

# Julia Ronneberger

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Nationality: German

## EDUCATION

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<b>2021</b>	<b>UWE Bristol, Masters Degree: MA Virtual and Extended Realities</b>
<b>2016 - 2020</b>	<b>University College London, Undergraduate degree: MEng Mathematical Computation, First Class Honours</b> Master Project on "3D pose estimation from a single 2D image"
<b>2012 - 2016</b>	<b>Rotteck-Gymnasium Freiburg, Germany, Abitur</b> (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

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<b>2021</b>	<b>Freelance Junior Unity Developer at Anagram</b> Asset integration, Vetting and QA for the Virtual Reality Documentary "Goliath" ( <a href="https://weareanagram.co.uk/project/goliath">https://weareanagram.co.uk/project/goliath</a> )
<b>2019 - 2020</b>	<b>Master Project on "3D pose estimation from a single 2D image"</b> Independent research and development of a neural network for pose estimation ( <a href="https://github.com/JuliaRon/Masterproject-3D_pose_estimation">https://github.com/JuliaRon/Masterproject-3D_pose_estimation</a> ).
<b>2019</b>	<b>Summer Research Internship at UCL</b> Using drone swarms to defend an airfield against a single intruder, Gained practical skills in Reinforcement learning with Tensorflow and Keras
<b>2019 - 2020</b>	<b>Programming Mentor for students in their first year</b> Support students in their programming projects and explain relevant logic, mathematics and programming concepts
<b>2018 - 2020</b>	<b>Coding helpdesk - Computer Science Department UCL</b> Explaining programming concepts to coding novices
<b>2018 - 2020</b>	<b>"Student Teaching Assistant" - Information Services Division UCL</b> Assisting at workshops, classes and drop-in sessions about IT concepts and using software such as Excel and Word
<b>2017</b>	<b>"Transition Mentor" for students in their first year</b> Share experiences, support students in academic and personal matters
<b>2015 - 2016</b>	<b>Tutoring an 8<sup>th</sup> grader in Mathematics</b> Teaching Experience, independent design of curriculum, take responsibility and improve coaching skills
<b>2015</b>	<b>"Schüler-Ingenieur-Akademie" (student academy for engineering)</b> 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

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- 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 price in statewide mathematical competition (Landeswettbewerb Mathematik, Baden-Wuerttemberg)**  
 Participation in the mathematical seminar about "stochastik"
- 2012**      **Second price in statewide mathematical competition (Landeswettbewerb Mathematik, Baden-Wuerttemberg)**  
 Participation in the mathematical seminar about "graph theory"

## SKILLS

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- 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
- 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