

Christoph Berger

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Experience

- 08/2019 – Current **Visiting Researcher**, Computational Imaging and Bioinformatics Lab, Harvard Medical School and Dana-Farber Cancer Institute, Boston, USA
Summer visit to further develop the modelhub.ai platform for deep learning. Additionally built a training pipeline and baseline deep learning model for organ and tumor segmentation during radiation therapy planning. Notable events: Participated in the IBM AI Research Week, gave an invited talk at UPenn.
<http://www.cibl-harvard.org/>
- 03/2019 – Current **Research Assistant**, Department of Neuroradiology, Klinikum rechts der Isar
Working on developing software to support the clinical workflow of radiologists and enable the collection of anonymized MRI scans to build a standardized database to support deep learning training. Supervised by Dr. B. Wiestler and Florian Kofler.
<https://compimg.github.io>
- 10/2018 – 04/2019 **Tutor**, Department of Informatics, Technical University of Munich, recurring every winter term: 2016, 2017, 2018
Teaching weekly exercise sessions in C programming, introduced automated plagiarism checks for assignments and automated the grading of exercises. Mentioned as one of the best tutors in the evaluation.
- 06/2017 – 10/2018 **Research Assistant**, Image-based Biomedical Modeling Group, TU Munich
Worked on automated brain tumor segmentation and the Brain Tumor Segmentation Challenge in coordination with Center for Biomedical Image Computing and Analytics at UPenn. Implemented Deep Learning algorithms in Python using Docker technologies and created a public repository of segmentation algorithms.
- 09/2017 – 10/2017 **IT Intern**, Global IT and Processes, Lenzing AG, Austria
Assisted with the introduction of Industry 4.0 and predictive maintenance applications in production which enable a cost reduction of more than 10% across all plants.

Education

- 10/2019 – Current **M.Sc. Biomedical Computing**, Technical University of Munich
The master's program in Biomedical Computing combines computer science with aspects of biology and medicine. It is an interdisciplinary program involving both the TUM Department of Informatics and the TUM School of Medicine.
I focus on data science and deep learning for medical image processing.
- 02/2019 – 10/2019 **M.Sc. Robotics, Cognition, Intelligence**, Technical University of Munich
Formal enrolment to be able to take courses until the official start of the Biomedical computing program.
- 10/2015 – 02/2019 **B.Sc. Engineering Science**, Technical University of Munich
Intense study program (210 ECTS) at the Munich School of Engineering (MSE)
Bachelor thesis (1.0) at the chair for Computer-Aided Medical Procedures under supervision of Prof. Dr. Menze on the fusion of image segmentation results and ensemble methods.

09/2005 – 06/2013 **Matura (High School Diploma)**, Bundesgymnasium Vöcklabruck, Austria
Graduated as one of the best students of the year 2013
GPA: 1.0 (best possible grade in Austria)

Volunteering

02/2018 – Current **TEDxTUM**, Operations Team Lead
Organization of a yearly main TEDx event with international speakers and over 500 attendees and multiple smaller events throughout the year. Main topics are science communication and empowering exceptional people from Munich to share their ideas. Responsible for the 10 members of the operations team which handles the event management aspects of the conference and coordination of more than 30 volunteers on the event weekend.

09/2018 **Bits & Pretzels Startup Festival**, Volunteer
Three days of volunteering at #bits18 with the main task of registration at the entry of the venue for over 4000 guests and side tasks like speaker relations and stage assistance. Also engaged in exciting discussions with various attendees, startups and corporations.

10/2013 – 06/2014 **Verein für Bildung und Erziehung, Franziskanerinnen Vöcklabruck**, Civil Servant
During my mandatory civil service in Austria I worked in a Kindergarten and elementary school day home in the age bracket from 3 to 9.

Languages German (Native), English (Full Working Proficiency, C1/C2), Spanish (Intermediate Proficiency, B1)