

Alex Williams

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Education

PhD. Artificial Intelligence and Music **2022 – 2026 (Expected)**
Queen Mary University of London, in collaboration with Sony CSL

I am currently a full-time PhD student in the UKRI Centre for Doctoral Training in Artificial Intelligence and Music. I am researching user-driven deep music generation for electronic music producers and DJs, under the supervision of Dr. Mathieu Barthet (QMUL) and Dr. Stefan Lattner (Sony CSL). This multidisciplinary research cuts across areas including deep learning for audio, computational creativity, human-computer interaction, and a range of music information retrieval and generation tasks.

MSc. by Research: Artificial Intelligence and Robotics **2018 – 2021**
Swansea University

I conducted research into the application of multi-modal deep reinforcement learning (RL) for multi-modal industrial robotic control for a real-world manufacturing task motivated by challenges in the aerospace manufacturing industry.

BSc. Hons. Computer Science: First Class, **2015 – 2018**
University of Liverpool

Employment

Chief AI Officer: *Mariposa AI* **2024**

Mariposa is a start-up developing a *slow-dating* app that provides a new first date each week and seeks to offer a kinder way of dating. I was primarily responsible for the research, development, and integration of AI-based features alongside other organisational matters as director.

Research Assistant: *ASTUTE, Swansea University* **2018 – 2023**

Contributing to the delivery of wide-ranging industry-led collaborative research, development, and innovation projects. I provided practical and theoretical expertise in Industry 4.0. research areas including robotics and automation systems, artificial intelligence, The Internet of Things (IoT), sensors, computer vision, human-computer interaction and more.

Skills

Languages: English (Native), French (Intermediate), Welsh (Intermediate)

Music: Self-taught electronic music producer and DJ of 13 years composing, producing, and mixing; releasing original music, sound design for games and visual media, and radio shows / DJ mixes

Published Works

- Presented and published technical works at venues including IEEE, AES, RecSys, KES, DMRN etc.