

Lucas Ahou

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About Me

Engineering student with a Bachelor in Applied Mathematics and Computer Science. I am currently pursuing a Master's degree in Applied Mathematics at UCLouvain, with a growing interest in applying analytical and computational methods in the field of neuroscience — a direction I hope to continue pursuing further.

My master's thesis, supervised by Pr. Crèvecoeur (IoNS/ICTEAM, UCLouvain), investigates how the sensorimotor system adapts reaching control when visual feedback is artificially delayed, building on the lab's optimal feedback control framework for modelling state estimation and control under sensory delay.

Experience

UCLouvain (IoNS), Summer Intern

June 2026 – July 2026

- Automatization of PETSURFER's pipeline in the context of PET scans and biomarkers analysis for Alzheimer's disease
- Developed a Python script and a TUI tool to facilitate the use of PETSURFER's pipeline for researchers

N-SIDE S.A., Summer Intern

July 2025 – Aug 2025

- Worked on the development of a supply chain algorithm in the context of clinical testing

UCLouvain (ICTEAM), Research Intern

July 2024 – Aug 2024

- Worked on the development of a Python package for an optimization method recommendation algorithm in the ICTEAM with Pr. François Glineur and Dr. Sofiane Tanji

Education

Erasmus+ Exchange, KTH Royal Institute of Technology

Aug 2026 – Jan 2027

- Participating in the Erasmus+ exchange program at KTH Royal Institute of Technology in Stockholm, Sweden

MEng in Applied Mathematics, UCLouvain

Sept 2025 – Present

- Currently pursuing a Master's degree in Applied Mathematics at UCLouvain

BEng, UCLouvain

Sept 2022 – June 2025

- Majors in Computer Science and Applied Mathematics
(Average: 16.5/20)

Technical Skills

Areas of Specialization: Applied Mathematics, Mathematical Modelling, Numerical Methods, Fast Implementations

Programming: Python (Fluent), C/C++ (Fluent), Java (Intermediate), Rust (Beginner), TypeScript (Beginner), Golang (Beginner)

Others: OpenCL, Docker, Version Control (Git), SQLite, Python Packages (NumPy, SciPy, Pandas, Matplotlib)

Grants & Awards

HackYeah 2024: Biggest Hackathon in Europe Sept 2024

- First place at Europe's biggest stationary hackathon in the cybersecurity task

4× Placements 2023-2024

- 1st and 2nd place at CECI-BEST 24h hackathons (3rd and 2nd editions), 3rd place at CECI-BEST 1st edition and at a Louvain-li-Nux gamejam

Projects

🔗 PETSurfer Pipeline

- Automatization of PETSurfer's pipeline in the context of PET scans and biomarkers analysis for Alzheimer's disease

🔗 LBVH GPU

- GPU-accelerated LBVH tree construction for fast particle collision detection

🔗 Other Projects

- Many other projects including course projects covering topics such as optimization, efficient programming, numerical methods, mathematical modelling, etc. as well as diverse personal ones

Languages

French (Native), English (C1), Dutch (A2), Aramaic (A2)