

Jose Luis Ponton

RESEARCH ASSISTANT · COMPUTER ANIMATION · XR · COMPUTER GRAPHICS

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Education

Universitat Politècnica de Catalunya

Barcelona, Spain

M.Sc. IN INNOVATION AND RESEARCH IN INFORMATICS

Sep. 2020 - Jul. 2022

- Grade: 9.15/10.00
- Specialization in Computer Graphics and Virtual Reality
- Thesis: Motion Matching for Character Animation and Virtual Reality Avatars in Unity

Universitat Politècnica de Catalunya

Barcelona, Spain

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Sep. 2016 - Jul. 2020

- Grade: 9.03/10.00 (Rank 3 of 239).
- Thesis: Navigation and collaboration techniques for Virtual Reality.

Research Experience

CYENS Centre of Excellence

Nicosia, Cyprus

RESEARCH INTERN

Jul. 2022 - Sep. 2022

- Researched Deep Learning for data-driven character animation from sparse input data.
- Supervisor: Dr. Andreas Aristidou.

ViRVIG Research Group - Universitat Politècnica de Catalunya

Barcelona, Spain

RESEARCH ASSISTANT

Apr. 2019 - Jul. 2022

- Researched real-time motion synthesis for VR self-avatars: Deep Learning character animation, Motion Matching, Inverse Kinematics and Motion Capture.
- Developed an open-source Unity package to easily integrate VR self-avatars to any application. <https://github.com/UPC-ViRVIG/AvatarGo>.
- Developed collaborative VR and AR tools for visualizing and interacting with architectural designs. Project in collaboration with Temple Expiatori de la Sagrada Família.

Skills

Programming	Python, C#, C++, \LaTeX , R, CUDA, GLSL/HLSL
Game Engines/Libraries/SW	Unity, PyTorch, Blender, Git
Languages	English, Spanish, Catalan

Publications

Combining Motion Matching and Orientation Prediction to Animate Avatars for Consumer-Grade VR Devices

JOSE LUIS PONTON, HAORAN YUN, CARLOS ANDUJAR, NURIA PELECHANO

ACM SIGGRAPH/Eurographics Symposium on Computer Animation (SCA). Sep. 2022. Durham, United Kingdom.

AvatarGo: Plug and Play self-avatars for VR

JOSE LUIS PONTON, EVA MONCLUS, NURIA PELECHANO

Eurographics 2022 - Short Papers. May. 2022. Reims, France. (10.2312/egs.20221037).