Mila Lüscher

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EDUCATION

• MSc Physics

ETH Zurich 2021 - 2023

BSc Physics

University of Zurich 2017-2021

• Swiss Matura

Kantonsschule Büelrain Winterthur (with focus on economics and law)

2013-2017

EXPERIENCE

• Support Crew, Faculty of Medicine

Supporting the faculty of medicine (MeF UZH) in the organization and execution of lectures, courses and exams

Aug 2020 - Present

• Teaching Assistant

Leading exercises classes in "Physics for Life Sciences" Feb-Aug 2020

ADDITIONAL EXPERIENCE

Cameo Cinema

On weekends I worked at a local cinema selling tickets and beverages.

2018-2020

• Volunteer work at the Musikfestwochen 15 & 16

Helping out in the organisation and execution of the Musikfestwochen in Winterthur

August 2015 & 2016

PROJECTS

• Bachelor Thesis (UZH)

"The Impact of Supermassive Black Holes on Galaxy Morphology" supervised by Prof. Romain Teyssier. Using the N-body, hydro-dynamical code RAMSES, I simulated galaxies with the supercomputers at CSCS. The goal was to test how implementing supermassive black holes would change the morphology of the galaxies.

• Semester Project (ETH)

Here I analysed globular clusters in high-redshift galaxies, under the supervision of Prof. Robert Feldmann. These galaxies were simulated with the code GIZMO in combination with the feedback model FIRE-2.

Master Thesis (ETH)

During 6 months I worked on my master thesis under the supervision of Prof. Alexandre Refregier. My task was to generate weak lensing dark matter density maps using a conditional denoising diffusion probabilistic model (with the library PyTorch).

SKILLS

Technologies

Python, LaTex, Unix, Machine Learning (TensorFlow, PyTorch), Git, Awk, Slurm, Gnuplot, Paraview, Microsoft Office, C++ (basics), Swift (basics), Julia (basics)

Languages

English (mother tongue & CPE), German (mother tongue)