

LANCELOT BLANCHARD

Musician - Engineer - AI Researcher
MIT Media Lab

CONTACT

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EDUCATION

2023 present	PhD in Media Arts & Sciences, MIT Media Lab <ul style="list-style-type: none">2024 MIT Presidential Fellow.Research in AI & Music at the Responsive Environments group.
2022 2023	MRes AI & ML, Imperial College London <ul style="list-style-type: none">Visiting student at Fluid Interfaces, MIT Media LabThesis: <i>Human-AI Co-Reasoning: Augmenting Human Debates with Interactive Neurosymbolic AI Systems</i>
2018 2022	MEng Computing (AI & ML), Imperial College London <ul style="list-style-type: none">Highest Honours, Dean's List and 2018 Entrance Scholarship.Thesis: <i>GenFastLAS: Scaling up the FastLAS system to large feature spaces, and application to Symbolic Music Genre Classification</i>
2006 2018	Classical Piano and Music Theory, Conservatory of Rennes





MAIN PROJECTS & PUBLICATIONS

Developing Symbiotic Virtuosity (Published in MIT Press, presented at AES 2024) <ul style="list-style-type: none">Work with GRAMMY-winning artist Jordan Rudess to build novel Human-AI Co-Created Live Music Performance.Optimize GPT2-based MIDI generation models for real-time interaction and implement diverse conditioning modalities.Recipient of MIT's Generative AI Impact Publication Grant (\$70K).	Sep 2023 - present
inHarmony: Community Belonging and AI Choirs (In Preparation for CHI 2025) <ul style="list-style-type: none">Use SOTA Singing Voice Conversion models (SVC, RVC) to develop interactive AI choirs.Study the impact of experience on sense of community belonging and social anxiety.	May 2023 - Present
Living Memories: AI-Generated Characters as Digital Mementos (Published at IUI 2023) <ul style="list-style-type: none">Used 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).	Oct 2022
Symbolic Music Genre Classification with Scalable Logic-based Learning (MEng Thesis) <ul style="list-style-type: none">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.Project supervised by Prof. Alessandra Russo. Received Distinction (86%).	Oct 2021 - Jun 2022

EMPLOYMENT HISTORY

Amazon UK - Business Intelligence Engineer <ul style="list-style-type: none">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)	May 2021 - Sep 2021
Privitar - Software Engineer Intern <ul style="list-style-type: none">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.	Jun 2020 - Sep 2020

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

Boston AI Music Meetup Organizer <ul style="list-style-type: none">Host monthly meetups for the AI Music community around the Boston area, with academic and industry expert speakers.Collect fundings from industry sponsors including Suno and Meta.	Aug 2024 - Present
Startup Founder - DJStreamr <ul style="list-style-type: none">Designed novel technology to synchronize and livestream remote DJ gigs.Gained interest of Music Tech companies (Native Instruments) and DJ labels (DEFECTED).	Jun 2020 - Sep 2020
Music Producer, Jazz Pianist <ul style="list-style-type: none">Totalled over 14M streams on streaming platforms.Reached Billboard's Top 10 in the Philippines and top tier playlists.Received MIT's Emerson/Harris Fellowship to be part of Jazz Ensemble.	Mar 2016 - Present