

JAMES ROBERTS

+44 7736 336 392

JRoberts86@gmail.com

LinkedIn: www.linkedin.com/in/jroberts86/

GitHub: github.com/epochlab

IMDB: www.imdb.com/name/nm4292541/

Portfolio: vimeo.com/user144117873

Profile

A focused professional with over 12 years industry experience and a deep understanding of complex systems. I specialise in engineering simulation toolkits that represent a broad range of phenomena, including physical, biological and abstract domains, with an overarching goal to model real-world properties within synthetic environments.

- Committed to computing the complexities of the world around us.
- Versatile and adept at harnessing bits and bytes, as I am lenses and optics.
- Recently completed an MSc in Computational Neuroscience.
- Conducted research into the self-organisation of orientation features within the striate cortex.
- Actively seeking a new role that allows me to leverage my multidisciplinary skills and innovate further in the realm of abstract computation.

Experience

Technical Director, EPOCH Lab 2018-2022

I led the overall research efforts and decided the engineering road map for production toolkits. Projects included: Voxel Rendering of MRI Data | Crowd Behaviour | Dynamic Clustering | PyroFX | Reinforcement Learning | Decoding & Visualising mRNA Sequences.

Effects TD | Lead Artist | On-set Supervisor | VFX Supervisor | Senior Artist, UnionVFX 2012-2018

During my employment at Union Visual Effects, I progressed from Effects TD to Lead Artist before assuming the role of VFX Supervisor/Senior Artist. I was part of the initial FX team assembled for Danny Boyle's London Olympic Opening Ceremony in 2012 and contributed to the company's growth from eight to over a hundred employees across multiple sites. I developed studio-wide tools, worked directly with clients and supervised live-action photography; overseeing projects from concept through to final client delivery.

Throughout these roles, I was a key member in 40+ feature productions, including: Paddington | The Theory of Everything | Everest | Three Billboards Outside Ebbing, Missouri | T2: Trainspotting | The Two Popes | Marvel's Moon Knight | The Banshees of Inisherin.

On-Set Data Wrangler, 21st Century Fox 2012

Effects TD, Peerless Camera Co. 2010-2012

Technical Artist, SideFX Software 2010

Education

University of Sheffield 2022-2023

MSc (Merit) Cognitive & Computational Neuroscience

Bournemouth University, NCCA 2008-2009

MA (PGDip w/ Merit) Digital Effects

Leeds Metropolitan University 2005-2008

BSc (Hons) Computer Graphics, First Class Honours

High Peak College 2002-2004

BTEC Information Technology & A-Level Graphic Design

Lady Manners School 1997-2002

Technical Knowledge

Computer Graphics	Neuroscience	Data Science / ML	Languages
Houdini	Cortical Self-Organisation	PyTorch	Python
Nuke	Laplacian Associative Memory	NumPy Pandas	VEX (Shader Writing)
Raytracing	Hopfield Networks	MatLAB	C++
Photogrammetry	Reinforcement Learning	Differential Equations	Shell BASH
Lenses Optics	Recurrent Neural Networks	Graph Theory	LaTeX

While exploring the world of computer graphics, I have found the theory behind the production of commercial artwork is of equal importance, leading me to spend time in R&D departments and academia. In my spare time, I work on a high-altitude radiosonde program which aims to provide an open-source platform for collecting real-world atmospheric data.

References

Adam Gascoyne
Founder, UnionVFX

Dr Stuart Wilson
Senior Lecturer - Computational Neuroscience,
University of Sheffield