

To whom it may concern,

I am excited to apply for a master's degree in Applied and Computational Mathematics (ACM) at the University of Bergen (UiB) so I may enhance my education and research background on various applications of computational mathematics as I pursue a career in industry. In my second year as an undergraduate at the University of California, Santa Cruz (UCSC), I was determined to find a job where I could use my expertise in computer programming. After realizing all the jobs I was interested in working for required a master's degree in ACM, I knew I needed to further my education in graduate school to enhance my background on ACM so I can pursue a career in industry. To prepare myself for graduate work and strengthen my background in ACM, I took on multiple different research projects involving numerical analysis and other computational methods.

For the past two years I have worked on various research projects where I have gained practical skills in image analysis, data analysis/data reduction of large surveys, and numerical analysis of time-dependent Partial Differential Equations (PDEs). With a master's education at UiB, I look to further my background in the fields of ACM that interest me the most, image analysis, machine learning, and numerical analysis of parabolic PDEs, as I pursue a career in industry. Due to UiB being home to several highly regarded faculty members in computational mathematics and physics with research interests closely matching my own, such as Prof. Magnus Svärd and Prof. Hans Munthe-Kaas, UiB is the ideal place for me.

My determination to build a strong background in computational mathematics as an undergraduate at UCSC has ensured my preparedness for more advanced studies, and has equipped me with a unique set of abilities to offer UiB's ACM graduate program. I am excited by the possibility of conducting research with the faculty at UiB's Computational Mathematics Research Group and look forward to the challenges that await me while I attempt to further my education and research background with a masters degree in ACM at UiB.

Thank you in advance for your time and consideration.

Sincerely,

Collin O'Connor