

Education

European University Institute

PHD RESEARCHER IN POLITICAL AND SOCIAL SCIENCES

- Supervisors: Kevin Munger, Arnout van de Rijt

Florence, Italy

Sep 2025 - present

New York University

RESEARCH VISIT AT NYU'S CENTER FOR SOCIAL MEDIA AND POLITICS

- 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

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

Publications

PUBLISHED

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, A. Lahr, M. Zeilinger, J. Köhler. July 2025. *A Robust and Adaptive MPC Formulation for Gaussian Process Models*. Submitted to Automatica and 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, P. Tiso, R. K. Katschmann. *AquaROM: An Optimisation Pipeline for Soft Swimmers Using Nonlinear Parametric Reduced Order Models*.

Awards, Scholarships, & Grants

- 2025 **Merit Scholarship for Research Stay Abroad**, Vincent Merkle Foundation, 5000CHF
- 2024 **Nomination for the ETH “Diversity Award”**, nominated for the work at GirlsCodeToo
- 2024 **Selected Pitch**, ETH Sustainable Development Goals Pitch Event
- 2023 **Werner Siemens Fellowship**, Werner Siemens-Stiftung, 19200CHF
- 2021 **SEMP Scholarship**, ETH Zurich, 3800CHF
- 2021 **Merit Annual Scholarship**, Swiss Study Foundation, 20000CHF
- 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
- 2005-2019 **Various prizes in swimming competitions**
- 2013 **Sciences Prize**, Cycle d’Orientation Sarine-Ouest

Volunteering and Services

- 10/2024-present **Reviewer**, IEEE International Conference on Robotics and Automation (ICRA)
- 06/2024-present **Board Member and Treasurer**, GirlsCodeToo
- 06/2023-present **Active Member**, GirlsCodeToo
- 04/2022-present **Secondary School Delegate**, Swiss Study Foundation
- 10/2023-02/2025 **Council Member**, University of Zurich Student Association (VSUZH)
- 08/2024-12/2024 **Reading Group Organizer**, Swiss Study Foundation
- 09/2015-08/2019 **Webmaster**, Fribourg Natation 1925
- 09/2016-08/2017 **High school student committee**, Collège Sainte-Croix, Fribourg
- 09/2015-08/2017 **Team Captain**, Fribourg Natation 1925

Additional Training (Selection)

- 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++, Go, PSSE, Gurobi, PyTorch, CasADI, Comsol, Abaqus, NX, LaTeX, TikZ

Interests and Hobbies

Technical and scientific topics, politics, history and environment.

Mountaineering (member of the Swiss Alpine Club), climbing, swimming, hiking, reading, tinkering and cooking.