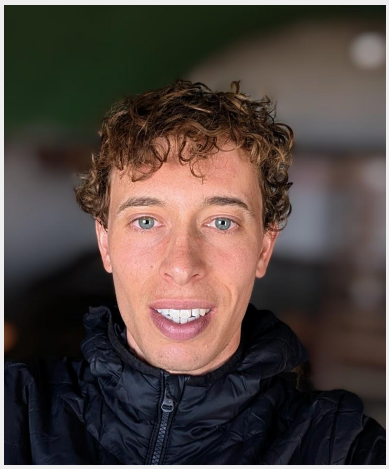

Niels Fontijne

Personal Details

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Languages

English
Dutch

Hobbies

Camping
Bikepacking
Hiking
Running
Science

References

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I am Niels, and driven by a passion for understanding systems – both human and technological – I pursued **Master's degrees in Artificial Intelligence and Human Movement Sciences**, which I completed with a **9 and 10** for my theses.

I bring well-developed research qualities, creative problem-solving abilities and a multidisciplinary approach to design innovative solutions. Moreover, I consistently achieve results where others might quit. Does this sound interesting? Read on!

Experience

Publication & Presentator – ALIFE Conference Tokyo 2025 – Oct. 2025

My Master thesis on Evolutionary Robotics was selected for publication and presentation at a Google-sponsored conference, which is a significant achievement in the field.

Research Assistant – VU Amsterdam – Sep. 2022 - June 2024

I was working as an independent researcher, continuing the work I started during my Master thesis and the INEOS internship on modelling of human body temperatures. The work led to an inhouse thermophysiological model.

Internship – INEOS Grenadiers Cycling Team – Feb. 2022 - Sep. 2022

Developing a thermophysiological model that was used to convince staff and rider of the importance of thermoregulation during a world-hour record attempt.

Education

MSc. Artificial Intelligence – VU Amsterdam – 2022-2024

- Cum Laude & GPA 8.9/10.0.
- **Thesis** in Evolutionary Robotics. Grade 9.0/10.0.
- **Competitions:** 1st (Evolutionary Computing) and top 5 (Data Science)

Broad program that covers a diverse set of Artificial Intelligence fields, such as Deep Learning, NLP, Evolutionary Computing etc.

BSc. & MSc. Human Movement Sciences – VU Amsterdam – 2018-2024

- 2 x Cum Laude & GPA 8.8/10.0 and GPA 8.7/10.0
- **Thesis:**
  - Thesis on predicting illness of cyclists. Grade 9.5/10
  - Thesis on predicting human body temperatures. Grade 10/10.

Education that targets all aspects of human movement, ranging from physiology and neuroscience up to biomechanical analysis and data science. I specialized in research in high performance environments.

Skills

Python	Data Pricing	Numpy
R	Data Natural Language	Optuna
Matlab	Data Robot Simulation	Pandas
html	Data Body temperature	pgmpy
Research	Data Voxel	Pyplot
Computational Modeling	Data Heart rate	Scikit
Physiology	Data Breathing gas	Seaborn
Machine Learning	Data Lactate	Pymoo
Deep learning	LightGBM	Pytorch
Evolutionary Algorithms	Matplotlib	Sympy
DAS-computer cluster	Mediapipe	SQL
Bash scripts	MuJoCo	XGBOOST
Excel	NEAT	
SPSS	Networkx	
Github	nltk	
Latex	Numba	