

Education

Thibeau Wouters

curriculum vitae

2022 – now	Master of Artificial Intelligence, KU Leuven.
2020 – 2022	Master of Theoretical Physics , KU Leuven, 91.41% summa cum laude with congratulations of the Board of Examiners.
2017-2020	Bachelor of Physics, KU Leuven, 74.42% cum laude.
2017-2020	Bachelor of Mathematics, KU Leuven, 73.92% cum laude.
2011–2017	Latin-mathematics, Sint-Ursula-Insituut, OLVWaver, cum Laude.
	Projects & theses
title	Holographic RG flows in gauged supergravity
supervisor	Nikolay Bobev
summary	Master thesis of physics studying the applications of AdS/CFT in four-dimensional supergravity theories. (PDF) (presentation)
title	Supersymmetric black holes and the black hole attractor mechanism
supervisor	Antoine Van Proeyen
summary	Exam report on supersymmetric black holes and black hole attractors as solutions to supergravity theories. (PDF) (presentation)
title	Spatiotemporal coordination of the cell divison cycle
supervisors	Lendert Gelens, Daniel Ruiz Reynés
summary	Research internship investigating the behaviour of spiral wave and target wave phenomena via simulations and dynamical systems theory. (PDF)
title	On Quantum Harmonic Oscillators, Modularity and Algebraic Number Theory
supervisor	Valentin Reys
summary	Physics bachelor thesis on modular forms and their appearance in theoretical physics, such as quantum mechanics, quantum field theory and conformal field theory. (PDF)
title	On Algebraic Geometry and the 27 Lines on Smooth Cubic Surfaces in $\mathbb{C}P^3$
supervisor	Feng Hao

summary Mathematics bachelor thesis on an introduction to algebraic geometry and proof that every smooth cubic surface in $\mathbb{C}P^3$ contains 27 lines. (PDF)

Experience

Vocational

2022 – now **Tutor**, *Spring-stof (URL)*.

Tutoring group sessions of cognitively strong children and teenagers (age 5-18) with tailor-made education, and developing original course material.

2021 – now **Tutor**, *Slaagsleutels (URL)*.

Tutoring one-on-one lessons, from high school to university students, and preparing students for the entry exams of medicine and dentistry.

2020 – 2022 Teaching Assistant and Student Developer, KU Leuven (URL).

Revising and expanding the *General Physics III* course material, including recording screencasts (2020). Expanding the mathematics (2020) and chemistry (2022) summer school material for new bachelor students in an online LaTeX-environment. Teaching exercise classes to first year bachelor students for the courses *General Physics I* and *Mathematical proofs and reasoning* (2020) and *Biophysics* (2021). Assisting the mathematics and physics exercise sessions of the summer school (2022).

2019 – now **Tutor**, *Studant (URL)*.

Tutoring one-on-one physics and mathematics lessons of various levels, from high school to university students.

2015 – 2019 **Student employee**, *Delhaize*, Keerbergen.

All-round employee, including cashier and centre store.

Miscellaneous

2021 Completed teaching assistant training, KU Leuven.

Completed the teaching assistant training at the Faculty of Science of KU Leuven.

2020 Peer Assisted Learning tutor, KU Leuven.

PAL tutor for the Quantum Mechanics physics course.

2019 – 2020 Volunteer, Pangaea & Home Vesalius.

Welcoming new international students and organizing events in student residence.

Languages & Computer skills

Awards

- o KU Leuven Physics prize 2022: highest grade among physics master students.
- o 2nd place Flemish Astronomy Olympiad 2017 (see article).
- o 1st place Flemish Astronomy Olympiad 2016 (see article).

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