Dr. Simone Barbieri

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Professional Experience

2022 - on Pipeline Developer | Ynput, Prague, Czech Republic Role: Worked on OpenPype pipeline software, mainly on the integration of Unreal Engine.
2020 - 2022 Pipeline Developer | Cloth Cat Animation, Cardiff, UK Role: Worked on animation tools and OpenPype pipeline software, mainly on the integration of

Blender and Unreal Engine for animated series.

2016 – 2020 **Research Engineer** | Cloth Cat Games (formerly Thud Media), Cardiff, UK Role: Research on curve-skeletons and sketch-based interactions for posing and animation.

2014 – 2015 **Research Fellow** | Università degli Studi di Cagliari, Cagliari, Italy Role: Research on experimental programming language based on spreadsheets.

Education

2009 - 2012

2015 – 2020 EngD in Digital Media | Bournemouth University, UK

Thesis: Generation of 3D characters from existing cartoons and a unified pipeline for animation and video games.

2012 – 2014 **MSc in Computer Science** | Università degli Studi di Cagliari, Italy Thesis: Skeleton Editing and Mesh Reconstruction from Skeleton.

BSc in Computer Science | Università degli Studi di Cagliari, Italy

Project Experience

2020 – on **OpenPype** | https://openpype.io

Open source pipeline for visual effects and animation.

Role: Mainly integration of Blender and Unreal Engine in the pipeline.

Publications

2018	Barbieri, S, Jiang, T, Cawthorne, B, Xiao, Z, Yang, X. 3D content creation exploiting 2D
	character animation. ACM SIGGRAPH 2018 Posters. doi:10.1145/3230744.3230769.

Barbieri, S, Cawthorne, B, Xiao, Z, Yang, X. Repurpose 2D Character Animations for a VR Environment using BDH Shape Interpolation. *Next Generation Computer Animation Techniques. AniNex 2017. Lecture Notes in Computer Science*. doi:10.1007/978-3-319-69487-0 6.

Barbieri, S, Garau, N, Hu, W, Xiao, Z, Yang, X. Enhancing character posing by a sketch-based interaction. *ACM SIGGRAPH 2016 Posters*. doi:10.1145/2945078.2945134.

2016 Barbieri, S, Meloni, P, Usai, F, Spano, LD, Scateni, R. An interactive editor for

curve-skeletons: SkeletonLab. Computers & graphics. doi:10.1016/j.cag.2016.08.002.

2015 **Barbieri, S**, Meloni, P, Usai, F, Scateni, R. Skeleton Lab: an Interactive Tool to Create,

Edit, and Repair Curve-Skeletons. Smart Tools and Apps for Graphics - Eurographics

Italian Chapter Conference. doi:10.2312/stag.20151299.

Skills

Core Competencies

Unreal Engine Integration of Unreal Engine in the OpenPype pipeline. Development of plugins for support

to studio artists.

Blender Integration of Blender in the OpenPype pipeline. Development of addons for support to

studio artists.

Maya Development of custom scripts for animation support.

Programming Languages

Python Development of integrations for OpenPype. Scripts for Unreal Engine, Blender and Maya.

C++ Development of plugins for Unreal Engine.

C Development of Blender source code.

C# Development of Unity scripts.

Ot Development of tools for curve-skeleton editor and sketch-based interaction.

Lua Basic knowledge for development of extentions for MMORPG games.

Languages

Italian Native

English Lived and worked in the UK since 2015 and completed my EngD in a UK university.