

Jeroen Grigioni

Biomedical Engineer

- 04.04.1997
- Badenerstr. 293, 8003 ZH
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- jeroengrigioni@icloud.com
- https://jeroeng44.github.io
- Swiss/Dutch Citizenship

Languages

- German
- English
- Spanish
- French
- Afrikaans
- Portuguese

Technical Skills

- Python: Computer Vision
- Matlab
- R and statistics
- SQL and data handling
- CAD: Solidworks and Fusion
- Abaqus FEA

Working Experience

- Jan 2024 – ongoing **Research Engineer** Laboratory for Orthopaedic Biomechanics
Biomechanical testing of novel surgical techniques
- Jan 2024 – ongoing **Lead Tutor for the Laboratory Course in Medical Technology** ETH Zurich
Boneplate design and testing:
CAD → FEA → Material Testing → Biomechanical Testing
- Sept 2023 – Jan 2024 **Pyhsical Education Teacher** Sekundarschule Spreitenbach
Substitute teacher for PE in secondary school
- Feb 2023 – Sep 2023 **Health Coach** CARE
Consulting and coaching clients based on blood samples and other health measures
- June 2022 – Aug 2022 **Research Internship** Mechanical Engineering - UA
Creation of a finite element head model using medical images
- Oct 2021 – May 2022 **Production Engineer Intern** BIOTRONIK AG
Leading Medical device company (cardiovascular and endovascular implants); test method validation; development of test instructions; data analysis of material usage decision trends
- Jun 2019 – Aug 2021 **Mathematics Tutor** Zürcher Nachhilfe
Provide individualized instruction and guidance to students to help them improve their understanding and performance in mathematics
- Sep 2019 – Feb 2020 **Mathematics Teaching Assistant** ETH Zurich
Summarize the content of the lectures and help students with their weekly self-study. Teaching Assistant to Prof. Farkas
- Sep 2016 – Mar 2018 **Client Advisor** Helsana AG
Daily interaction with customers and using their feedback to improve the Helsana+ app

Education

University

- 2021 – 2023 **Master in Medical Technology (Ø 5.54)** ETH Zurich
Key courses: Biomechanics, Biomedical Engineering, Machine Learning, Finite Element Analysis, Laboratory Course in Movement Biomechanics, Soccer Analytics
Master Thesis (Ø 5.75) ETH Zurich and University of Aveiro
Creating a 2D tau protein propagation model and exploring the quantification of brain tissue volume in female brains in relation to age
- 2018 – 2023 **Teaching Diploma in Physical Education** ETH Zurich
Theoretical and practical education in various sports
- 2018 – 2021 **Bachelor in Health Sciences and Technology (Ø 5.28)** ETH Zurich
Focus: Biomedical Engineering, Medical Technology

School

- 2013 – 2016 **Bilingual Business and Law High School (Ø 5.5)** Kantonsschule Hottingen
Immersive high school program for bilingual students interested in business and law
- 2012 – 2013 **Exchange Year in South Africa (English/Afrikaans)** High School Piet Retief
Exchange Year in Piet Retief, South Africa