Nathan **Cloos**

32, Rue du Clozin
4970 Stavelot
Belgium

+32 478 20 89 04
cloosnathan@gmail.com
https://nacloos.github.io/

Education

2020 - present **M.Sc. Mathematical Engineering** Universtité Catholique de Louvain, Belgium

2017 - 2020 **B.Sc. Engineering** Universtité Catholique de Louvain, Belgium
Major: Applied Mathematics - Minor: Physics

Research Experience

August 2021 - present **Research Internship** Massachusetts Institute of Technology, USA
Building integrative computational models that are quantitatively compared with multiple experimental brain datasets
Advisor: Robert Yang

Present **Master Thesis Project** Universtité Catholique de Louvain, Belgium
Recurrent neural networks to study the neural implementation of optimal feedback control
Advisor: Frédéric Crevecoeur

Selected Talks

March 2022 **Cosyne poster** Lisbon, Portugal
High-throughput evaluation of recurrent neural networks on multiple datasets

December 2021 **Neuromatch Conference live talk** Online
On the modulatory role of the PFC in solving simple cognitive tasks

Professional Experience

Summer 2021 **Teaching Assistant at Neuromatch Academy** Neuromatch
Helped a dozen students to study computational neuroscience

2019 - 2020 **Teaching Assistant in Algebra** Universtité Catholique de Louvain, Belgium
Organized exercise sessions for a group of 24 first-year students

2018 - 2019 **Developer, Student Job** Ficos S.A., Luxemburg
Programmed python scripts for clients
Worked on a product prototype

Summer Schools

Summer 2020 **Student at Neuromatch Academy** Neuromatch
Three-week online summer school on computational neuroscience

Summer 2020 **RegML** University of Genova, Italy
One-week online summer school on regularization methods for machine learning

Awards and Scholarships

2021 **Scholarship from the Lhoist Berghmans Chair** UCLouvain
Scholarship for a three-month internship in a lab at MIT

Extracurricular Achievements

2019 **Second runner-up in a Data Science Hackathon** NRB and UCLouvain
Developed a model that predicts the production of solar panels

2016-2017 **Represented Belgium at the European Cansat competition** ESA Education
Developed a 3D printed small satellite that was launched 1km high
Coded the data reception program and the user interface

2015-2016 **Winner of Cansat Belgium** Innoviris, Belgium
Year-long team project
Qualified for the European competition