Edouard Lacroix

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Education

Master in Computer Science, *EPFL* (Switzerland)   *2023 - 2025*
    Minor in Financial Engineering
- Focused on Agent Systems, NLP, Machine and Reinforcement Learning
- *Minor Focused on Investment & Stochastic Processes*

Bachelor in Computer Science, *EPFL* (Switzerland)   *2019 - 2023*
- Focused on Algorithms, Data Structures, and Theoretical Computer Science

French Scientific Baccalaureate, *LFB* (Spain)   *2019*
- Highest distinction

Schools

Middle, La Salle Passy Buzenval (France)	*2012 - 2018*
Elementary, franco-argentine Jean Mermoz (Argentina)	*2007 - 2012*
French School of Prague (Czech Republic)	*2003 - 2007*

Experience

Master Thesis, *EPFL* , *STMicroelectionics* (Italy)   *2025*

   An Agent System Approach to Silicon Wafer Defect Map Classification Using ViT
- *Conducted a state-of-the-art literature review on agent system components (perception, cognition, memory, tools, communication, learning)*
- *Applied Vision Transformers (ViT) for defect map classification*

Student Organization, *EPFL* (Switzerland)

   Co-Founder of La Miellerie (music production organization at EPFL-UNIL)   *2023 - 2025*
- *Managed sponsorship, marketing, and event teams*
- *Organized concerts for audiences of 100+ attendees*

   IT Officer for the Entrepreneur Club of EPFL-UNIL   *2023*
- *Implemented process automation and maintained the organization's website*

Selected Projects

Interactive World Map of Spotify Charts:
- Built an interactive web visualization of global Spotify charts by country, genre, and artist, including a timeline of trends

Reinforcement Learning Actor for Wind Turbine Blade Pitch Control (EPFL UNFoLD Lab):
- Developed a simulated environment and trained an actor-critic agent for optimal blade pitch control

Multi-Factor Equity Portfolio Strategy:
- Designed a portfolio integrating multiple factors to enhance risk-adjusted returns

Skills

Languages	**Python, Scala, Java**, Kotlin, C, Assembly, SQL, VHDL
Frameworks	**Pytorch**, Spark, Tensorflow, Numpy, Transformers, Scikit-learn, Pandas
Tools	**Git** (GitHub, GitLab), Docker, Dataiku, Jupyter Notebooks, Notion, LaTeX, Typst

Interests

- **Music** (production, live performances incl. HEC Graduation 2023) • **Sports** (Tennis: FFT 15/1 & interclub competition; Football: international tournaments; Ski: Flèche d'Or) • **3D** (Spline, Blender)

Languages

- **French** (native) • **English** (C1, professional proficiency) • **Spanish** (C1, fluent) • **Italian** (A2, basic)