

AI researcher focused on evaluating large language models and multimodal models, as well as developing and implementing machine learning models for automatic analysis of a wide range of data, including text, images and time-series, for the Norwegian Defence Research Establishment. Especially interested in generalization, robustness and evaluation of machine learning models. I'm a former astrophysicist with a focus on data analysis for Cosmological experiments, where I led the development of the end-to-end data analysis pipeline for the [COMAP](#) experiment, from raw telescope data to constraints on astrophysical parameters. I have also worked on data analysis for cosmic microwave background experiments within the [Cosmoglobe](#) collaboration.

## Experience

### Research

- Fall 2023 – **AI Researcher**, *Norwegian Defence Research Establishment*  
Created [WeirdML](#), a benchmark for evaluating LLM capabilities on novel ML tasks (included in Epoch AI's Benchmarking Hub, supported by METR)
- Spring 2021–  
Fall 2023 **Postdoctoral Fellow in Cosmology**, *Institute of Theoretical Astrophysics, University of Oslo (UiO)*
- Summer 2014 **Research assistant**, *UiO*  
Implementing a wavelet-based method to detect point sources in the Planck CMB-data.

### Supervision

- 2021–2023 **PhD supervisor**, *UiO*, Supervised two PhD students in Cosmology
- 2019–2021 **Master thesis supervisor**, *UiO*, Supervising masters students in Cosmology  
One master student finished summer 2020. Three students finished summer 2021.

### Teaching

- 2021–2022 **Lecturer**, *UiO*, Cosmological Component Separation (AST9240)
- Spring 2018 **Lecturer**, *UiO*, Cosmology 2 (AST5220/9420)

## Education

- 2016–2021 **PhD in Cosmology**, *Institute of Theoretical Astrophysics, UiO*, "Bayesian Data Analysis for Intensity Mapping and CMB Experiments"
- 2013–2016 **Master in Astronomy**, *Institute of Theoretical Astrophysics, UiO*, "Late Kinetic Decoupling of Dark Matter"

## Awards

- 2022 **His Majesty The King's gold medal for best doctoral thesis in the Faculty of Mathematics and Natural Sciences at the University of Oslo in 2021**

## Publications

As quantified by NASA/ADS, I have published a total of **51 papers** in the field of Cosmology as of Dec. 2024, resulting in a total of 722 citations and an h-index of 17

## Skills

Programming (python, fortran, C++), data visualization (matplotlib), statistical methods/modeling/inference, bayesian data analysis, machine learning (pytorch), high performance computing (MPI, openmp, numpy, scipy)