

# LANCELOT BLANCHARD

Student in MRes Artificial Intelligence & Machine Learning  
Imperial College London / MIT

## CONTACT

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## EDUCATION

2022

2023

### MRes AI & ML - Imperial College London / MIT

- 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 in Year 2.
- Awarded by the 2018 Entrance Scholarship for best application.

2015

2018

### French Scientific Baccalauréat with International Option (OIB)

- Highest Honours (average 18.69/20).
- Highest mark in Computing, Mathematics, and Philosophy.

2006

2018

### Classical Piano and Music Theory, Conservatory of Rennes

## WORK EXPERIENCE & PROJECTS

### Research Project in Artificial Intelligence and Cognitive Sciences (MRes Project)

2022 - Present

- Develop an automated system that can assist human users in their critical reasoning skills.
- Project supervised by Prof. Alessandra Russo (Imperial College London), and Prof. Pattie Maes and Valdemar Dunry (MIT).

### 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 a publication is currently being prepared.

### 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.

### AI Chess Player (First Year Group Project)

Jun 2019

- Developed a C Program that uses OpenCV to detect the state of a physical chess board using a phone's camera. State is processed by AlphaZero AI over SingularityNET to answer the best next move. Awarded Most Interesting Project Prize.

## 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

10k runner (personal best 43:41)

## 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.