

# Tobias Pieter Göbel

Amstelkade 53-1, Amsterdam

+31683894072 | [tobiaspietergobel@gmail.com](mailto:tobiaspietergobel@gmail.com) | [tobiasgobel](https://www.linkedin.com/in/tobiasgobel)



## Personal Profile

I am a 25-year-old graduate with an MSc in Artificial Intelligence, and I am currently pursuing a second Master's degree in Theoretical Physics at the University of Amsterdam (UvA). From a young age, I have been fascinated by the natural sciences, drawn to the elegance and explanatory power of physics and mathematics. Over time, this passion naturally extended into the realm of artificial intelligence, where I became intrigued by the capabilities of machine learning and deep learning to model complex systems.

My interest in AI has grown not only from a computational or technical standpoint, but also from a theoretical perspective—particularly in understanding how these methods intersect with fundamental scientific questions. This dual academic path allows me to explore both rigorous physical theory and cutting-edge computational techniques, and I am especially motivated by opportunities that bridge the two fields, such as physics-informed machine learning, statistical mechanics in neural networks, and computational approaches to quantum field theory.

## Education

### Universiteit van Amsterdam

Amsterdam, NL

MSc in Theoretical Physics

Sep 2020 - June 2025

- Passed courses include: Quantum Field Theory, Quantum Field Theory extension, General Relativity and Machine Learning for physicists.
- The final thesis of the program "*Tackling Topological Freezing with Normalizing Flows*" combined my knowledge of ML and physics.

### Universiteit van Amsterdam

Amsterdam, NL

MSc in Artificial Intelligence (**cum laude**)

Sept 2022 - June 2024

- Graduated with **8.2 GPA**. The final thesis on "*On Conformally Equivariant Convolutional Networks*" was graded an 8.5, and is available [here](#).
- Relevant courses: Machine learning, Deep Learning, Reinforcement Learning, Computer vision and Natural Language processing.

### University of British Columbia

Vancouver, Canada

Minor Physics

Sept 2019 - Jan 2020

- Minor abroad in Vancouver, Canada.
- With a focus on Computational Physics and Particle Physics.

### Universiteit Leiden

Leiden, NL

BSc in Physics (**cum laude**)

Sept 2017 - Jun 2020

- Graduated with **8.5 GPA**. Participated in an extracurricular "*Advanced theory-track*" and the final thesis "*On the Physics of Trotterization*" in the field of Quantum Computing was awarded a **9.0/10**. The thesis can be viewed [here](#).
- Perfect scores (**10.0/10.0**) on Electromagnetic Fields 1 & 2, Classical Mechanics 2, Complex Analysis, Quantum Mechanics 2 and Solid State Physics.

## Work Experience

### Junior developer

Amsterdam, NL

Next Human

Dec 2024 - now

- Student developer implementing AI tools for public services in the Netherlands.

### Tutor

Amsterdam, NL

De Bijlsmester

Sept 2018 - Aug 2023

- As I enjoy to explain science to others as clearly as I can, I tutored high school students besides my studies, teaching mathematics, physics and chemistry.

### Freelance software developer

Amsterdam, NL

Nes Vastgoed | Storybun | Portengen Grond- en Waterwerken

Sept 2019 -

- During my studies I also took on several software related projects, including building an Excel based dashboard, websites and a back-end architecture for online book customization.

## Interests

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- Traveling** I like to experience new things, to be in nature and to explore foreign countries.
- Guitar** Although I am not the best guitarist, I still like to spend time playing.
- Sports** In some sense, I am addicted to sports. I specifically like cycling, speed-skating, football, tennis, running and padel.
- Carpentry** I have always loved crafting things and usually have some projects going on. Currently I am restoring a small rowing boat.

## Languages

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- Human** Dutch (Native), English (Professional proficiency)
- Computer** Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), MatLab, Shell(Bash/Zsh),  $\text{\LaTeX}$ , Git, PHP, HTML/CSS.