RÉSUMÉ

Simon-Pierre Boucher



Professor — Department of Administrative Sciences

Université du Québec en Outaouais (UQO), Gatineau — Pavillon Alexandre-Taché

ACADEMIC simon-pierre.boucher@uqo.ca PERSONAL contact@spboucher.ai WEB www.spboucher.ai

CODE git.spboucher.ai LANGUAGES French and English (bilingual)

PROFILE

Professor in the Department of Administrative Sciences at Université du Québec en Outaouais (UQO). Research in financial econometrics, commodity markets, monetary policy announcements, high-frequency finance, volatility modelling, textual analysis, financialization, and housing-market measurement. Completing a Ph.D. in Business Administration (Finance and Insurance) at Université Laval under the supervision of Prof. Marie-Hélène Gagnon and Prof. Gabriel J. Power. Alongside academic work, builds native macOS and iOS applications focused on AI and local language models, and open web platforms for financial and housing-market analytics.

ACADEMIC POSITIONS

Present — **Professor — Department of Administrative Sciences**
Université du Québec en Outaouais (UQO), Gatineau

2021 – Present — **Lecturer**
Université Laval, Québec City

2018 – 2021 — **Teaching Assistant**
Université Laval, Québec City

EDUCATION

2020 – Present — **Ph.D. in Business Administration (Finance and Insurance)**
Université Laval — supervisors: Prof. Marie-Hélène Gagnon and Prof. Gabriel J. Power

2017 – 2019 — **M.Sc. in Business Administration (Finance)**
Université Laval

2013 – 2017 — **B.B.A. in Business Administration (Finance)**
Université Laval

PEER-REVIEWED PUBLICATION

2025 — **Speculative Trading in Energy Markets: Evidence from Macroeconomic Surprises**
Boucher, S.-P., Gagnon, M.-H., & Power, G. J. — *The Energy Journal*

PH.D. THESIS CHAPTERS

2025 — 1. **Speculative Trading in Energy Markets: Evidence from Macroeconomic Surprises**
Published in The Energy Journal (2025)

2026 — 2. **Seeing Through the ETF: Indicative NAV and Commodity Volatility Transmission**
Submission version, Journal of Futures Markets

2026 — 3. **Returns and Volatility Around FOMC Announcements: A High-Frequency Analysis of Policy Tone and Novelty**
Submitted to the Journal of International Money and Finance (October 2026)

BOOKS

2026 — **Évaluation immobilière résidentielle et multirésidentielle au Québec — Fondements, méthodes et applications avancées**
Working version 0.1 · November 2026 · 1,933 pp. · 48 chapters

2026 — **Atlas des ajustements immobiliers au Québec — Estimations hédoniques et catalogues d'ajustements par marché résidentiel**
Reference document, IMM1003 · November 2026 · 593 pp. · 63 chapters

UQO WORKING PAPER SERIES

31 working papers, 2,588 pages in total, each presented in its revised version after a multi-stage quality control (203 reports, 2,854 points checked); 18 are posted on SSRN. Full texts: www.spboucher.ai/research

Real Estate & Urban Economics (14) · Finance & Economics (14) · AI Systems (2) · Research Methods (1)

Most recent

No. 41 Multi-Resolution Context in Intraday Probabilistic Return Forecasting: A Pre-Registered, Matched-Budget Measurement on 300 U.S. Instruments: CHRONOS-X: a Multi-Resolution Patch Transformer against matched baselines, 5 to 60 minutes ahead, 2018–2025 v1.1 · November 2026 · 82 pp.

No. 40 RAID: A Metal-Accelerated C++ Framework for Reproducible High-Frequency Financial Econometrics: Batched and Fused Estimation on Apple Silicon: Precision, Break-Even Points and Inference v1.1 · November 2026 · 62 pp.

No. 39 The Invisible Balance Sheet: Can Intraday Financial Markets Detect Corporate Deterioration Before Accounting Disclosures? v1.1 · November 2026 · 74 pp.

No. 38 The Economic Geography of Digital Retail Supply: Product Diversity, Regional Specialization, and the Hidden Structure of Quebec's Online Economy: Evidence from 370,054 product listings of 1,557 Quebec online stores (regional inference: 298,362 listings of 1,331 located stores in 17 administrative regions; Fabri-Ka snapshot, 1 November 2026) v1.1 · November 2026 · 84 pp.

No. 37 The Hidden Architecture of Grocery Prices: Promotions, Retail Competition, and the Cost of Living in Quebec: What 300,613 posted-price events from 54 Quebec grocery feeds identify when the store is unobserved, August–November 2026 v1.1 · November 2026 · 69 pp.

TEACHING

Professor — Université du Québec en Outaouais (UQO)

IMM1003 Éléments d'évaluation immobilière · IMM1033 Méthodes du coût

Teaching platforms designed and built for the UQO courses: www.uqo-eval.app, www.uqo-imm1003.app, www.uqo-imm1033.app

Lecturer — Université Laval (2021 – Present)

GSF-3100 Capital Markets · GSF-6053 Financial Econometrics I · GSF-1500 Financial Management · GSF-6028 Financial Theory

SOFTWARE

Designed, built and operated alone, with public source code on a self-hosted git forge (git.spboucher.ai) and production hosting on a personal Apple Silicon cluster.

Native macOS applications (9): Zyquo Cloud, Zyquo Local, Zyquo Agent, Zyquo Atlas, Zyquo MLX, Zyquo Router, OS Vault, Metrika, Forge Studio.

Native iOS applications (5): Prisme, Poche, Focale, Vrai-Prix iOS, Lou·Ka iOS.

Web platforms and open source (42): VQuant, AI Risk Index, CoinExplorer, LLM Index, Lou-Ka, Vrai-Prix, ValoPlex, QHPI, HF Market Data, HFChart, Tendril, KHAELOR, and 30 more.

Groupe Ka (www.groupe-ka.com) — an ecosystem of data platforms for Quebec, 18 public platforms: Lou·Ka, Immo·Ka, Vrai-Prix, House·Ka, Rent·Ka, Auto·Ka, Job·Ka, Food·Ka, Resto·Ka, Fabri·Ka, Sorti·Ka, Créa·Ka, Trouve·Ka, API·Ka, Ka·Stats, ka2, ka4, ka6.

TECHNICAL SKILLS

Languages & frameworks: Python, TypeScript/JavaScript, R, MATLAB, SAS/STATA, SQL, Julia, C++, Swift/SwiftUI, LaTeX, React/Next.js, Node.js, FastAPI, Flask, Streamlit, Tailwind CSS, shadcn/ui, Framer Motion.

Data & econometrics: Pandas, NumPy, statsmodels, scikit-learn, VAR, BVAR, HAR, GARCH, DCC-GARCH, Event studies, High-frequency analysis, Realized volatility, Hedonic models, Quantile regression, XGBoost + SHAP, FRED, FMP, EODHD, Yahoo Finance, World Bank, IMF, OECD.

AI, LLMs & agents: Claude/Anthropic SDK, OpenAI API, OpenRouter, Vercel AI SDK, Ollama, llama.cpp, GGUF, MLX, Hugging Face, Embeddings, RAG, Vector databases, Tool-augmented agents, LoRA, QLoRA, SFT fine-tuning.

Updated November 2026 · Complete curriculum vitae and all documents: www.spboucher.ai/cv