Curriculum Vitae for Guttorm Kvaal

Personal information

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Born:	24/08/1992	Nationality:	Norwegian

Summary

I am a curious person with an interest and enthusiasm for technology and problem solving. I submitted my master's thesis summer 2017 in the field of Computational Science and Engineering at the University of Oslo / Simula. In my work I performed numerical simulations of micro-particles inhaled into the human respiratory system. This involved writing Python scripts and working with open-source solutions and libraries, as well as performing data analysis and supercomputer simulations. My academic background involves a combination of mathematics and programming, together with insights in physics and fluid mechanics. During my studies I have developed my professional experience through part-time and holiday positions within teaching and customer service.

Technical skills

Frameworks	Numpy, Scipy, Matplotlib, FEniCS
Languages	Python
Tools	Git, Linux, Ansys ICEM, Paraview

Education

2015 – 2017	Master's Degree in Computational Science and Engineering at the University of Oslo
2012 – 2015	Bachelors's Degree in Physics at the University of Oslo

Professional experience

2017 –	Consultant, Expert Analytics
2016 – 2017	Administration Assistant, Simula
2016	Teachers Assistant, Department of Informatics, University of Oslo
2015 – 2016	Customer Service Cosultant, Nokas Cash Handling
2011 – 2012	Integration Sales, Klarna

Languages

English	Fluent
Norwegian	Native

Personal skills

Applied Mathematics	Analyse and solve problems using mathematical methods and computer programming
Customer Service	Communicate and coordinate with customers and third parties during hectic situations

Some interests and hobbies

Indoor	Cooking, history
Outdoor	Mountainbiking, alpine, hiking

Extended descriptions of selected projects

Activity	Numerical Simulations of Pharmaceutical Particles Depositing in the Human Respiratory System, Verification and Validation of a Virtual Laboratory
Period	2016 - 2017
Role	Master student
Staffing	1
Description	The aim of my master's thesis was to investigate the link between size and location of deposition of micro-particles inhaled into the human respiratory system. By combining Python scripts and open-source solutions I was able to perform accurate simulations and estimate a range of partice sizes suitable for delivering inhalation medicine.
Tools	Python, FEniCS, Oasis, Ansys ICEM, Paraview