.2022–02.2024

- Conducted behavioral studies on leaf-cutting ants to understand their ageing process.
- Maintained ant colonies and their symbiotic fungus gardens for research continuity.

ENGLISH AND GERMAN TEACHER at *Pratibha International School (Pune, India)*

09.2020–07.2021

- Guided students in understanding sentences and expressions related to personal details, daily activities, the environment, and family.
- Instructed grades 5-8 in fundamental and intermediate German grammar.
- Administered language proficiency evaluations.

EDUCATION

MASTER OF SCIENCE IN BIOLOGY, SPECIALISATION: ECOLOGY

Rhineland-Palatinate-Technical-University, Kaiserslautern, Germany **10.2021–02.2024**

FINAL GRADE: **1.6**

- Thesis: **Inherited or Acquired? Study of Microbiome Transmission in *Nicrophorus vespillo* and *Nicrophorus vespilloides*** (*University of Freiburg*)
 - Led cross-fostering experiments to analyze genetic and environmental effects on the gut microbiome of *N. vespillo* and *N. vespilloides*, applying rigorous experimental design and data analysis.
 - Independently dissected beetle guts and conducted DNA extraction, PCR, and sequencing of the V3-V4 region of the 16S rRNA gene for precise microbiome profiling in beetle offspring.
 - Utilized R for statistical analysis, including alpha diversity, NMDS, ANOVA, and PCoA, to reveal significant genetic and early-life impacts on gut microbiome composition.
 - Enhanced understanding of biological mechanisms influencing gut microbiome development in burying beetles.
- Courses: **Molecular Ecology, Microbiology, Aquatic Microbial Ecology, Plant Ecology, Ecology of Species Interaction**

MASTER OF SCIENCE IN ZOOLOGY

Savitribai Phule Pune University, Pune, India

07.2019–04.2021

FINAL GRADE: **1.5**

- Thesis: **Computational analysis of Opsin 2 protein in *Schistocerca gregaria***
 - Conducted research and structural analysis of Opsin2 protein in desert locusts.
 - Created 3D models and performed ligand docking using PyMol to modulate Opsin2 activity.
- Courses: **Entomology, Evolution & Ecology, Parasitology, Genetic Toxicology, Animal Tissue Culture**

BACHELOR OF SCIENCE IN ZOOLOGY

Savitribai Phule Pune University, Pune, India

07.2016–04.2019

FINAL GRADE: **2.0**

- Courses: **Zoology, Botany, Chemistry**

PROJECTS

EXPLORING THE INTRIGUING WORLD OF THE GUT MICROBIOME IN BURYING BEETLES

- ✧ Conducted metagenomic analysis of gut microbiomes across three beetle species and both sexes, explored their behavioral responses to mouse carcasses for nutritional insights and employed techniques such as dissection, DNA extraction, PCR, gel electrophoresis and sequencing.

IMPACT OF MIGRATORY BIRDS ON THE MICROBIAL COMMUNITIES AT THE WADDEN SEA

- ✧ Conducted a comprehensive study on Wadden Sea microbial communities at two distinct sites, focusing on assessing their composition, diversity, and ecological roles through DNA extraction, PCR, gel electrophoresis, and sequencing techniques.

INTRIGUING DIFFERENCES IN HERBIVORY PRESSURE BETWEEN ECOLOGICAL HABITATS

- ✧ Analyzed herbivory variation in Birch trees across Woodland and Quarry habitats, focusing on the impact of tree diversity.

CERTIFICATIONS

- ✧ **Python**, (Kaggle) (10.2024)
- ✧ **Good Manufacturing Practice (GMP) Training Course**, (GMP Academy) (02.2024)
- ✧ **Advanced Diploma in German Language**, (University of Mumbai) (02.2021)
- ✧ **Basic Techniques in Molecular Biology**, (Savitribai Phule Pune University) (08.2019)
- ✧ **Goethe-Certificate C1**, (Goethe Institute, Pune) (04.2018)
- ✧ **Grade 8 Piano Training**, (Trinity College, London) (01.2015)
- ✧ **Grade 7 Theory of Music**, (Trinity College, London) (06.2014)

CONFERENCES ATTENDED

- ✧ **Graduate Meeting of the Evolutionary Biology group of the Deutsche Zoologische Gesellschaft**, University of Bayreuth (04.2024)
- ✧ **Joint Graduate Meeting of the Ethological Society and the Behavioural Biology Section of the Deutsche Zoologische Gesellschaft**, (University of Bielefeld) (11.2023)

EXTRACURRICULAR ACTIVITIES

- ✧ **BASIS ORGELUNTERRICHT**, Amt für Kirchenmusik, Eichstätt (07.2024–present)
- ✧ **CHOIR MEMBER**, Heilige Familie Chor, Eichstätt (03.2024–06.2024)
- ✧ **YOUNG AMBASSADOR**, DAAD German Academic Exchange Service (08.2023–08.2024)
- ✧ **MUSICIAN**, Lobpreisband, KHG Edith Stein, Freiburg (10.2022–02.2024)
- ✧ **MEMBER OF THE ORGANIZING COMMITTEE**, Vauban Sommerfest, Freiburg (03.2023–06.2023)
- ✧ **STUDENT SECRETARY OF FOREIGN MINISTRY**, KHG, Kaiserslautern (08.2021–08.2022)
- ✧ **YOUTH PRESIDENT**, St. Francis Xavier's Church, Pune, India (06.2020–06.2021)

VOLUNTARY ACTIVITIES

- ✧ **ENGLISH TEACHER** at Ibtada (NGO), India (05.2021–08.2021)
 - Taught underprivileged girls English fundamentals, fostering practical usage and providing tailored support.
- ✧ **YOUTH CONGRESS** at Goethe Institute, Pune, India (06.2019)
 - Led youth involvement in Pasch's sustainable event, managing logistics, promotion and engagement to encourage sustainable practices.
- ✧ **UMDENKEN** at Goethe Institute, Pune, India (06.2018–07.2018)
 - Joined a public environmental exhibition, aiding setup, interactive activities, engaging visitors, and promoting conservation awareness.