

BRAM SILUE

✉ bram.silue@vub.be

📁 EMPLOYMENT

Artificial Intelligence Lab Brussels

DOCTORAL RESEARCHER

Brussels, BE

2023 – Now

- Developing novel reinforcement learning algorithms with enhanced sample efficiency for multi-objective decision-making within computationally intensive stochastic models.

🎓 EDUCATION

Doctor of Philosophy (PhD) in Machine Learning

VRIJE UNIVERSITEIT BRUSSEL

Brussels, BE

2023 – Now

Master of Science (MSc) in Engineering – Computer Science

VRIJE UNIVERSITEIT BRUSSEL

Brussels, BE

2020 – 2023

- Honors: *magna cum laude*.
- Cumulative GPA: **4.0/4.0**.
- Field of study: Artificial Intelligence.

Bachelor of Science (BSc) in Engineering – Electronics & IT

VRIJE UNIVERSITEIT BRUSSEL

Brussels, BE

2016 – 2022

📖 PUBLICATIONS

Efficient Bayesian Ultra-Q Learning for Multi-Agent Games

W. GAUDERIS, F. DENOUDT, B. SILUE, P. VANVOLSEM, A. ROSSEAU

London, UK

MAY 2023

Adaptive and Learning Agents Workshop (ALA)

🏆 COMPETITIONS

Optiver Challenge, HACKTHEBURGH 2024: 1st place out of 20 teams. 

🔗 NOTABLE PROJECTS

Algorithmic Market Maker

SKILLS: PYTHON (NUMPY, MATPLOTLIB), SQL

- Implemented simulations and visualizations of a market maker using the Avellaneda-Stoikov high-frequency trading model. This involved creating an algorithm for setting bid and ask prices while taking into account inventory management and risk, all simulated under dynamic market conditions using Brownian motions stored in an SQLite database.

👤 PROFILE OVERVIEW

Technology: Python, Git, Unix, L^AT_EX.

Languages: English (fluent), Dutch (native), French (native), German (intermediate).

Personal Interests: Music Production, Automotive Industry, Fitness, Horology, Investing.

Professional Interests: Quantitative Trading, Machine Learning, Software Engineering, Research.