

Education

European University Institute

PHD IN POLITICAL AND SOCIAL SCIENCES

- Supervisors: Kevin Munger, Arnout van de Rijt

Florence, Italy

2025 - present

New York University

MASTER THESIS AT NYU'S CENTER FOR SOCIAL MEDIA AND POLITCS (CSMAP)

- Visit of 4 months for the Master's thesis: "What Drives Toxic Comments on TikTok? Examining the Link Between Videos and Comments Using Machine Learning". Grade: 6/6

New York, United States

02/2025 - 05/2025

University of Zurich

MASTER OF ARTS IN SOCIAL SCIENCES, POLITICAL SCIENCE

- Track: Democracy, Development and International Relations. Average grade: 5.78/6

Zurich, Switzerland

2022 - 2025

ETH Zurich

MSc ROBOTICS, SYSTEMS AND CONTROL

- Focus on nonlinear system modeling and model predictive control. Average grade: 5.84/6

Zurich Switzerland

2021 - 2024

Imperial College London

EXCHANGE YEAR (SEMP), MENG ELECTRICAL AND ELECTRONIC ENGINEERING

- Focus on multi-agent systems, optimization and machine learning. Average grade: A

London, United Kingdom

2021 - 2022

ETH Zurich

BSc MECHANICAL ENGINEERING

- Focus Specialization: Engineering for Health. Average grade: 5.71/6

Zurich, Switzerland

2018 - 2021

Professional Experience

- 09/2024-12/2025 **Research Assistant**, with Daniele Caramani, Department of Political Science, University of Zurich
Topic modeling, deep learning and LLM classifiers, data collection (web scraping) and visualisation.
- 08/2024-02/2025 **Research Assistant**, with Johannes Köhler, Institute for Dynamic Systems and Control, ETH Zurich
Preparation for the publication of my master's thesis on learning-based model predictive control
- 02/2023-02/2025 **Workshop Instructor**, GirlsCodeToo
Creation and teaching of a weekly programming course for girls between 9 and 12 years old
- 09/2024-01/2025 **Teaching Assistant**, Department of Political Science, University of Zurich
Preparation and teaching of weekly exercise sessions for the course "Political Systems and Theories"
- 01/2024-08/2024 **Research Assistant**, with Isabelle Guinaudeau, Department of Political Science, University of Zurich
Development of a pipeline for the automated identification of social group mentions in newspapers
- 10/2023-01/2024 **Research Assistant**, with Robert Katzschmann, Soft Robotics Lab, ETH Zurich
Independent research and preparation of a journal paper
- 04/2023-09/2023 **Intern**, Short-term network modeling, Swissgrid
Development, testing, and deployment of an optimization application used in the grid control room
- 09/2022-03/2023 **Head Teaching Assistant**, "Engineering Mechanics", ETH Zurich
Presentation of colloquia in front of over 200 students, preparation of lectures, exercises and exams
- 2020-2021 **Teaching Assistant**, "Dynamics" and "Mechanics II", ETH Zurich
Teaching of weekly exercise sessions for 20-30 students in "Dynamics" and "Mechanics II"

Publications

PEER-REVIEWED

M. Scott, **M. Dubied**, J. Pitt. November 2022. *Social Motives and Social Contracts in Cooperative Survival Games*. International Workshop on Coordination, Organizations, Institutions, Norms and Ethics for Governance of Multi-Agent Systems (COINE).

M. Dubied, M. Y. Michelis, A. Spielberg, R. K. Katzschmann. April 2022. *Sim-to-Real for Soft Robots using Differentiable FEM: Recipes for Meshing, Damping, and Actuation*. IEEE Robotics and Automation Letters (RA-L).

UNDER REVIEW

M. Dubied, P. Tiso, R. K. Katzschmann. November 2025. *AquaROM: An Optimisation Pipeline for Soft Swimmers Using Nonlinear Parametric Reduced Order Models*. Available on arXiv.

M. Dubied, A. Lahr, M. Zeilinger, J. Köhler. July 2025. *A Robust and Adaptive MPC Formulation for Gaussian Process Models*. Available on arXiv.

