

Sang Huynh

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Education

Université du Québec à Montréal

PhD Candidate in Mathematics

Sep 2026 – Aug 2030

Supervisor: Professor Arthur Charpentier

- Research topic: Optimal Transport Methods and Their Applications in Insurance.

Institut de Science Financière et d'Assurances

Bachelor's and Master's in Actuarial Science

Sep 2023 – Sep 2026

Lyon, France & Hanoi, Vietnam

- **Actuarial Examination:** MAS-II, MAS-I, FM/2, P/1.
- Graduate-level coursework: Credibility theory, Non-life Pricing and Reserving, Stochastic Simulation, Risk Theory, Quantitative Risk Management, Survival Analysis, and Life Actuarial Mathematics.

Hanoi University of Science and Technology (HUST), Hanoi, Vietnam

Bachelor's in Data Science (Transferred)

Sep 2021 – Aug 2023

Hanoi, Vietnam

- Relevant coursework: Introduction to Machine Learning, Optimization and Operations Research, and Introduction to Software Engineering.

Professional Experience

Lya Protect

Actuarial Product Analyst (Apprenticeship)

Sep 2025 – Sep 2026

Lyon, France

French insurtech providing advanced CRM and marketplace solutions tailored for insurance brokerages.

- Setup and test pricing and quotation tools for 20+ health and homeowner insurance products, tailored to 5 major wholesale broker accounts (*grands comptes*).
- Standardized coverage guarantees for 100+ Life & Health and Property & Casualty retail insurance products to power a broker comparison tool, and engineered an AI-driven automation solution that reduced processing time by 75%.
- Assessed the technical impact of regulatory changes (2026 evolution of 100% Santé, annual indexation updates, and collective agreement changes) on existing tools and products, and established a streamlined framework to facilitate future compliance updates.

Sun Life Vietnam

Data Science Intern

Aug 2023 – Nov 2023

Ho Chi Minh City, Vietnam

Vietnamese life insurance subsidiary of Sun Life Financial, a Canadian financial services group.

- Initiated and prototyped an NLP-driven compliance tool to transcribe policyholder verification calls, applying sentiment analysis and automated Q&A to detect non-compliant sales practices and ensure customer product awareness.
- Researched vector databases, RAG architectures, and table extraction techniques to support a chatbot proof-of-concept, leveraging early large language models for information extraction and querying in life insurance documents.

Research Experience

Awards

- **CAS Trust Scholarship**, Casualty Actuarial Society Trust – Competitive international scholarship recognizing commitment to the P&C actuarial profession; US\$5,000.
- **Sun Bright Scholarship**, Sun Life Vietnam – Selected for this competitive talent program; university scholarship followed by a paid internship.

Technical Skills

Programming

Python, R, C++, Java

Operations Research

CPLEX, Gurobi, OR-Tools

Data Science / Machine Learning

pandas, tidyverse, scikit-learn, PyTorch

Languages

English, French, Vietnamese

References

Prof. Arthur Charpentier

Current PhD Advisor, UQAM

Antoine Paulet

Former Manager, Lya Protect