



# Michal Tešnar

Zürich, Switzerland

✉ michal.tesnar007@gmail.com

☎ +41 784 41 32 32

🐙 GitHub Profile

🌐 LinkedIn Profile

## PERSONAL PROFILE

I have a passion for optimizing everything that can be optimized: from my daily routines to robot trajectories. I am the luckiest person, since I was born in an era when we do just that with AI. I love talking to people and learning languages: apart from my mother tongue (Czech) and the languages in which I studied (C1: English, Dutch), I also learned German and Spanish (B1), and now starting Russian (A1). I will be super happy if you talk to me in any of those!

## EDUCATION

### •Master of Science in Data Science

September 2024 – Present

ETH Zürich, Switzerland

GPA: 5.6/6

- Coursework: Probabilistic Artificial Intelligence, Big Data, Mathematics of Data Science, Machine Perception, Soccer Analytics
- Specialization: Robotics (Dynamic Programming and Optimal Control, Planning & Decision Making for Autonomous Robots)

### •Bachelor of Science in Artificial Intelligence

September 2021 – June 2024

University of Groningen, Netherlands

GPA: 9.3/10

- Holistic degree combining computer science, machine learning, psychology, philosophy, and ethics of AI.
- Extra courses in Mathematics: Linear Algebra, Calculus, Graph Theory, Analysis, Optimization.
- Participated in ICPC Algorithmic Programming Contests on an international stage.
- Extracurricular Honours Programme (45 ECTS): deepening research projects in robotics, broadening horizons by taking courses from different faculties.

## WORK EXPERIENCE

### •Research Assistant – part-time

February 2025 – Present

Oracle Labs Switzerland

Zürich, Switzerland

- I am working on applications of reasoning models in agentic framework used in internal products of Oracle.

### •Software Engineer – part-time

February 2024 – June 2024

ASML Netherlands

Veldhoven, Netherlands

- I developed and tested factory automation and integration software, which prevents human errors, and thereby decreases iteration time of development.

### •Teaching Assistant – part-time

September 2023 – June 2024

University of Groningen

Groningen, Netherlands

- I taught an extracurricular course Algorithmic Programming Contests which is focused on preparing a small class of students to become competitive programmers.

## RELEVANT PROJECTS

### •Faster Than Verstappen: Optimal Racing Using Model Predictive Control

October 2022 – June 2023

Research Project at Honours College of Rijksuniversiteit Groningen

- I implemented a control algorithm for path-planning of track drive of a formula race car.
- I used MATLAB to create a simulation and optimization algorithm. A report and the project repository are [here](#).

## PUBLICATIONS

### •Modeling of AUV Dynamics with Limited Resources: Efficient Online Learning Using Uncertainty

Published in OCEANS: pre-print available [here](#)

2025

## ACHIEVEMENTS & SCHOLARSHIPS

### •Jong Talent Prijs, KHMW award for best performance in first-year of bachelor's degree

November 2022

### •TKKF University Scholarship, Financial support for talented students abroad

2022 – 2024