# Yaolin Ge

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Meteorologisk institutt
Henrik Mohns Plass 1,
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**Application letter to "Researcher / software developer"**

Dear Hiring Manager at Meteorologisk institutt,

I am writing to express my interest in the Researcher / Software Developer position at your esteemed institution. As a Ph.D. candidate in the statistics group at the Department of Mathematical Sciences at NTNU, I have developed a strong foundation in data-driven machine learning software system development, high-performance computing, and remote sensing data analysis. I am particularly excited about the ACCIBERG project and the opportunity to contribute to developing and tuning parametric forward models of the ocean, sea-ice, and atmosphere microwave brightness temperature.

During my Ph.D., I have designed and implemented multi-scale data-driven machine learning software systems for remote sensing, and developed models to incorporate various in-situ data, including satellite data and robotic samples collected in the ocean. This experience aligns well with the requirements of the position, particularly the direct assimilation of satellite brightness temperature observations into a coupled ocean/ice model of the Arctic using Ensemble Kalman-Filter. Furthermore, my experience with high-performance computing, and my proficiency in Git, will enable me to contribute effectively to developing and running forecast systems.

I am particularly drawn to MET Norway due to its reputation as a leading institute in weather and ocean forecasting, climate services, and distributed data management. I am excited about the prospect of transforming research into services for society and collaborating with other national and international institutions. I am confident that my experience in collaborating and communicating with multiple stakeholders, as well as my ability to work independently and proactively, will make me a valuable addition to your team.

Thank you for considering my application. I am eager to bring my passion for data-driven research and software development to MET Norway and contribute to your ongoing and future projects.

Sincerely,

Yaolin Ge