

Benedikt Christian Clemens

Biomedical Data Scientist | benedikt.c.clemens [at] gmail.com

Education

Apr 2023 – Present

Life Science Informatics Master (University of Bonn, Germany)

Selection of attended courses:

- Visual Computing (Computer Vision & Data Visualization) → Best student, 4.0/4.0
- Computer Science for Life Scientists (object-oriented programming, data structures, algorithmic and numeric methods) → Among top 5 students, 3.7/4.0
- Programming Lab (advanced Python) → 4.0/4.0
- Mathematics for Life Scientists → Best student, 3.3/4.0
- Molecular Modeling and Drug Design → exam upcoming, best pre-exam among all student
- Machine Learning → practical training in graph neural networks and time series analysis (ongoing)

Overall GPA: 3.7/4.0

Jan 2022 – Present

Online coursework at edX and Coursera

- Mathematics for Machine Learning: Linear Algebra (Imperial College London)
- Mathematics for Machine Learning: Multivariate Calculus (Imperial College London)
- Machine Learning (Stanford University)
- Data Science: R Basics (Harvard University)
- Data Science: Visualization (Harvard University)
- Data Science: Probability (Harvard University)
- Data Science: Inference and Modeling (Harvard University)

Oct 2019 – Apr 2023

Bachelor of Science in Biology (University of Bonn, Germany)

- Specialization in bioinformatics and proteomics
- Overall GPA: 3.58

June 2016

High school diploma (Amos-Comenius-Gymnasium Bonn, Germany)

Advanced courses / focus in mathematics and physics

Research Experience

Nov 2023 – Present

University Hospital Bonn, Germany

Bioinformatician at the Meissner Lab

- Software development for wet-lab scientists to automate and streamline spatial proteomics data analysis
- Drafting patients for a longitudinal study investigating the systemic inflammatory response syndrome (SIRS)

June 2022 – Dec 2022

Massachusetts General Hospital, USA

Bioinformatician at the Haas Lab

- Writing my bachelor's and project thesis
- Analyzing proteomic data (Python)
- Automating proteomic sample preparation (Python)
- Developing novel methods to purify plasma proteins
- Processing over 1,200 patient samples for a large-scale lung cancer study

Oct 2021 – Dec 2021

Massachusetts General Hospital, USA

Intern at the Haas Lab

- Maintenance, troubleshooting and reparation of mass spectrometers and chromatographs
- Proteomic sample preparation

June 2021 – July 2021

University of Bonn, Institute of Genetics, Germany

Intern at the Witke Lab

- Studying the conditional knockout of the cytoplasmic FMR1-interacting protein 1 (CYFIP1) gene and its role in synaptic development
- Learning basic laboratory techniques

Extracurricular activities & work experience

May 2021 - Present	Co-Founder of a local environmental initiative: Deutscher Jugendbund für Naturbeobachtung (DJN) Ortsgruppe Bonn/Rhein-Sieg, Germany <ul style="list-style-type: none">• Observing species of the region with a team of ornithologists and entomologists• Organizing excursions to provide education about local flora and fauna
Oct 2018 – Oct 2020	Social worker at Domizil am Venusberg Working with residents requiring the highest level of care due to physical disabilities, late-stage cancer, and/or dementia
Jan 2018 – Aug 2018	Gardener (Leyenhof & Haus Bollheim), Germany Harvesting crops and taking care of cattle
Sep 2016 – June 2017	Gap year in Whistler / Vancouver, Canada Living and working in North Americas biggest ski resort
Aug 2014 – June 2016	Mediator: Amos-Comenius-Gymnasium, Bonn, Germany <ul style="list-style-type: none">• Supporting students to resolve conflict• Discussing issues students do not want to bring up with their teachers
Jan 2003 – June 2016	Professional athlete (Judo): 1. Godesberger Judo Club, Bonn, Germany <ul style="list-style-type: none">• Achieved several placements (including gold, silver, bronze) over a 5-year period (2011-2016) in international tournaments and at the West German Championships• Assistant trainer• Referee for local tournaments• Supervision of young athletes during training camps