Dr. John O'Hare

Founder & Director, DreamLab AI Consulting Ltd.

AI Strategy & Training | Immersive Technologies | Elastic Agency of 42 Specialists

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Short Resumé

Founder & Director (2020–Present)
DreamLab AI Consulting Ltd. · Manchester 📍

Orchestrating projects through a network of 42 specialist consultants. Delivering AI strategy, implementation, and training.

Spatial AI Lead (2023–Present)
Immersive Technology Innovation Hub · MediaCityUK 📍

Accelerating regional development with InnovateUK. XR, virtual production, esports/gaming. GraphRAG-based VisionFlow.

R&D Lead (2020–2023)
PathwayXR Studio · Manchester 📍

XR convergence, metaverse persistence for virtual production, telepresence, ML integration.

Technical Director (1996–2020)
University Of Salford · Salford 📍

24 years directing large-scale mixed reality labs. First CaVE outside USA. IMAX "Adrenaline Rush".

Recent Highlights

2024 | **Product development**
LogseqXR · 📍
Transforms Logseq knowledge base into immersive 3D visualisation. WebXR, GPU acceleration, real-time GitHub sync, voice interaction for AR/VR exploration.

2022 | **Product development**
DREAMLAB AI for VP · 📍
Open, federated metaverse for film-making. Decentralized computing, secure messaging, ML integration.

2022 | **Associate**
GM AI Foundry · 📍
Seminar series on blockchain for AI systems.

2020 | **Associate**
GM Cyber Foundry · 📍
Product development for SMEs on mixed reality, distributed systems.

Select Clients & Partners

Higher Education: Universities of Manchester, Birmingham, Salford, Liverpool
Corporate: THG International, Immersive International
Technology: HP, IBM
Public Sector: Salford City Council
Current: Agentic Alliance
Testimonials: linkedin.com/in/jjohare

AI Training & Workshops

AI Accelerator Programme — 5-day residential, Lake District, Cumbria

✔ VS Code as AI command centre
✔ Local AI models & RAG systems
✔ MCP servers & tool integration
✔ Vibe coding & prompt engineering
✔ Agentic AI workflows
✔ Knowledge graphs

Lake District retreat & immersive training facility

👤 PROFESSIONAL PROFILE

Founder of DreamLab AI Consulting, orchestrating projects through a network of 42 specialist consultants. Over 25 years developing immersive technologies and AI systems. PhD in telepresence (BBC R&D). Proven track record delivering enterprise AI strategy, training, and implementation across the UK.

Core Expertise

AI & Automation: Agentic systems, RAG, LLM integration, vibe coding, generative AI
Immersive Tech: XR/VR/AR, virtual production, spatial computing, telepresence
Infrastructure: Linux, cloud/vGPU, networking, cyber security, distributed systems
Development: Python, Rust, Unity3D, Unreal, NeRF, real-time graphics
Project Management: PRINCE2 Agile Practitioner

EDUCATION

2016	**Small group tele collaboration**	
	PhD · University Of Salford 🏛	

1998	**Virtual Environments**
	MSc · University Of Salford 🏛

1997	**Professional Studies**
	PGDip · University Of Salford 🏛

1996	**Electronic Electrical Engineering**
	BSc(Hons) · University Of Salford 🏛

AWARDS & RECOGNITION

2014 Green Gown Award Finalist — Sustainability in HE

2011 MediaCityUK Star Award — University of Salford

2002 IMAX Featured Scientist — "Adrenaline Rush" documentary

Certifications: ScrumMaster · Glider Pilot · CAT 10 Skydiver · Open Water Diver

SPEAKING & MEDIA

Regular speaker on AI strategy, immersive technologies, and digital transformation. Featured in IMAX documentary on extreme sports science. Delivered seminars at GM AI Foundry and GM Cyber Foundry. Workshop facilitator for enterprise AI adoption programmes.

TECHNICAL PROFICIENCIES

Languages: Python, Rust, TypeScript, C++, GLSL
AI/ML: PyTorch, LangChain, RAG, vector DBs, LLM fine-tuning
3D/XR: Unity3D, Unreal, WebXR, NeRF, Gaussian splatting
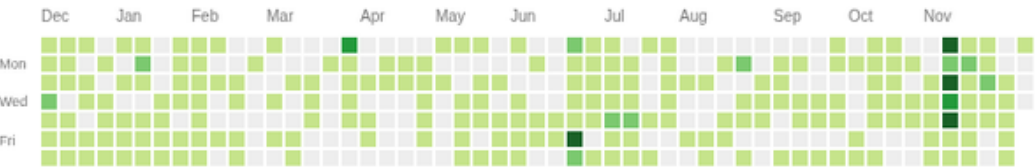**Infrastructure:** Docker, K8s, Linux, CUDA, vGPU
Protocols: WebRTC, MQTT, gRPC, REST, WebSockets

SELECTED PUBLICATIONS

2022	**LEAD**	Money and Trust in Digital Society, Bitcoin and Stablecoins in ML enabled Metaverse.
2019	**LEAD**	Telethrone: situated display using retro-reflection for remote collaboration.
2018	**LEAD**	Telethrone Reconstructed; Ongoing Testing Toward a More Natural Situated Display.
2016	**LEAD**	Is this seat taken? Behavioural analysis of the Telethrone.

Full list: orcid.org/0000-0001-5209-7754

GRANT INVOLVEMENT HIGHLIGHTS

2024	RA for £3M Innovate:UK (MITIH)
2022	£800k Horizon Europe (Eduverse)
2020	£40k HEIF for data visualisation
2016	£1M HEFCE Octave upgrade
2014	£1M SRIF Octave upgrade
2011	**LEAD** £1.8M Egg system (MCUK)
2010	**LEAD** £1M RCIF immersive acoustics
2007	£1M EPSRC Octave platform

OPEN SOURCE & PRODUCTS

VisionFlow (59☆) — Rust-based immersive knowledge graph engine with GraphRAG, WebXR, real-time 3D visualization.

LogseqXR — WebXR knowledge graph explorer with GPU-accelerated force-directed layouts and voice interaction.

Open Metaverse Design — 400-page open source book on federated metaverse architecture, distributed computing, and ML integration.

DREAMLAB AI for VP — Open federated metaverse platform for virtual production workflows.

NOTABLE PROJECTS

Octave Platform — First 10-sided immersive projection system outside USA

Egg System — Spherical telepresence display, MediaCityUK

Telethrone — Retro-reflective situated display for collaboration

IMAX Documentary — Motion capture for "Adrenaline Rush"

GITHUB PROFILE

🔘 github.com/jjohare — **40 repos** · **97**☆ total · Pro member   **Pinned:** VisionFlow (59☆), Agentic Alliance (4☆)

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