Henri CHEVREUX

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EDUCATION

Sep 2026 – Aug 2029 | **Imperial College London** | **London, UK**
PhD in Artificial Intelligence
Research in neuro-symbolic AI and mechanistic interpretability, under the supervision of Dr. Eleonora Giunchiglia

Sep 2024 – May 2026 | **École Polytechnique, Institut Polytechnique** | **Paris, France**
MSc in Artificial Intelligence and Advanced Computer Vision
Ranked 1st Artificial Intelligence postgraduate program in France (Eduniversal 2024, 2025)
Core modules: Advanced Deep Learning, 3D Computer Vision, Large Language Models, Soft Robots, Autonomous Systems
Notable achievements:
- Research Project: "*Investigating the Impact of Distillation on Editability in Diffusion Models*" - Achieved top project grade
- Winner of the École Polytechnique Foundation Prize 2025 for Best Research Internship

Sep 2020 – Aug 2024 | **King's College London (KCL)** | **London, UK**
***BSc in Computer Science with a Year in Industry* - Final Grade: Highest Honours**
Core modules: Mathematics for Engineers; Foundation of Computing; Signals and Systems; Data Structures
Dissertation: "*Artificial Intelligence: analysing discourse with argumentation theory*" (grade: 77%)

WORK EXPERIENCE

May 2026 – Aug 2026 | **Pelico** | **Paris, France**
GenAI Engineer Internship - Agentic Systems
- **Agentic Workflows:** Built tooling for generating agentic workflows from natural language requirements.
- **LLM Evaluation:** Worked on the evaluation (Evals) methodology and infrastructure for LLM-based agents.

April 2025 – Aug 2025 | **ASML** | **Veldhoven, NL**
R&D Internship - Graph Neural Networks for Semiconductors
- Developed custom Graph Neural Networks (Vision GNN, GAT) using PyTorch Geometric and Lightning for overlay optimization in semiconductors.
- Applied domain-driven loss function regularization and perturbation-based explainability (GNNExplainer) for enhanced accuracy and interpretability.

Sep 2023 – May 2024 | **King's College London (KCL)** | **London, UK**
Teaching Assistant
- Lead group tutorials for 100+ students across "*Data Structures*" and "*Software Engineering*" modules.
- Developed labs, supplementary learning materials, and provided one-on-one academic support.

Jul 2022 – Jul 2023 | **Oracle** | **Cambridge, UK**
Rotational Intern
- Machine Learning Research - Implemented Word2Vec and BERT models for multilingual embedding across 18 languages.
- Backend Development - Built efficient data pipelines in *Python* and *Golang* for Cloud-based AI model training.
- Frontend Development - Created taxonomy tree visualisation using *React*, *Angular*, and *TypeScript*.

Sep 2021 – May 2024 | **MathWorks** | **London, UK**
MATLAB & Simulink Ambassador
- Hosted events across London (e.g. "Transfer Learning in MATLAB"; "Deep Learning Poker in MATLAB").
- Facilitated workshops and academic talks on cutting-edge developments in technology and the engineering industry.

LEADERSHIP EXPERIENCE

Sept 2023 – July 2024 | **King's Business Club (KBC)** - Executive board member of the largest business and finance society in the UK.
President of *King's Labs*, a tech consultancy project of *KBC*: recruit associates; source clients, and coordinate activities' general progression. Projects include the development of an LLM-based sleep schedule recommender.

Nov 2020 – Jun 2022 | **KCL Machine Learning Society - Head of Technology** - Hosted events on multiple topics of cutting-edge machine learning developments, such as "Genetic Algorithms" and "Graph VAE".

SKILLS, CERTIFICATIONS & INTERESTS

Deep Learning & AI
PyTorch, TensorFlow,, Lightning, JAX, CUDA, Graph Neural Networks, Computer Vision, LLMs, Diffusion, RLHF, Quantization

Programming Languages
Python, PyTorch, Java, Golang, MATLAB, C, C++

Development Tools
Elasticsearch, Excel, Pyspark, GitHub, Jenkins, Airflow, Hadoop, Cassandra, MongoDB, Kubernetes

Languages
French: Native **English**: Fluent **Mandarin**: Intermediate (HSK2: 185/200)

Certifications & Interests
Public Speaking: presented *King's Labs* to a room of 160+ participants; attended *Toastmasters International* training sessions;
Completed *Wimbledon Common Half Marathon 2023* for Alzheimer's Research UK; Mountaineering & Alpinism
Rowing: Participated in the French University Indoor Rowing National Championship 2024 (individual + team competition)