LANCELOT **BLANCHARD**

AI Researcher - Engineer - Musician
Imperial College London / MIT

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EDUCATION

2022 - 2023 — **Visiting Student - MIT Media Lab, Fluid Interfaces**

2022 - 2023 — **MRes AI & ML - Imperial College London**
• Supervised by Prof. Alessandra Russo and Prof. Pattie Maes.

2018 - 2022 — **MEng Computing (AI & ML), Imperial College London**
• Highest Honours (average 81.24%).
• Dean's List (Year 2, Year 4) and 2018 Entrance Scholarship.

2015 - 2018 — **French Scientific Baccalauréat with International Option (OIB)**
• Highest Honours (average 18.69/20).

2006 - 2018 — **Classical Piano and Music Theory, Conservatory of Rennes**

WORK EXPERIENCE & PROJECTS

Argument Assisstant from Dialogue (MRes Project)
Oct 2022 - Present
• Use Neurosymbolic AI to model human reasoning and analyse debates and debates expressed in natural language.
• Project supervised by Prof. Alessandra Russo (Imperial College London), and Prof. Pattie Maes and Valdemar Danry (MIT).

Living Memories (in review for IUI 2023)
Oct 2022
• Use Semantic Models, LLMs, and Generative AI to construct interactive and compelling digital mementos.
• Co-authored with Pat Pataranutaporn, Valdemar Danry, Lavanay Thakral, and Prod. Pattie Maes (MIT), and Misha Sra (UCSB).

Symbolic Music Genre Classification with Scalable Logic-based Learning (MEng Project)
Oct 2021 - Jun 2022
• Developed GenFastLAS, an automated logic-based learning system that can efficiently scale to large feature spaces.
• Applied it to the Genre Classification of Symbolic Music using novel Music Theory features.
• Received Distinction (86%), and currently writing a paper for IJCAI 2023.

Amazon UK - Business Intelligence Engineer
May 2021 - Sep 2021
• Worked as part of the Amazon Pan-EU Fashion Data & Analytics Team. Developed a full internal product to provide interactive action-orientated feedback to customers. Performed ad-hoc data analysis and wrote business reports.
• Worked with React and a wide-range of AWS services (notably Cloudformation, S3, Lambdas, RDS, Redshift, QuickSight)

Visual Flow-based Neural Network Builder - IVANN (Third Year Group Project)
Oct 2020 - Dec 2020
• Developed an Open Source Webapp which provides a Graphical Interface to generate Neural Networks coded in Python.
• Improved knowledge of AI and ML Python Libraries such as PyTorch, Scikit-Learn, and Tensorflow, as well as Full Stack skills.

Privitar - Software Engineer Intern
Jun 2020 - Sep 2020
• Worked as part of the API Team in order to implement complete APIs for both internal and external use cases.
• Worked with Java, Spring, and Hibernate for MySQL, PostgreSQL and Oracle databases. Also used Data tools such as Apache Hadoop, Apache Hive, Apache NiFi, and Apache Kafka.

DJ Synchronisation Technology - DJStreamr (Second Year Group Project)
Jun 2020
• Designed and implemented a brand-new technology to allow the synchronisation and livestreaming of remote DJ gigs.
• Practiced Full Stack skills using Typescript, HTML, CSS, and Vue.js on the Frontend, and Kotlin and AWS on the Backend.
• Gained interest of Music Tech companies (Native Instruments) and DJ labels (DEFECTED). Ranked 3rd best project overall.

SKILLS & INTERESTS

Computing
Python, Java, Kotlin, C, C++, Haskell, R, SQL, Vue.js, HTML, CSS, PHP, JS, TS, AWS, GCP, Scikit-Learn, PyTorch, Tensorflow

Languages
French (Native), English (Fluent), Italian, German

Music
Piano, Guitar, Production, Songwriting, Mixing, Sheet Writing, Synth Design

Sports
NYC Marathon Finisher

ADDITIONAL EXPERIENCE

ICR Production
Oct 2019 - Jun 2022
University Recording Studio & Label

• Managed a fully equipped recording studio and trained people to use the equipment with monthly workshops.
• Recorded bands, broadcasted live sessions on the University radio, and shared recorded music online.

Imperial College Data Science Society
Oct 2019 - Jun 2022
• Member and Teaching Assistant. Helped tutoring several concepts of Data Science, Artificial Intelligence, and Machine Learning.

SENSE
Mar 2016 - Present
Music Group signed with Nettwerk

• Develop business and machine learning strategies leading songs to the Top 10 charts in the Philippines and Top tier Playlists.