



Thibau Wouters

curriculum vitae

Education

- 2022 – now **Master of Artificial Intelligence**, *KU Leuven*.
- 2020 – 2022 **Master of Theoretical Physics (minor: nuclear 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*, OLV Waver.

Projects & theses

- title *Holographic RG flows in gauged supergravity*
supervisor Nikolay Bobev
summary Physics master thesis studying the applications of AdS/CFT in gauged 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 division cycle*
supervisors Lendert Gelens, Daniel Ruiz Reynés
summary Research internship investigating wave phenomena in cell cycle oscillations via simulations and dynamical systems theory. ([PDF](#)) ([presentation](#))
- title *On Quantum Harmonic Oscillators, Modularity and Algebraic Number Theory*
supervisor Valentin Reys
summary Physics bachelor thesis. ([PDF](#))
- title *On Algebraic Geometry and the 27 Lines on Smooth Cubic Surfaces in \mathbb{CP}^3*
supervisor Feng Hao
summary Mathematics bachelor thesis. ([PDF](#))

Leuven – Belgium

✉ thibauwouters@gmail.com • 🌐 thibauwouters.github.io
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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 screen-casts (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**, *Student* ([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*.
- 2020 **Peer Assisted Learning tutor**, *KU Leuven*.
PAL tutor for the *Quantum Mechanics* physics course.
- 2019 – 2020 **Volunteer**, *Pangaea & Home Vesalius*.
Welcoming new students and organizing events in international student residence.

Languages & Computer skills

Dutch	● ● ● ● ●	\LaTeX	● ● ● ● ○
English	● ● ● ● ○	Python	● ● ● ● ○
French	● ● ○ ○ ○	Matlab	● ● ○ ○ ○

Awards

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

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