Bornberg | Curriculum Vitae

Name	Christina Elena Bornberg, BSc
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Languages	German (native), English (C1), French (A1), Chinese (A1)

SUMMARY

Electronics graduate, specialising in medical image analysis. Work and study expierence abroad. Co-leading an international, interdisciplinary space mission design project. Member of MICCAI, IEEE BME, WIA-E. Volunteer at Red Cross.

EDUCATION

2021 – 2023

MEDICAL IMAGING AND APPLICATIONS – MAIA (MSC)

+ Erasmus Mundus Joint Masters scholar
+ University of Burgundy, University of Cassino, University of Girona

2016 – 2021

ELECTRONICS (BSC)

+ Home University: UAS Technikum Wien (Semester 1,2,6)
  o Languages: C (Gtk+), Python, MATLAB, Assembler
  o Git, Linux/Fedora, Latex
  o Bachelor thesis: "Comparison of manual and algorithm based annotated training data for a Mask R-CNN", passed with distinction
+ Erasmus+ exchange year: Loughborough University (Semester 3,4)
  o Languages: C++, MATLAB/Simulink, Assembler, VHDL
+ Semester abroad: University of Southampton (Semester 5)
  o Computer Vision, Machine Learning, Control Systems, Embedded C
  o Languages: C, Python (Keras+TF, Scikit-Learn)

2011 - 2016

TECHNICAL HIGH SCHOOL – HTL WIEN 3, RENNWEG

+ Computer Science: A-Levels in Software Engineering, Project Management, Media Technology, German, English, Maths

EXPERIENCE

Summer 2021

UNIVERSITY COLLEGE LONDON: Summer intern (8 weeks)

+ Vessel segmentation of fetoscopy image data (PyTorch)

2020/21

MEDICAL UNIVERSITY OF VIENNA: Undergraduate Researcher (9 months)

+ Classification of fluorescein angiography images (PyTorch, Pydicom)
+ Deep Learning Journal Club

2020

AUSTRIAN RESEARCH INSTITUTE (OFI): Bachelor's Project (5 months)

+ Segmentation of microscopy images with different CV libraries (OpenCV, OpenIMAJ, Matlab Image Processing Toolbox)
+ ANOVA of medical device packaging (scikit-learn)

2017 - 2020

SKILLDISPLAY (SUPPORTED BY ERASMUS+)

+ Partly employed, TYPO3 Editor

2012 - 2015

HIGH SCHOOL SUMMER INTERNSHIPS

+ Alpen-Adria University Klagenfurt (4 weeks – 2015), Embedded Systems
+ A1 Telekom Austria (4 weeks – 2014), IT Services

COURSES & CONFERENCES

2020   **POSTER AND PRESENTATION AT MICCAI 2020, LABELS WORKSHOP:**
"Training data preparation with computer vision algorithms for a Mask R-CNN"

GAMP 5 seminar, GCP certificate, BR41N.IO Hackathon: machine learning for BCI

2019   **SUMMER SCHOOLS:** Denmark SDU Summer School (Deep Learning, Python), Romania SSIMA (MedTech, Python), ESA Alpbach Summer School (Geophysics from Space using CubeSats), Tallinn Summer School (Storytelling and Illustration)

HPCi|media Cleanroom Technology Conference, CytoData Conference and Hackathon, Vienna Techstars Startup Weekend Women, CCHack (Sustainability, RaspberryPi), Lboro Space Conference, UKSEDS Student Space Conference

2018   Conference on Communication in Healthcare (ICCH) – Porto
European Association for Health Information and Libraries (EAHIL) – Cardiff
Austrian Cleanrooms Annual Meeting, TYPO3 events in Cluj, Mainz and Vienna

2018 – 2020   EUWA – Erasmus+ further education: Health comms and health information

2016/17   Hubspot academy – inbound marketing certified, TYPO3 CMS Certified Editor

2014 – 2016   Project Manager IPMA Level D certificate
Project management, game-storming, teambuilding – 14 x 4 hours
Seminar: communications and teambuilding – 34 hours

PROJECTS

Since 04/2020   **CONEX RESEARCH**

+ Co-lead of international online student space mission project
+ Arcanum Mission: Neptune, Triton, Kuiper Belt
+ Multiple conference papers: GLEX 2021, BIS 2021, IAC 2021

2016 – 2019   **UNIVERSITY PROJECTS**

+ Scene classification (Python, TensorFlow)
+ Fake news classification (Python, Scikit-learn)
+ IoT project (NXP, RIOT-OS)
+ Model rocket engine, Loughborough Space Society (Arduino Due)
+ Maze solving robot (Arduino Uno)
+ XMCarl: Remote control car (XMC)
+ Hidden Demon Game (C, GStreamer, GTK+)

2013 - 2016   **TECHNICAL HIGH SCHOOL PROJECTS**

+ A-Levels project: Hovering Steward - Autonomous flying waiter (Hex-rotor) Embedded C (PIC), Finals of 7 awards (2015/16)
+ Fictitious company "Bezany", PMA Junior Award Finals (2015/16)
+ Detective Stories, app for crime fans (2014/15)
+ Event planning: Project Award of HTL Rennweg (2013/14)

VOLUNTEERING

Since 09/2011   **RED CROSS**

+ Red Cross Youth (09/2011 – 06/2016)
+ Disaster relief team: Realistic scenario creation (since 09/2012)
+ Last First aid course – 16h (2018), first aid badge: team leader (2015)
+ LSU British Red Cross Society (2018/19)
+ German/Maths tutoring for children from disadvantaged families (2021)

2018/19   **ENGINEERING WITHOUT BORDERS**

+ Loughborough University