



# Orjan Ameye

*PhD student in theoretical physics*

## Education

- 2022–Present **PhD in theoretical physics**, *University of Konstanz*, Germany  
2020–2022 **M.Sc. in theoretical physics**, *KU Leuven*, Belgium  
2017–2020 **B.Sc. in physics**, *KU Leuven*, Belgium, Minor in Mathematics

## Experience

### Research

- 2021–2022 **Master thesis**, *Quantum Solid-State Physics*, KU Leuven  
Master thesis titled “*Path Integral Monte Carlo Simulation of Superfluid Ring Lattices: Building Quantum Devices with Optical Landscapes*”. It entails a numerical study of ultracold atoms in optical coherent lattices with a Monte Carlo method based on the path integral representation of quantum mechanics.  
*Supervisors*: Pol Van Dorpe, Niels Verellen and Dmitry Kouznetsov
- Summer 2021 **Research internship**, *Institute for Theoretical Physics*, KU Leuven  
Theoretical study of the travelling 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.  
*Supervisors*: Joseph Indekeu and Jonas Berx

### Teaching

- 2018–2022 **StudAnt**, *Teaching Organization*, Antwerpen  
Tutorteacher employed by StudAnt for high school and university level courses.

### Engagement

- 2019–2022 **Student representative**, *Faculty of Science*, KU Leuven  
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.  
President, secretary and collaborator of the *Overarching student Education Council* 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

- Long-distance running
- Trail Hiking
- Philosophy
- Reading