

# BRAM SILUE

✉ [bram@silue.dev](mailto:bram@silue.dev)    [www.silue.dev](http://www.silue.dev)

## 📁 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**.
- Published 1 peer-reviewed paper. [📄](#)

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

VRIJE UNIVERSITEIT BRUSSEL

Brussels, BE

2016 – 2022

## 🏆 COMPETITIONS

### Optiver Challenge – 1st place [📄](#)

THE UNIVERSITY OF EDINBURGH

Edinburgh, UK

MAR 2024

- Developed a trading system in Python that competes against 20 other teams. The system employs a market-making strategy and leverages sentiment analysis through machine learning to execute directional trades in anticipation of market movements triggered by news.

## 🔗 NOTABLE PROJECTS

### Algorithmic Market Maker [📄](#)

SKILLS: PYTHON (NUMPY, MATPLOTLIB), SQL

- Simulated and visualized a market maker using the Avellaneda-Stoikov high-frequency trading model. This involved setting bid and ask prices while managing inventory risk. The simulations ran under dynamic market conditions using Brownian motions stored in an SQLite database.

## 👤 PROFILE OVERVIEW

**Technology:** Python, Git, Unix,  $\text{\LaTeX}$ .  
**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.