



## Malo Olivier

### Master of Science in Computing Sciences

- 28 November 2000
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## Education

- January 2024 : **M.Sc. at Stockholms Universitet, DSV, Department of Computer and Systems Sciences**
- 2020 to June 2024 : **M.Sc. at National Institute of Applied Sciences (INSA) of Lyon, in Computing Sciences**
- From 2018 to 2020 : **Intensive post-baccalaureate course to prepare students for entry into the Grandes Écoles**
- In 2018 : **Scientific Baccalaureate, specialty Engineering Sciences and Computing Sciences, obtained with highest honors**

## Languages

French native speaker

English level C1 Italian level B1

Spanish level B2 Russian level A2

## Programming languages & Skills

- Development : **Java, C, C++, TypeScript, React**
- Query : **SQL, JDBC**
- Data Processing & Deep Learning, **Python (Pytorch, Pytorch Lightning, Hydra, Hugging Face)**
- Frameworks & Execution Environment : **Maven, Quarkus, Hypersistence, Node.js**
- Design methods : **MERISE, UML SART, USDP, SOA**
- Networks : **OSI architecture, network management, security, firewall, DNS, VPN**

## Bibliography

- 1 Julien Hauret, Malo Olivier, Thomas Joubaud, Christophe Langrenne, Sarah Poirée, Véronique Zimpfer, and Éric Bavu. Vibravox: A general purpose database of speech captured with body-conduction microphones. July 17<sup>th</sup>, 2024.
- 2 Master's thesis defended january 31<sup>st</sup> 2024. Malo Olivier, Graduation project to design an intelligent speech transcription system for unconventional data [R&D]

## Work experience

- 2024 - Today **AI Research Engineer** started 4<sup>th</sup> november 2024 CNAM Paris & ISL
- 2023 - 2024 **Research assistant in EBEN project | VibraVox dataset [2]** from 8<sup>th</sup> september 2023 to 22<sup>nd</sup> january 2024 CNAM Paris
- Acoustics experiments and recording sessions for data collection
  - Monitoring, quality control and consistency of collected data
  - Python speech transcription project based on the CNAM EBEN project (Pytorch, Pytorch Lightning, Hydra, Hugging Face). Use of a tokenizer, evaluation metrics (Word Error Rate, Character Error Rate, Phoneme Error Rate, CTC cost function, transformer architectures) for S2T and S2P ASR tasks
  - Handling of Whisper from open AI and wav2vec2-large-xlsr- 53-english
  - Work integrated into the journal article presenting the VibraVox dataset [1]
  - High performance multi-GPU computation using IDRIS' Jean ZAY supercomputer
- 2023 **Technical consultant Java** from 15<sup>th</sup> may to 15<sup>th</sup> august 2023 BNP Paribas Paris
- Orchestrator pipeline maintenance and Gherkins/Cucumber testing
  - Ingestion pipeline maintenance and Gherkins/Cucumber testing
  - Specifications and documentation of accounting Information System
  - Acquisition of Business knowledge : accounting, finance, legal
  - Acquisition of Teradata knowledge : big data considerations and SQL language
- 2022 - 2023 **DevOps Engineer & FullStack Developer techstud.io associate** from 2<sup>nd</sup> november 2022 to 26<sup>th</sup> april 2023 on partial time onepoint Montréal, Canada
- Implementation and insertion of QA tests in GitLab/Jenkins pipeline for the Connect Building software of the National Bank of Canada (BNC) and the Espace Montmorency, by Montoni
  - FullStack development in Java with Quarkus & Maven and TypeScript with React
- 2022 **FullStack Developer** from 20<sup>th</sup> june to 19<sup>th</sup> august 2022 onepoint Montréal, Canada
- FullStack development, QA tests, modeling, Connect Building software specifications for the National Bank of Canada (BNC) and the Espace Montmorency, by Montoni
  - Agile development, Jira ticket management, Figma & Confluence specifications, UAT & production server installation on AWS Cloud
- 2021 **Business Analyst** from 1<sup>st</sup> july to 31<sup>st</sup> august 2021 Banque de France, Courbevoie
- Quotation of tax forms
  - Correction of stored data
  - Computation and measurement of France's balance of payment and international investment position