

Anna M. Maddux

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EDUCATION

École Polytechnique Fédérale de Lausanne (EPFL) Feb 2022 – Present

PhD in Multi-agent learning

- PhD supervisor: Maryam Kamgarpour

Eidgenössische Technische Hochschule Zürich (ETHZ) Sept 2019 – May 2021

M.S. in Statistics

- Master's Thesis: "Behaviour Estimation in Dynamic Games" (<https://www.researchcollection.ethz.ch/handle/20.500.11850/485983>)
- Courses: Fundamentals of Mathematical Statistics, Optimization for Data Science, Advanced Machine Learning, Computational Statistics

Albert Ludwig University of Freiburg Oct 2015 – March 2019

B.S. in Mathematics

- Bachelor's Thesis: "Symmetric Random Walks and a Generalization of the Borel-Cantelli Lemma"

Albert Ludwig University of Freiburg Oct 2013 – Feb 2019

B.S. in Economics

- Bachelor's Thesis: "Hyperparameter Optimization of Neural Networks: Grid Search versus Random Search"

RESEARCH AND WORK EXPERIENCE

ETH Zürich | *Research Assistant* Oct 2021 – Dec 2021

Computational Social Science (COSS) Group under the Supervision of Dirk Helbing

ETH Zürich | *Research Assistant* May 2021 – July 2021

Automatic Control Laboratory (IfA) Group under the Supervision of Florian Dörfler

Daimler Benz Stuttgart | *Data Science Intern* April 2019 – Aug 2019

Advanced Analytics and Big Data Group

German Bundestag Berlin | *Research Intern* Jan 2019 – Feb 2019

Supervisor: Dr. Christoph Hoffmann, Member of the German Parliament

FELLOWSHIPS

Accenture Female Talent Program March 2020 – Oct 2020

Mentoring program to promote females in STEM and economics

Fellow of the Friedrich Naumann Foundation for Freedom Oct 2017 – May 2021

Academic scholarship throughout my undergraduate and graduate studies (held by 1% of German university students)

PUBLICATIONS

* authors contributed equally; + mentored student

CONFERENCE AND JOURNAL PUBLICATIONS

Anna M Maddux, Maryam Kamgarpour. Multi-Agent Learning in Contextual Games under Unknown Constraints. Artificial Intelligence and Statistics Conference (AISTATS), 2024.

Gabriel Vallat⁺, Jingwen Wang, **Anna M Maddux**, Maryam Kamgarpour, Stefana Parascho. Reinforcement learning for scaffold-free construction of spanning structures. ACM Symposium on Computational Fabrication (ACM SCF), 2023.

Anna M Maddux, Nicolò Pagan, Giuseppe Belgioioso, Florian Dörfler. International Federation of Automatic Control (IFAC), 2023.

PROFESSIONAL ACTIVITIES, LEADERSHIP, AND SERVICE

CONFERENCE AND WORKSHOP ORGANIZATION

Workshop Organizer, Workshop on Entrepreneurship and Innovation | *Beatenberg, Switzerland* April 2024
Junior retreat of the NCCR Automation

PEER REVIEW

International Federation of Automatic Control (IFAC), European Control Conference (ECC)

TEACHING

UNIVERSITY COURSES

Teaching Assistant, Multi-Agent Learning and Control | *EPFL Lausanne* Spring 2024
Teaching Assistant, Foundations of Artificial Intelligence | *EPFL Lausanne* Fall 2023
Teaching Assistant, Foundations of Artificial Intelligence | *EPFL Lausanne* Fall 2022
Teaching Assistant, Analysis 2 | *ETH Zürich* Spring 2020
Teaching Assistant, Microeconomics 1 | *Albert Ludwigs University of Freiburg* Fall 2016
Teaching Assistant, Microeconomics 2 | *Albert Ludwigs University of Freiburg* Spring 2016
Teaching Assistant, Microeconomics 1 | *Albert Ludwigs University of Freiburg* Fall 2015

SCIENCE EDUCATION

Presentation at the Kantonsschule Beromünster | *Beromünster, Switzerland* Feb 2024
Presentation under the NCCR Automation initiative "A researcher in my class".

MENTORING

Sabri El Amrani, Semester Project | *EPFL Lausanne* Oct 2023 - Jan 2024
Co-supervision with Andreas Schlaginhaufen (EPFL), and Maryam Kamgarpour (EPFL).

Dana Afazeli, E3 Summer Internship | *EPFL Lausanne* Jun 2023 - Sept 2023
Co-supervision with Kai Ren (EPFL), and Maryam Kamgarpour (EPFL).

Titouan Renard, Master Project | *EPFL Lausanne* Feb 2023 - July 2023
Co-supervision with Andreas Schlaginhaufen (EPFL), Tingting Ni (EPFL), and Maryam Kamgarpour (EPFL).

Riccardo Ruzza, Bachelor Project | *EPFL Lausanne* Feb 2023 - June 2023
Co-supervision with Giulio Salizzoni (EPFL), and Maryam Kamgarpour (EPFL).

Julien Gouraud, Bachelor Project | *EPFL Lausanne* Feb 2023 - June 2023
Co-supervision with Giulio Salizzoni (EPFL), and Maryam Kamgarpour (EPFL).

Gabriel Vallat, Master Project | *EPFL Lausanne* Feb 2023 - July 2023
Co-supervision with Maryam Kamgarpour (EPFL), and Stefana Parascho (EPFL) Resulting paper accepted at ACM 2023.

Dorsa Majdi, E3 Summer Internship | *EPFL Lausanne* Feb 2023 - July 2023
Co-supervision with Maryam Kamgarpour (EPFL).

LANGUAGES

Computer Languages: Python, Matlab, L^AT_EX

Languages: German (mother tongue), English (fluent), French (B1)