

LETTER OF RECOMMENDATION, MARTIN S. ALNÆS

To whom it may concern,

As a researcher and Head of Department at Simula Research Laboratory, I have had the pleasure of working and collaborating closely with Dr. Martin S. Alnæs for nearly a decade. Martin is a highly talented, innovative and reliable researcher and computer scientist whom I can only give my very warmest recommendations.

Since 2009, I have worked with Martin on the FEniCS Project, an international and collaborative, open source, numerical simulation framework. FEniCS is a modular framework, with components written in Python and C++. Martin has been a core developer of multiple FEniCS components, and has extensive knowledge and experience with both these programming languages and associated best practices for state of the art software development and maintenance. In addition to being a driving force behind the general development of FEniCS, Martin has pioneered and developed two of the FEniCS components: the Unified Form Language (UFL) and UFLACS essentially single-handedly. These two components are in wide international research and industrial use today, signifying the quality, reliability and relevance of these tools. Overall, Martin's software has always been marked by innovative ideas, attention to efficiency and readability, and overall top quality. The international and collaborative nature of FEniCS also illustrates Martin's extensive experience with designing, discussing and developing software in a challenging, distributed and diverse environment.

Since attaining his PhD in 2009, Martin has conducted research in numerical simulation technology and biomedical simulation with a particular emphasis on computational fluid flow dynamics applied to physiological flows such as blood and cerebrospinal fluid. He has thus in-depth knowledge of mathematical modelling, numerical methods, simulation technology, visualization etc in this area. His research was carried out in the context of the Center for Biomedical Computing (2007-2017), a Norwegian Center for Excellence, which are the most prestigious research environments in Norway. This Center was truly multidisciplinary in combining computer science, mathematics, mechanics, physics, physiology and medicine, and Martin has shown true skill in collaborating across this wide spectrum of research fields.

From 2012-2016, I acted as the head of Biomedical Computing Department and as Martin's immediate leader. During this time, Martin always acted professionally, readily offered constructive ideas and feedback and contributed actively to a positive team spirit.

I give Martin my very warmest recommendations and consider anyone having Martin as an employee or team resource very fortunate. I would be happy to act as a reference for Martin at any point in the future and please do not hesitate to contact me for further questions or clarifications.

Sincerely yours,

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