

# Curriculum Vitae – Tamara Ritter

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## Education

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### Master of Science Biology

2015 - 2018

Speck lab, Albert-Ludwigs University of Freiburg, Germany

Specialisation: Bionics and Biomechanics

Master thesis: Microstructuring of leaves and their influence on tribological properties. (Within the project "4DmultiMATS: Personalized 3D and 4D printing of programmable and switchable as well as self-regulating multifunctional material systems for sports and medicine.")

### Bachelor of Science Biology

2012 - 2015

Grimbacher lab, Albert-Ludwigs University of Freiburg

Specialisation: Immunology

Bachelor thesis: Verification of new mutations in families with early onset CED./ The role of neutrophil granulocytes in CED.

## Work Experience

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### Research assistant (with degree), Tay lab

Biologie 1/ Zoologie, Albert-Ludwigs University of Freiburg

03/2019 - present

Institute for Neuropathology, University Medical Centre Freiburg

09/2015 - 04/2016

Projects: "Restoration of microglial networks after clonal expansion",

"Establishment of microglial networks during brain development"

Responsibilities: molecular biology (genotyping, DNA purification), lab organisation, image analysis, research proposal, translations english-german, audit supervision

### Research assistant (with degree), Speck lab

03/2017 - 05/2017

Plant Biomechanics Group, Albert-Ludwigs University of Freiburg

## **Expertise**

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### **Laboratory techniques**

**Microscopy:** fluorescence imaging, image analysis (ImageJ, Imaris)

**Molecular biology/ Genetics:** gene analysis (internet research, primer-design (using the primer designing tools by NCBI - NIH), DNA purification from whole blood, PCR, purification of the PCR product as preparation for sanger sequencing, evaluation of the results with Sequencher 4.10.1), isolation of PBMCs from whole blood, RNA extraction, extraction of neutrophil granulocytes

**Protein analysis:** immunohistology (frozen sections, plant sections), ELISA, FACS (FlowJo)

### **Computer**

Microsoft Office 2013	familiar with Microsoft Word, Excel and PowerPoint
Programming languages	Basic knowledge in programming with Python (version 4.1) and R (version 3.4.4)
Adobe	Basic knowledge of image editing with Adobe Photoshop CS6 and developing interactive applications with Adobe Flash CS6

### **Languages**

English	Good knowledge
German	Mother tongue
French	Basic knowledge
Italian	Basic knowledge