

Mahbod Tajdini

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 [mahbodtajdini](#) |  [Ace3Z](#)

Zürich, Switzerland



EDUCATION

- **Universität Zürich & ETH Zürich** Sep 2025 - Aug 2028
MSc in Data Science (ETH Zürich: Special Student) Zürich, Switzerland
 - GPA 5.4/6; expected graduation Aug 2028.
- **Vrije Universiteit Amsterdam** Sep 2022 - Jul 2025
BSc in Artificial Intelligence, cum laude (Top 8%) Amsterdam, Netherlands
 - GPA 8.5/10 (= 4.0); minor in Data Science; Year Representative for the BSc AI programme.

RESEARCH EXPERIENCE

- **ETH Zürich - Computer Vision and Geometry Lab (CVG)**  Mar 2026 - Present
Graduate Student Researcher Zürich, Switzerland
 - Developing a deep visual SLAM system that stays robust in dynamic scenes, using motion-aware tracking to cleanly separate the static scene from moving objects and map each as a consistent 3D instance over time. Supervised by Dr. Dániel Béla Baráth.
- **EPFL - Signal Processing Laboratory (LTS4)**  Feb 2026 - Present
Visiting Student Researcher Lausanne, Switzerland
 - Developing a self-supervised graph foundation model for histopathology, constructing cell- and superpixel-level graphs enriched with pathology vision foundation models and advancing edge-feature modeling, batch-effect robustness, and parameter-efficient fine-tuning for generalizable tissue representations. Supervised by Dr. Cédric Vincent-Cuaz.
- **ETH Zürich - Ecosystem and Landscape Evolution Group (ELE)**  Mar 2026 - Jul 2026
Research Assistant Zürich, Switzerland
 - Supported WildInSync, a global biodiversity-monitoring initiative combining environmental DNA, remote sensing, and AI.
- **VU Amsterdam - Sports Intelligence Lab (SIL)**  Jun 2025 - Mar 2026
Research Assistant Remote
 - Data-driven research with Dr. Mauricio Verano Merino applying data-driven approaches to investigate key topics in computer science and sports analytics..
- **Forward Football**  Sep 2024 - Jun 2025
AI Research Intern Amsterdam, Netherlands
 - Developed ML models on large-scale spatiotemporal tracking data to quantify player interactions and derive data-driven tactical insights for professional football.

WORK EXPERIENCE

- **Stealth Startup**  Jun 2026 - Present
Member of Technical Staff Zürich, Switzerland
 - Developing a multi-device Visual-Inertial SLAM pipeline that merges tracking data across a 3-rig egocentric system (head + two wrists) for high-precision 6-DoF pose recovery.
- **ETH Robotics Club (ETHRC) - Aeronautics**  Apr 2026 - Present
Perception Engineer Zürich, Switzerland
 - Developing the perception stack (VIO, gate detection, sensor fusion) for autonomous high-speed FPV racing drones.

PUBLICATIONS

- **Capitalising on Football Data with Machine Learning: A Literature Review.** D. Kyriazopoulos, **M. Tajdini**, M. Verano Merino. *ACM Computing Surveys (CSUR)*, 2026 (accepted).
- **The Clash of Codes: From Peer-to-Peer Duplication to AI-Generation in Introductory Programming Assignments.** J. M. Z. R. Claver*, **M. Tajdini***, M. Verano Merino. *ICSE 2026 (SEET Track)*.
- **Programming Lego MINDSTORMS Robots using NI LabVIEW.** P. Nayyeri, **M. Tajdini**. Open-access eBook, 2022.

SELECTED PROJECTS

- **LeMonkey: Language-Conditioned Robot Manipulation** [🌐] *Feb 2026 - May 2026*
 - Fine-tuned SmoVLA-450M into a Vision-Language-Action policy for language-conditioned pick-and-place on the SO-101 arm; trained with behavior cloning and HG-Dagger and evaluated on visual grounding, compositional instructions, and out-of-distribution generalization. With Microsoft Spatial AI Lab and CVG.

TEACHING EXPERIENCE

- **Universität Zürich - Dept. of Informatics** [🌐] *Sep 2025 - Dec 2025*
Head Teaching Assistant, Informatics I Zürich, Switzerland
 - Led the TA team and teaching operations for Informatics I (22AINF02) under Prof. Dr. Harald Gall and Dr. Carol Alexandru.
- **ETH Zürich - Ecosystem and Landscape Evolution Group (ELE)** [🌐] *Jan 2026 - Jun 2026*
Teaching Assistant, Environmental Systems Data Science: ML Zürich, Switzerland
 - TA for Environmental Systems Data Science: Machine Learning (701-3003-00L) under Prof. Dr. Loïc Pellissier and Dr. Camille Pierre Albouy.
- **Vrije Universiteit Amsterdam - Faculty of Science** [🌐] *Apr 2023 - Jun 2025*
Head Teaching Assistant & Teaching Assistant Amsterdam, Netherlands
 - TA and mentor across 10+ Computer Science and AI courses.

SELECTED HONORS & AWARDS

- BSc in Artificial Intelligence, VU Amsterdam, graduated *cum laude* (Top 8% of cohort) *Jul 2025*
- *3rd place*, Datathon by Analytics Club at ETH, Switzerland's largest ML hackathon *Apr 2026*
- *4th place*, Anthropic Hackathon by the Claude Builder Club of ETH Zürich *Mar 2026*
- Back-to-back national gold medals, World Robot Olympiad (WRO), Iran *2018 & 2019*
- *Top 25% worldwide (1st in Iran)*, Canadian Computing Competition (CEMC) *Dec 2020*
- International Baccalaureate Diploma, *Top 3% worldwide* *May 2022*

LEADERSHIP & SERVICE

- **Hack4Good Organizing Staff**, [Analytics Club at ETH Zürich](#) *Nov 2025 - Present*
- **Executive Staff**, [European Student Robotics Association \(ESRA\)](#) *Nov 2025 - Mar 2026*
- **Voting Member**, [Program Committee \(BSc AI\)](#), [VU Amsterdam](#) *Oct 2022 - Jun 2025*
- **Captain**, [Student Robotics Team](#), [University of Tehran](#) *Jan 2017 - Nov 2019*

TECHNICAL SKILLS

- **Programming:** Python, C++, CUDA, SQL
- **Tools:** Git, Docker, Weights & Biases, \LaTeX
- **Languages:** English (fluent), Persian (fluent), French (conversational), German & Dutch (basic)