

# Thibeau Wouters

# curriculum vitae

## Education

2022 – now	Advanced N	Master of	Artificial	Intelligence,	KU Le	euven.
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- 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	Advancing gravitational wave simulations with machine learning				
supervisors	Tjonnie Li, Johan Suykens				
summary	Al master thesis investigating machine learning techniques to speed up existing GRMHD simulations of neutron stars. (work in progress)				
title	Holographic RG flows in gauged supergravity				
supervisor	Nikolay Bobev				
summary	Physics master thesis studying an application of the AdS/CFT correspondence 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 divison cycle				
supervisors	Lendert Gelens, Daniel Ruiz Reynés				
summary	Research internship investigating wave phenomena in cell cycle oscillations via HPC 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 $\mathbb{C}P^3$				
supervisor	Feng Hao				
summary	Mathematics bachelor thesis. (PDF)				

#### Leuven – Belgium

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# Experience

## Vocational

	Vocational					
2022 – now	Tutor, Spring-stof (URL).					
	<ul><li>Tutoring groups of cognitively strong chi</li><li>Developing original, tailor-made education</li></ul>		- ( - )			
2021 - now	Tutor, Slaagsleutels (URL).					
	<ul><li>Private tutoring of high school and university</li><li>Preparing students for the entry exams of</li></ul>	-				
2020 - 2022	Teaching Assistant and Student Developer, KU Leuven (URL).					
	• Revising and expanding the <i>General Physics III</i> course material, including recording screen-casts and lab videos (2020).					
	• Expanding the mathematics (2020) and chemistry (2022) summer school material for incoming bachelor students in an online LATEX-environment.					
	• Teaching exercise classes to first year bac Mathematical proofs and reasoning (202	helor stud 0) and <i>Bi</i>	ents for the courses <i>General Physics I, ophysics</i> (2021).			
2010	• Teaching the mathematics and physics ex	xercise ses	isions of the summer school (2022).			
2019 – now	<b>Tutor</b> , <i>Studant (URL)</i> . Private tutoring of high school and university students.					
2015 - 2019						
	All-round employee, including cashier and centre store.					
	Miscellaneous					
2022	Volunteer, Mobile School.					
	Organising and helping at a walk to raise m	noney to h	elp street kids around the world.			
2022 - 2023	<b>Student representative</b> , <i>KU Leuven</i> . Member of committee responsible for the quality of education of the master AI program.					
2021	Completed teaching assistant training, KU Leuven.					
2020	<b>Peer Assisted Learning tutor</b> , <i>KU Leuven</i> . PAL tutor for the <i>Quantum Mechanics</i> physics course.					
2019 - 2020	Volunteer, Pangaea.					
	Welcoming new students and organizing evo	ents in int	ernational student residence.			
	Languages & Computer skills					
Dutch	••••	₽T <sub>E</sub> X	$\bullet \bullet \bullet \bullet \circ$			
English	$\bullet \bullet \bullet \bullet \circ$	Python	$\bullet \bullet \bullet \bullet \circ$			
French	$\bullet \bullet \circ \circ \circ$	Java	$\bullet \bullet \bullet \circ \circ$			
	Awarda					

#### Awards

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

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