

Håvard Tveit Ihle

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Date of Birth: June 10, 1987

I'm an astrophysicist focused on data analysis for Cosmological experiments. I'm leading the development of the end-to-end data analysis pipeline for the [COMAP](#) experiment, from raw telescope data to constraints on astrophysical parameters. I'm also working on data analysis for cosmic microwave background experiments within the [Cosmoglobe](#) collaboration. In addition, I enjoy teaching and supervising students.

Experience

Research

Spring 2021– **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– **PhD supervisor**, *UiO*, Currently supervising 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).

2016–2018 **Group teacher in Astronomy**, *University of Oslo*, Introduction to Astrophysics (AST 2000).

2013–2015 **Lab teacher in computational physics**, *UiO*, Computational Physics (FYS 3150/4150).

2013–2016 **Group teacher in introductory physics**, *UiO*, Physics- the foundation of natural sciences and medicine (FYS 1000).

Summer 2015 **Student project developer**, *UiO*, (AST 2000).

Spring 2015 **Lab teacher in computational physics**, *UiO*, Computational Physics 2 (FYS 4411/9411).

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 **33 papers** in the field of Cosmology as of Sept. 2022, resulting in a total of 370 citations and an h-index of 11.

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).