

NICOLA SCHILLING

 | 06.12.1998 IN BERLIN
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ENGAGEMENTS

Co-Founder SiWiKo 2021

Student Initiative for science communication

Student council – Faculty of Life Science

Since 2021, elected winter '22 - summer '24

SKILLS

Microsoft Office ●●●●●●
R ●●●●●●
LaTeX ●●●●●●
GIS ●●●●●●
MatLab ●●●●●●
ImageJ ●●●●●●

LANGUAGES

ENGLISH C1/C2
FRENCH A2
SPANISH A1

INTERESTS

Pottery, Hiking
Music: E-Bass/Guitar
Sport: Fitness, Yoga, Bouldering

ACADEMIA

BIOLOGY – MASTER OF SCIENCE 04/2023 – 03/2025

● **Universität Leipzig, Leipzig**

Master thesis in Soil Biology/Functional Biodiversity (AG Wirth/Weigelt):

“Investigating environmental influences on soil fungal guild in grasslands”

● **Czech Academy of Science (AVCR), Prague** 11/2024 – 02/2025

Research Internship at the department of Environmental Microbiology (MBU) supervised by Dr. Petr Kohout:

Global patterns of fungal diversity, effect of land-use and climate a.o.

BIOCHEMISTRY/BIOMEDICINE – MASTER OF SCIENCE

● **Universität Leipzig, Leipzig** 10/2021 – 03/2023

Switch to Biology study program

BIOLOGICAL SCIENCE– BACHELOR OF SCIENCE

● **Universität Münster, Münster** 10/2017 – 07/2021

Bachelor thesis in Quantitative Cell Biology (AG Grashoff):

„Evaluation of an optogenetic tool to modulate talin mechanics in cells“

● **Universitat de Barcelona, Barcelona** 09/2019 – 02/2020

ERASMUS semester, focus on molecular biology

PHYSICS – BACHELOR OF SCIENCE

● **Universität Münster, Münster** 10/2016 – 09/2017

No graduation

WORKING EXPERIENCE

● **HiWi – STUDENT ASSISTENT SCIENTIST** 10/2022 – 10/2024

Max-Plank-Institute for evolutionary anthropology (EVA), Leipzig

Department: Advanced DNA Sequencing Techniques

Laboratory tasks/organization in cleanroom, sample prep. for NGS a.o.

● **STUDENT RESEARCH ASSISTANT** 07/2020 – 08/2021

Monasterium Laboratory Skin & Hair Research Solutions, Münster

Data- and image analysis, immunohistochemical staining, fluorescence microscopy

● **INTERNSHIP** 07/2021 – 08/2021

Olympus SIS, Berlin

Introduction into fluorescent microscopy/image processing

● **PRIVAT TUTOR** 04/2017 – 08/2020

For high school and evening school students in mathematics and biology

SKILLS

STATISTICAL SKILLS: R

Experience with: *vegan*, *phyloseq*, *lme4*, *sf/terra*, *tidyverse*, *dplyr*, *ggplot*, *caret*, *raster*, *car*,
PCA, NMDS, GLM, LMER, Presence-absence, RDS, Variance-partitioning

Worked with data on microbial (fungi and bacteria) alpha and beta diversity, community composition, OUT & ASV tables, geospatial data

LABORATORY SKILLS:

Sample preparation for Next Generation Sequencing: DNA Extraction, PCRs, Purification

Gel-Electrophoreses, Cell culture, Confocal Microscopy, Immunohistostaining, Working in a clean room environment

Soil respiration, Soil organic matter measurements, Enzyme Assays