

Microbes can help us transition to a sustainable economy and as a dedicated researcher with a strong practical and theoretical background, I am well equipped to work towards making this a reality. Through my time at Europe's flagship laboratory for the life sciences (EMBL) and my theses I have honed my skills in genetically engineering *E. coli* as well as algae and cyanobacteria. My time competing in the scientific contest iGEM meanwhile, has helped me develop an eye for detail and an ability to function both independently and in an interdisciplinary team. These skills combined with a strong work ethic and a passion for sustainability would make me an excellent candidate to help find and engineer the next generation of biocatalysts.

Vocational Experience

- 2017–present *European Molecular Biology Laboratory (EMBL)*, Monterotondo, Italy
- Job Title **Technical Officer**, Genetic and Viral Engineering Facility
- Achievements Provided high-quality genetic constructs and viral vector tools; established new protocols and methods; performed all general laboratory duties (manage lab supply, equipment and instruments, prepare stock solutions and media); improved database; managed sample data and accurately reported results to clients.

Research Experience

M.Sc. Thesis, Genetics & Experimental Bioinformatics

- Topic *Biochemical analysis of the Cas6-1 RNA endonuclease associated with the subtype I-D CRISPR-Cas system in *Synechocystis* sp. PCC 6803.* ([Publication](#))
- Achievements Managed own research project; successfully worked with cyanobacteria and RNA.
- [iGem 2015 Competition](#)

- Topic *Multiplexed antibody detection from blood sera by immobilization of in vitro expressed antigens and label-free readout via imaging reflectometric interferometry (iRIf).* ([Publication](#)) ([Team Website](#))
- Achievements Produced high-quality outcome as part of a team; accurately recorded and communicated results comprehensively for all team members as well as to a broad audience; successfully managed lab as a team.
- Awards Gold medal; nominated for Best Health and Medicine Project, Best Innovation in Medicine and Best Wiki.

Education

- 2014–2016 **M.Sc. Biology**, [Albert-Ludwigs-Universität Freiburg](#), Germany, GPA 4.0.
- 2011–2014 **B.Sc. Biology**, [Philipps-Universität Marburg](#), Germany, GPA 4.0.

Languages

- German Native Speaker
- English C1 *full working proficiency in speaking, reading and writing*
- Other Spanish, Italian, Portuguese *basic proficiency*

Computer Skills

- Office Tools Microsoft Excel, Word, PowerPoint; Adobe Illustrator *very proficient in all 4*
- Other FileMaker database, Geneious, SnapGene *basic working proficiency*