

Julia Ronneberger

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Nationality: German

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EDUCATION

- 2021** **UWE Bristol, Masters Degree: MA Virtual and Extended Realities**
- 2016 - 2020** **University College London, Undergraduate degree: MEng Mathematical Computation, First Class Honours**
Master Project on "3D pose estimation from a single 2D image"
- 2012 - 2016** **Rotteck-Gymnasium Freiburg, Germany, Abitur** (Comparable exam to UK A-Levels):
Overall: 1.0 (highest achievable grade)
Mathematics (15/15 pts), Physics (15/15 pts), English (14/15 pts), German (13/15 pts)

WORK EXPERIENCE / VOLUNTEERING / PROJECTS

- 2022** **C# Engineer at Ultraleap**
XR Integration of hand tracking tools into Unity: maintaining the Unity Plugin, implementing new features and creating examples
- 2021** **Master Project "Cognition"**
Exploring a user's sense of presence and immersion in VR when using passive haptics. Developing a short teaser for an interactive VR experience: Character Design and Animation, Unity Development, Technical implementation using an Arduino, Trackers and potentiometers.
(https://juliaronneberger.com/Project_Cognition.html)
- 2021** **Freelance Junior Unity Developer at Anagram**
Asset integration, Vetting and QA for the Virtual Reality Documentary "Goliath"
(<https://weareanagram.co.uk/project/goliath>)
- 2019 - 2020** **Master Project on "3D pose estimation from a single 2D image"**
Independent research and development of a neural network for pose estimation
(https://github.com/JuliaRon/Masterproject-3D_pose_estimation).
- 2019** **Summer Research Internship at UCL**
Using drone swarms to defend an airfield against a single intruder,
Gained practical skills in Reinforcement learning with Tensorflow and Keras
- 2019 - 2020** **Programming Mentor for students in their first year**
Support students in their programming projects and explain relevant logic, mathematics and programming concepts
- 2018 - 2020** **Coding helpdesk - Computer Science Department UCL**
Explaining programming concepts to coding novices
- 2018 - 2020** **"Student Teaching Assistant" - Information Services Division UCL**
Assisting at workshops, classes and drop-in sessions about IT concepts and using software such as Excel and Word
- 2017** **"Transition Mentor" for students in their first year**
Share experiences, support students in academic and personal matters

- 2015** **"Schüler-Ingenieur-Akademie" (student academy for engineering)**
 Insight into different engineering careers in cooperation with engineering companies (stryker, SICK and MICRONAS); gained skills in teamwork, presentation techniques and in writing scientific essays as well as skills in computer science, microsystems technology, business management and more; Final paper and presentation about "artificial neural networks" (highest achievable grade)
- 2012 – 2013** **Mentor of Confirmees in our local church**
 Work in a team of 15 teenagers, planning and realisation of two meetings a week with the confirmees, support confirmees on their path to the confirmation
- 2009 – 2013** **Junior Ambassador UNICEF**
 Organisation, management and participation in many events to raise money for UNICEF and raise awareness of the children's circumstances in several countries

PRICES

- 2016** **"Abiturpreis der Deutschen Physikalischen Gesellschaft"**
 Award from the 'German Physical Society' for extraordinary achievements in physics
- "Abitur-Preis Physik"**
 Award from the Rotteck-Gymnasium Freiburg for extraordinary achievements in physics
- "Abiturpreis der Deutschen Mathematiker-Vereinigung"**
 Award from the 'German Mathematical Society' for extraordinary achievements in mathematics
- "Ferry Porsche Preis"**
 Award from 'Porsche' and the 'ministry for culture, youth and sports' for extraordinary achievements in mathematics, physics and technology
- 2013** **Second prize in statewide mathematical competition (Landeswettbewerb Mathematik, Baden-Wuerttemberg)**
 Participation in the mathematical seminar about "stochastik"
- 2012** **Second prize in statewide mathematical competition (Landeswettbewerb Mathematik, Baden-Wuerttemberg)**
 Participation in the mathematical seminar about "graph theory"

SKILLS

- IT:** Programming in Java, C, Python, Matlab, Haskell and HTML at an intermediate level,
 Experience with tensorflow and pytorch,
 Unity development and C# programming at an intermediate level,
 Experience in android app development, Arduino programming,
 Mobile robot (ActivityBot) programming in C
- Design:** Design methods, CAD, material selection, development of a prototype
 Blender: Character Design and Animation
- Languages:** German as mother language, English fluently, French (5 years in school),
 Latin (4 years in school)
- Sports:** Member of canoe club, several years of competitive sports (canoe slalom)
 completed training as a kayak tour guide / expedition leader