**Yaolin Ge**

Alfred Getz' vei 1, 7034 Trondheim | +47 92526858 | <https://yaolinge.github.io> | [yaolin.ge@ntnu.no](mailto:yaolin.ge@ntnu.no)

Rune Solberg

Norsk Regnesentral

Gaustadalléen 23A

0373 Oslo

**Application letter to “Forsker i statistisk modellering, maskinlæring og AI”**

I am currently a Ph.D. candidate in the statistics group at Department of Mathematical Sciences at NTNU, and hopefully soon will defend my thesis in the summer. I have been working on the MASCOT project during the past two and half years. In the project, I mainly work with developing machine learning software systems using spatial statistics and reinforcement learning strategies for autonomous ocean sampling with underwater robots. I have experiences with incorporating multiple data sources including the numerical solver SINMOD from SINTEF Ocean and satellite images from Sentinel-2 into my modelling process. I have conducted several successful experiments in Trondheimsfjorden and the Atlantic Oceans which have demonstrated the capability and robustness of my software system.

I have also had experiences with deep learning strategies when I was a research intern at Peking University in 2019 where I achieved the motion capturing of my colleague by employing an opensource computer vision library called openpose. We then mapped the captured motion to a humanoid robot so to produce the human-robot dance show. It was a fun experience, and that motivates me to apply more deep learning techniques.

Apart from the professional life, I am also very active in my spare time. I have been training Taekwondo for nine years and have competed in NM in 2021 (won bronze medal in senior M 74+). I like dancing and playing piano as well. Additionally, sharing with others about the joy of dancing and Taekwondo is also one of my favorite things to do. Last but not least, skiing and hiking in the mountains are my ways of meditation.

I will bring the competence of utilizing spatial statistical techniques and machine learning software development skills for remote sensing applications.

I am looking forward to hearing from you soon.

Sincerely,