

Arsam Aryandoust

arsam@mit.edu | www.mit.edu/~arsam

PROFESSIONAL EXPERIENCE

Massachusetts Institute of Technology (MIT)

Postdoctoral Researcher at Laboratory for Information and Decision Systems (LIDS)
Department of Electrical Engineering and Computer Science (EECS)
Advised by Priya Donti

Oct 2023 – present
Cambridge, USA

EDUCATION

Massachusetts Institute of Technology (MIT)

Advanced Study Program
Mathematics & Electrical Engineering and Computer Science

Sep 2024 – present
Cambridge, USA

Eidgenössische Technische Hochschule (ETH Zurich)

Doctoral Studies in *Artificial Intelligence for the Renewable Energy Transition*
Department for Environmental Systems Science, Climate Policy Lab
Advised by Anthony Patt & Stefan Pfenninger

Sep 2018 – Sep 2023
Zurich, Switzerland

Rheinisch Westfälische Technische Hochschule (RWTH)

Master of Science in *Electrical Engineering and Information Technology*
Thesis advised by Stephan Koch at Power Systems Lab, ETH Zurich
Examined by Antonello Monti, E.ON Energy Research Center, RWTH

Oct 2016 – Feb 2018
Aachen, Germany

Rheinisch Westfälische Technische Hochschule (RWTH)

Bachelor of Science in *Electrical Power Engineering and Business Administration*
Thesis advised by Johan Lilliestam at Climate Policy Lab, ETH Zurich
Examined by Reinhard Madlener, E.ON Energy Research Center, RWTH

Oct 2012 – Sep 2015
Aachen, Germany

PROFESSIONAL TRAINING

Kaufman Teaching Certificate Program

Teaching + Learning Lab
Elizabeth Vogel-Taylor

MIT
Spring 2024

Practical High Performance Computing

Lincoln Laboratory Supercomputing Center
Julie Mullen & Lauren Milechin

MIT
Spring 2024

Facilitating Effective Research

Office of Experiential Learning
Melissa Martin-Greene

MIT
Fall 2023

TEACHING

Quantitative Policy Analysis and Modelling

Teaching Assistant, MSc course

ETH Zurich
Fall 2020

Seminar Environmental Systems

Teaching Assistant, BSc course

ETH Zurich
Spring 2019

SUPERVISION

- **Maria Alder** | UROP Student, Mathematics with Computer Science, EECS & LIDS, MIT, Spring 2024.
- **Thomas Rigoni** | Research Assistant, MSc Computer Science, Climate Policy Lab, ETH Zurich, Spring 2023.
- **Francesco di Stefano** | Research Assistant, MSc Computer Science, Climate Policy Lab, ETH Zurich, Spring 2023.

REVIEWED ARTICLES

- Tornede, et al. PyExperimenter: Easily distribute experiments and track results. *Journal of Open-Source Software* (2023)

TALKS

Artificial Intelligence and 100% renewables, faster. | ETH Zurich
Frontiers in Energy Research, Energy Science Center, Spring 2020.

AWARDS

Peer-to-Peer Award for Best Presentation on Hitachi Energy Challenge 2022
Design Thinking Process on *Creative Energy for Future Energy Solutions*.
Energy Science Center, ETH Zurich.

IDEA League Scholarship
ETH Zurich, Fall 2016.

IDEA League Scholarship
RWTH Aachen, Spring 2015.

COMMITMENTS

***Energy Now! 2022* program mentor**
Expert initiative for preventing a potential energy crisis in Zurich
Energy Science Center, ETH Zurich, Switzerland

Google Zurich Computer Vision Challenge organizer and referee 2019
Hackathon in support of women in computer science (acm-w)
Nazarbayev University Astana, Kazakhstan

SOFTWARE

selberai | Python
Artificial General Intelligence for tackling climate change

altility | Python
Spatio-temporal prediction model using active deep learning

bevpo | Python
City-scale car traffic and parking density map analysis tool

SERVER ADMINISTRATION

Graphical Processing Unit (GPU) server | 2020 – 2024
Dedicated bare metal server for deep learning applications in remote sensing.
Landscape Ecology Group and Climate Policy Lab, ETH Zurich, Switzerland.

SPOKEN LANGUAGES

- German (native)
- Farsi (native)
- English (advanced)
- Portuguese (advanced)
- Serbo-Croatian (basic)
- Swiss German (basic)
- Spanish (basic)

PROGRAMMED LANGUAGES

- Python (advanced)

- Julia (advanced)
- Matlab (advanced)
- C / C++ (advanced)

DEEP LEARNING

- TensorFlow (advanced)
- PyTorch (advanced)
- JAX (advanced)

HOBBIES

I enjoy doing indoor and outdoor sports to balance out long days of work at the computer. I also like to explore new disciplines and activities on a regular basis.