Mery Tom

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Employment History

Mar 2024 – Present
HARVARD MEDICAL SCHOOL

Visiting Researcher, Harvard Medical School, Boston, USA
Working on Multimodal LLMs for Healthcare individual-specific data.
- Supervised by *Prof. Chirag Patel*

Aug 2023 – Jan 2024
MERCURIA

Data Scientist Intern, Mercuria, Geneva, Switzerland
Developed a general framework to predict failures in ETRM systems from textual logs and performance metrics produced by the servers.
- Implemented unsupervised log parsing methods.
- Built data pipelines to automate the data extraction from Prometheus to AWS.
- Built a Dash app/api to visualize/retrieve the history of EOD workflows.

Sep 2022 – Nov 2023
EPFL VITA
HÔPITAL FONDATION Adolphe de ROTHSCHILD

Research Assistant, Visual Intelligence for Transportation (VITA), EPFL
Developed a monitoring application on an Apple Watch to prevent eye-rubbing using deep neural networks.
- Leveraged state-of-the-art capabilities of Transformer networks.
- Implemented iOS/WatchOS apps for data collection and real-time inference.
- Collaborated with Hôpital Fondation Adolphe de Rothschild, Paris.
- Presentation at SAFIR Congress 2023: Vimeo.
- Project supervised by *Prof. Alexandre Alahi*.

Sep 2021 – Jan 2023
EPFL

Teaching Assistant, Mathematics Section, School of Engineering, EPFL
Teaching during exercise sessions for Calculus I (3x), Calculus B, Programming for engineers, Mechanical construction I (2x), Mechanical construction II and Mechanical systems (8h to 15h per week).

Education

Spring 2024 — **Master's Thesis in Biomedical Informatics, Harvard University**, Boston, USA

2021 – 2024 — **M.Sc. Robotics & AI, EPFL**, Lausanne, Switzerland
GPA: 5.4/6 (current)
Artificial intelligence, Applied data analysis, Machine learning, Deep learning, Database systems, Computer Vision, Image processing, Pattern recognition

2020 – 2021 — **International Exchange Program, DTU**, Copenhagen, Denmark
Fluid mechanics, Quantum mechanics, Satellite geodesy, Electrical machines, Materials, Structures, Controls

2018 – 2020 — **B.Sc. Mechanical engineering, EPFL**, Lausanne, Switzerland
Calculus, Linear algebra, Mechanics, Thermodynamics, Electromagnetism, Dynamical systems, Programming

Skills

Languages — French (Native), English (C1), German (A2).

Coding — PYTHON (PYTORCH, NUMPY, PANDAS, SCIKITLEARN, OPENCV), SWIFT, MATLAB, C, SQL, GIT, DOCKER, HTML, CSS, JEKYLL, LATEX, MONGODB, AWS.

Hobbies — Soccer, Climbing, Hiking, Basketball, Piano, Chess, Poker.