

# Orjan Ameye

*Master Student in Physics*

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in OrjanAme



## Education

- 2020–Present **Academic Master**, *KU Leuven*, Belgium  
Master of Physics: Option Theoretical Physics
- 2017–2020 **Academic Bachelor**, *KU Leuven*, Belgium  
Major: Physics | Minor: Mathematics
- 2011–2017 **High School**, *Berthoutinstituut-Klein Seminarie*, Belgium  
Science and Mathematics

## Experience

### Research

- 2021–Present **Master thesis**, *Quantum Solid-State Physics*, KU Leuven, Pol Van Dorpe, Niels Verllen and Dmitry Kouznetsov  
Master thesis titled “Quantum path integral Monte Carlo simulation of ultracold atoms in a quasiperiodic optical lattice”. It entails a numerical study of ultracold atoms in quasiperiodic optical coherent lattices with a Monte Carlo method based on the path integral representation of quantum mechanics.
- Summer 2021 **Research internship**, *Institute for Theoretical Physics*, KU Leuven, Joseph Indekeu and Jonas Berx  
Theoretical study of the traveling wave solution of the Fisher–KPP equation by using an iteration sequence based on the BLUES (Beyond Linear Use of Equation Superposition) function method for nonlinear partial differential equations.

### Teaching

- 2018–Present **StudAnt**, *Teaching Organization*, Antwerpen  
Tutorteacher employed by StudAnt for high school and university level courses.

### Engagement

- 2019–Present **KU Leuven**, *Student representative*  
Student representative on a variety of boards and committees such as: permanent education commission (POC) of Physics, education faculty board (FPOC) of the Faculty of Science and Faculty of Science group and board of internationalisation, etc.
- 2019–Present **Scientica OOR**, *Overarching student Education Council – Faculty of Science*, KU Leuven  
President, secretary and collaborator of the student organisation which represents overlook the educational needs of the students at the Faculty of Science (KU Leuven).

2018–2020 **Wina Leuven vzw**, *Student Organisation Physics/Mathematics*, KU Leuven  
Collaborator in Wina Leuven vzw, the student organisation representing and organising activities for student in Mathematics, Physics, Informatics, etc.

## Hard Skills

### Program languages

**Mathematica** ●●●●●

**Julia** ●●●●●

**Python** ●●●●●

**Matlab** ●●●●●

### Verbal languages

**Dutch** Mother Tongue

**English** Writing ●●●●● Speaking ●●●●●

**French** Writing ●●●●● Speaking ●●●●●

**German** Writing ●●●●● Speaking ●●●●●

## Recreational Activities

○ Ultimate Frisbee

○ Philosophy

○ Trail Hiking

○ Reading