

CV: Frederik B. Hildebrand

29/01/2026

| **Contact:** | Born: 24 Aug 1996 |
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• EDUCATION

2022 – 2025 MSc. Computational & Physical Chemistry, University of Copenhagen
2019 – 2022 BSc. Chemistry, University of Copenhagen

• CURRENT POSITION(S)

2025-26 Academic Employee, Dept. of Environmental Science, Aarhus University

• PREVIOUS POSITIONS

2025 Student Assistant, Data Analysis, Dept. of Environmental Science, Aarhus University

2024 Student Assistant, Data Cleaning & Quality Control, Dept. of Environmental Science, Aarhus University

2023-24 Student Assistant, Mobile Air Quality Monitoring at Copenhagen Airport, Dept. of Environmental Science, Aarhus University

• INVOLVEMENT IN EXTERNALLY FUNDED RESEARCH

2025- Worked as research assistant on the RECRUIT project (2025-26) titled “High resolution detection and modelling of pollen and spores”, funded by Novo Nordisk Foundation 2022-29

2025- Worked on the AI model project on the supercomputer GEFION titled “Extending 2 atmospheric models with GPU usage within a NNF funded RECRUIT project on airborne pollen and spores”

2025- Worked with data treatment on the LEARN EU-Horizon project (2025-26) looking into indoor air quality in Danish primary schools.

• STUDENT ACTIVITIES & TEACHING

2020 – 2024 Student Member of Study Board for Physics, Chemistry and Nanoscience at the University of Copenhagen

2019 – 2024 Co-head of Chemistry Show at the University of Copenhagen – Organization of workshops and shows

• KEY QUALIFICATIONS

I hold an MSc in Computational & Physical Chemistry from the University of Copenhagen, following a BSc in Chemistry from the same institution. I have programming skills with expert-level proficiency in Python and experience working in Bash-based workflows. Through my education and research projects, I have developed strong skills in data cleaning, scraping, and large-scale analysis, as well as machine and deep learning using TensorFlow (Keras), PyTorch, and Statsmodels. Along with this I have also obtained experience in working with trajectory modelling using the HYSPLIT model. Throughout my student volunteer work I have also acquired skills in teaching and science communications, as well as organizational understand of workflows and internal processes.

• PUBLICATIONS AND SCIENTIFIC TALKS

2024 Ellermann, T., Sørensen, M. O. B., Massling, A., & **Hildebrand, F.**

B. (2024). *Måling af partikelforureningen omkring Københavns Lufthavn i Kastrup.*

Aarhus University, DCE - Danish Centre for Environment and Energy. Videnskabelig rapport fra DCE - Nationalt Center for Miljø og Energi Nr. 599

https://dce.au.dk/fileadmin/dce.au.dk/Udgivelser/Videnskabelige_rapporter_500-599/SR599.pdf

2026 Presentation at ACTRIS-DK yearly workshop titled: **Source apportionment at the Arctic Villum Research Station**

• ORGANIZATION OF SCIENTIFIC MEETINGS

2026 Assisted in the organization of ACTRIS-DK yearly workshop

Co-organized icebreaker for early career scientists

• LANGUAGES

Danish:

Native language

English:

| Speaking: 5 | Writing: 5 | Reading: 5 |

German:

| Speaking: 3 | Writing: 2 | Reading: 4 |