



At the Intersection of Crops and Technology

Majoring in Plant Science at WUR with ample of work experience in laboratories in a variety of chair groups in different countries. With a semester abroad at UCC in Ireland, an apprenticeship as a biological technical assistant as well as extracurricular activities, I have cultivated a versatile skill set extending beyond plant related domains. This includes proficiency in programming, custom electronics design and construction, and image analysis.

Passionate to explore the intersection of crops and technology, to tackle the issues of food security and climate change.

Moritz Nelle

Work Experience

Assistant at the Institute of Cell Biology and Biophysics, Hanover:

- From 2021 to 2023 with interruptions, overall, 12 months (~ 600 h)
- Lab work: western blot, sterile work, establishment and maintaining cell lines, life cell imaging, 3D-printing of cell scaffolds, and more
- Teaching: assistant for practical courses, and tutoring

Multiple smaller internships/projects at:

- Hanover Institute for Optical Technologies
- Institute for Horticultural Production Systems
- BIOTHAN GmbH, fermenter monitoring

Education

2019-2020

Apprenticeship: Biological Technical Assistant, EKS, Kassel:

- Grade: 1.0 (translates to 9-10 in the Dutch grading system)
- Awarded by the GDCh as the best graduate of the year
- Relevant courses: biotechnological work, molecular genetic methods, protein biochemical and enzymatic methods

2020-2023

Bachelor: Molecular and Applied Plant Science, LUH, Hanover:

- Grade: 1.3 (translates to 8.5 in the Dutch grading system)
- Major: plant biotechnology
- Relevant courses: crop breeding, biosystem engineering, biochemistry, imaging, pedology, biostatistics, microbiology
- Thesis: "Development of an automated hyperspectral imaging approach for apple russeting quantification" (Grade: 1.0)

2022

Semester aboard, UCC, Cork, Ireland


- Grade: 1.0 (translates to 9-10 in the Dutch grading system)
- Relevant courses: Programming in C, Computational Biology

2023-2024


Master: Plant Science, WUR, Wageningen, Netherlands

- Specialization: Crop Science
- Relevant courses: Research Methods in Crop Science, Systems Analysis and Modelling, Python


Contact

 www.moritznelle.com
- Skills, Showcases, Posts, ...

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 German Citizenship

Skill Highlights

- Programming: C, Python, and Fiji Macro
- VS Code, Dev-C++, PlatformIO

- Image analysis
- ImageJ/Fiji, Python

- Projects around microcontrollers
- Combine hardware and software
- Drone building and piloting