WORK IN PROGRESS

S. Šarenkapa, I. Guinaudeau, E. Deiss-Helbig, **M. Dubied**, R. Heiberger, T. Matthieß. *Measuring Discursive Constructions of Social Categories in the Press*. Presented at the European Political Science Association (EPSA) 2025 annual conference.

M. Dubied, B. Guinaudeau, K. Donnay, J. A. Tucker. *What Drives Toxic Comments on TikTok? Examining the Link Between Videos and Comments Using Machine Learning*.

M. Dubied, H. Subtil. *The Global Laws Dataset*.

Awards, Scholarships, and Grants

Academic

- 2025 **Merit Scholarship for Research Stay Abroad**, Vincent Merkle Foundation, 5'000CHF
- 2023 **Werner Siemens Fellowship**, Werner Siemens-Stiftung, 19'200CHF
- 2021 **SEMP Scholarship**, ETH Zurich, 3'800CHF
- 2021 **Merit Annual Scholarship**, Swiss Study Foundation, 20'000CHF
- 2020 **Nomination for the “Outstanding Teaching Assistant Award”**, D-MAVT, ETH Zurich
- 2019 **Member of the Swiss Study Foundation**, Swiss Study Foundation
- 2019 **Winner of the “Innovation Project”**, PDZ, ETH Zurich
- 2013 **Sciences Prize**, Cycle d'Orientation Sarine-Ouest

Non-academic

- 2025 **SATW Grants for Member Organisations**, Swiss Academy of Engineering Sciences SATW, project “Robotic Arm x GenAI” by GirlsCodeToo, 5'000CHF
- Financial aid for projects on gender equality in the workplace**, Swiss Federal Office for Gender Equality FOGE, project “Printed by Code: Girls & Women Shaping Ideas” by GirlsCodeToo, 200'000CHF
- 2024 **Selected Pitch**, ETH Sustainable Development Goals Pitch Event
- 2024 **Nomination for the ETH “Diversity Award”**, nominated for the work at GirlsCodeToo
- 2005-2019 **Various prizes in swimming competitions**

Volunteering and Services

- 2024-present **Board Member and Treasurer**, GirlsCodeToo
- 2023-present **Active Member**, GirlsCodeToo
- 2022-present **Secondary School Delegate**, Swiss Study Foundation
- 2026 **Reviewer**, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
- 2025, 2026 **Reviewer**, IEEE Transactions on Robotics (T-RO)
- 2024 **Reviewer**, IEEE International Conference on Robotics and Automation (ICRA)
- 2023-2025 **Council Member**, University of Zurich Student Association (VSUZH)
- 2024 **Reading Group Organizer**, Swiss Study Foundation
- 2015-2019 **Webmaster**, Fribourg Natation 1925
- 2016-2017 **High school student committee**, Collège Sainte-Croix, Fribourg
- 2015-2017 **Team Captain**, Fribourg Natation 1925

Conferences, Workshops, and Summer Schools

- 02/2026 **GESIS Panel.dbd Insight Days**,
Workshop on Panel.dbd web-tracking data by GESIS Leibniz Institute for the Social Sciences
- 11/2025 **Digital Democracy Workshop 2025**,
Single track conference organized by the Digital Society Initiative at the University of Zurich
- 07/2025 **Tableau de la Suisse: Switzerland's Model of Success**,
Summer school of the Swiss Study Foundation (1 week)
- 09/2023 **Urban Forests – for Sustainable, Liveable and Healthy Cities**,
Summer school of the Swiss Study Foundation (1 week)
- 08/2023 **Music, Computation and the Mind**,
Summer school of the Swiss Study Foundation (1 week)

- 03/2022 **The Politics of Youth Representation at the United Nations,**
Spring school of the German Study Foundation (1 week)
- 09/2021 **Fundamental Questions of State Theory and State Philosophy in the Early 21st Century,**
Summer school of the Swiss Study Foundation (1 week)

Skills

Languages French (native), English (C1), German (C1), Swiss German (B2), Italian (A2)
Softwares Python, Matlab, R, C++, Git, GitHub, Go, PSSE, Gurobi, PyTorch, CasADI, Comsol, NX, LaTeX, TikZ

Interests and Hobbies

Technical and scientific topics, politics, history and environment.

Mountaineering (member of the Swiss Alpine Club), climbing, rowing, hiking, reading, tinkering, sewing cool clothes.