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### **Key research areas**

- Arctic research with focus on the impact of microorganisms on atmospheric processes.
- Ice-nucleation activity and diversity of atmospheric microorganisms.
- The coupling between microorganisms in the marine, terrestrial, and atmospheric environment.
- Microbial processes in the Arctic environment, including processes in permafrost.

### **Academic degrees and professional qualifications**

May 2022 – April 2025	<b>Ph.D. student:</b> Aarhus University, Department of Biology, Section for Microbiology (Aero-microbiology research group), and Bioinformatic Research Center (BiRC) <u>Current title of PhD project:</u> <i>“Identification and Quantification of Novel INpro-Producing Microorganisms in the Arctic”</i>
Sep. 2019 – Jan. 2022	<b>MSc degree in Biology</b> (Microbiology): Aarhus University, Department of Biology, Section for Microbiology <u>Master’s thesis:</u> <i>“Microbial Processes and Organic Carbon Turnover in Thawed Permafrost”</i> <u>Vocational Training Project:</u> <i>“Quantitative Detection of Streptococcus Thermophilus Wildtype in Raw Milk and Whey”</i>
Sep. 2015 – Jan. 2019	<b>BSc degree in Biology:</b> Aarhus University, Department of Biology. <u>Bachelor’s thesis:</u> <i>“Post-Breeding Dispersal in Eurasian Spoonbills: The Use of Danish Wetlands”</i> <u>Student assistant:</u> Aarhus University, Department of Ecoscience, Fauna Ecology

### **Publications in progress**

- Manuscript 1: *“Bioaerosols and Ice-Nucleating Proteins in Arctic Sea Spray”*
- Manuscript 2: *“Seasonal Dynamics of Arctic Marine Ice-Nucleating Proteins”*
- Manuscript 3: *“Ice-Nucleation Activity of the Phyllospheric Microbiota in Greenland”*

### **Conference attendance**

Apr. 2024	<b>EGU</b> (European Geoscience Union) PICO presentation.
Apr. 2023	<b>EGU</b> (European Geoscience Union) PICO presentation.
Nov. 2022	<b>DMS</b> (Danish Microbiology Society) Talk: <i>“Linking Sea Spray, Bioaerosols, and Ice-Nucleation Proteins in Arctic Marine Environments”</i>
Oct. 2022	<b>PAM</b> (International Conference on Polar and Alpine Microbiology) Talk: <i>“Linking Sea Spray, Bioaerosols, and Ice-Nucleation Proteins in Arctic Marine Environments”</i> Poster: <i>“High Concentrations of Volatile Fatty Acids and Methane Production upon Thaw of Yedoma Permafrost”</i>
Jul. 2022	<b>IBP</b> (Ice Binding Proteins): Attendance