

# Bjørn Christian Weinbach

RESEARCHER · PHD-STUDENT

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“Prediction is very difficult, especially if it’s about the future.”

## Education

### Western Norway University of Applied Sciences

Sogndal and Bergen, Norway

PHD IN COMPUTER SCIENCE (ONGOING)

Jan. 2023 -

- Ongoing PhD in Computer Science. Main area of focus is computer vision and object detection.

### University of Stavanger

Stavanger, Norway

M.SC IN COMPUTER SCIENCE - DATA SCIENCE

Aug. 2020 - Jun. 2022

- Engineering degree in Computer Science with specialisation in Data Science.

### Uppsala University

Uppsala, Sweden

EXCHANGE SEMESTER

Aug. 2021 - Jan. 2022

- Elective courses in computer science with specialisation in data science, stochastic machine learning, databases II and image analysis.

### Norwegian University of Science and Technology

Gjøvik, Norway

B.E. IN COMPUTER SCIENCE

Jun. 2017 - Jun. 2020

- Engineering degree in computer science. Elective courses were Mathematics 3, Infrastructure as Code and Introduction to Artificial Intelligence.

### Sogn og Fjordane County Municipality

Leikanger, Norway

CERTIFICATE OF APPRENTICESHIP: COMPUTER TECHNICIAN

Aug. 2015 - Jan. 2017

- Apprenticeship at the Sogn og Fjordane County Municipality.

## Skills

#### Programming

Python, R, C++, C, SQL

#### Data Science

Statistics and Probability, Bayesian Inference, Monte Carlo methods, Pandas, Data Processing, Visualisation, Clustering, Dimensionality Reduction

#### Machine Learning

Traditional Models, Neural Networks, Stochastic Machine Learning, Convolutional Neural Networks for Image Analysis, Bayesian Networks, Fair Machine Learning

#### Software Engineering

Agile Software Engineering, Git, Project planning, UML, CI/CD, DevOps

#### Languages

English, Norwegian, Some German

## Work Experience

### Western Norway Research Institute

Sogndal, Norway

SUMMER INTERNSHIP / RESEARCHER / PHD STUDENT

Jun. 2021 - today

- Research Intern summer of 2021. Participated in Teknoløft Sogn og Fjordane with an aim of identifying data science applications in the region.
- Masters Thesis: Fairness and Interpretability in Machine Learning written together with University of Stavanger and Western Norway Research Institute.
- Full Time employee as of August 2022 working as a researcher in Teknoløft Sogn og Fjordane.
- PhD Student as of January 2023.

### Norwegian Digitalisation Agency

Leikanger, Norway

SUMMER INTERNSHIP

Jun. 2020 - Aug. 2020

- Tasked with planning and developing a new application aimed at youth in Norway.
- Worked as back-end developer during the internship. Mostly using PHP and the Drupal 8 framework.

## Norwegian University of Science and Technology.

Gjøvik, Norway

### TEACHING ASSISTANT

Aug. 2018 - Jun. 2020

- Teaching assistant in Fundamental Programming in C++ fall of 2018 and 2019. Worked mainly by supervising and guiding first year students in weekly tasks and during assignments. Also graded assignments and helped students preparing for exams.
- Teaching assistant in Object-Oriented Programming in C++ spring of 2019 and 2020. Worked mainly by supervising and guiding first year students in weekly tasks and during assignments. Also graded assignments and helped students preparing for exams.
- Teaching assistant in Algorithmic Methods in C++ spring fall of 2019. Worked mainly by supervising and guiding second year students in weekly tasks and while preparing for exams.

## Sogn og Fjordane County Municipality

Leikanger, Norway

### COMPUTER TECHNICIAN & CUSTOMER SUPPORT

Aug. 2015 - May. 2017

- Maintenance tasks in the windows server environment, customer support and other technical tasks.
- Worked here as an apprentice until January 2017. Employed as Computer Technician from January to May.

## Presentation

### Presenter at Framtidsfylket in Trondheim

Trondheim, Norway

#### FRAMTIDSFYLKET - TRONDHEIM

March. 2023

- Introduced The Western Norway Research Institute.
- Presented myself, my team, department and the Research areas of The Western Norway Research Institute.
- Encouraged students from The Norwegian University of Science and Technology to apply.

### Lunch Presentation at the Western Norway University of Applied Sciences

Sogndal, Norway

#### FAGLUNGSJ: BJØRN CHRISTIAN WEINBACH - KUNSTIG INTELLIGENS I AKADEMIA

Feb. 2023

- Introduced ChatGPT and Large Language Models.
- Discussed the challenges with Large Language Models and the future developments of the technology.
- Responded to questions about AI technologies and related technologies..

### Presenter at Speedforsking at Western Norway University of Applied Sciences

Sogndal, Norway

#### SPEEDFORSKING

Sep. 2022

- Introduced the philosophical definitions of Information and Data.
- Presented Images as a valid and valuable data source.
- Discussed the rise of social media and the true value of data.

## Organizing Committee

2023 **Organiser**, SAIDD | Symposium on AI, Data and Digitalization

Sogndal Norway

## Extracurricular Activity

### Red Party - Sogndal

Norway

#### LEADER AND BOARD MEMBER

Jan. 2023 - Present

- Established the red party as a local party in Sogndal.
- Elected for 1 year as local party leader
- Areas of interest include climate change, nature preservation and inequality.

### Norwegian Society for the Conservation of Nature

Norway

#### BOARD MEMBER

Mar. 2023 - Present

- Elected as board member.
- Work area has been preservation of Sognefjorden and the local nature in the region of Indre Sogn.