

PHD IN CHEMISTRY WITH PASSION FOR CREATING A SUSTAINABLE SOCIETY THROUGH DATA ANALYSIS

I have a solid foundation in materials chemistry, mathematical modelling, and software development. In my Ph.D. I successfully improved data analysis and interpretation of results for an experimental technique, so I have concrete experience with linking theory and experiment. I am proficient in Python and can implement data analysis solutions at multiple scales.

I approach new projects analytically and with confidence, and I implement intuitive structures to keep track of each project. As a colleague, I am inclusive and helpful, and I am passionate about communication and knowledge-sharing. You will know me as disciplined, thorough and with a will to make an impact.



SELECTED COMPETENCIES

IT

- ✓ Python
- ✓ Object-oriented programming
- ✓ C
- ✓ git
- ✓ gmake
- ✓ MS Word

Languages

- ✓ Danish (native)
- ✓ English (professional)
- ✓ German (conversational)

Analytical and scientific

- ✓ Formulating research plans
- ✓ Data analysis and interpretation
- ✓ Method development
- ✓ Experimental planning and execution

Collaboration

- ✓ Stakeholder coordination
- ✓ Cross-discipline collaboration
- ✓ Addressing collaborator concerns
- ✓ Writing research proposals

Dissemination

- ✓ Oral presentations
- ✓ Scientific writing
- ✓ Workshop planning
- ✓ Classroom management

Personal

- ✓ Solution-oriented
- ✓ Perseverance

Academic

- ✓ Materials science
- ✓ Molecular structure determination
- ✓ Magnetic measurements

PROFESSIONAL EXPERIENCE

2021

Postdoc in materials data science

Aarhus University

Transfer of skills and project knowledge from myself to continuing members of the research group

- ✓ Organizing workshop sessions to train colleagues on data treatment software and experimental understanding
- ✓ Developing automated data analysis scripts

2017 - 2021

Ph.D. student in magnetism of materials

Aarhus University

My project was about developing data processing for a specialized experimental technique in the cross-section between physics and chemistry

- ✓ Coordination with stakeholders in international project collaborations
- ✓ Main developer of `molmag_ac_gui`, a Python visual interface for treating and modelling experimental data
- ✓ Writing biannual research proposals for large international facilities
- ✓ Presentations of findings at international meetings and conferences
- ✓ Author of 4 scientific papers (3 as main author)

2019

Visiting researcher

Oak Ridge National Laboratory, USA

A four-month research stay as a part of the PhD program to exchange knowledge and receive specific training on software and experimental methods

- ✓ Planning of international research collaborations
- ✓ Collaboration with colleagues from other disciplines and work cultures

2017 - 2020

Teaching assistant, Physical Chemistry and Chemical Crystallography

Aarhus University

As a teaching assistant, I had the primary contact with students during courses. From this role, I have learned how to disseminate highly technical material to students with a wide variety of scientific understanding

- ✓ Planning of teaching activities to support lectures
- ✓ Classroom management and leadership

2009 - 2016 **Shift manager, Rema 1000 Denmark**

In this role, I was the primary responsible for a grocery store, typically in the evening hours (4 p.m. - 10 p.m.). My tasks included

- ✓ Keeping an overview of tasks and assignments for myself and a team of 2-6 younger coworkers
- ✓ Customer relations and responsibility for a good customer experience
- ✓ Keeping the store looking inviting
- ✓ Closing routines in a store (handling cash earnings, activating alarms)
- ✓ Training new staff in store routines

2008 - 2009 **Store clerk, Rema 1000 Denmark**

As a store clerk I worked the register and filled shelves in a grocery store. I took part in

- ✓ Checking out customer purchases
- ✓ Cleaning and tidying up the store
- ✓ Helping customers locate items or alleviate doubts

EDUCATION

2013 - 2019 **M.Sc. in Chemistry**
Aarhus University

VOLUNTEER WORK

2010 - 2014 **Private**
Danish National Guard, HVK Eshøj

As a member of the Danish National Guard, I trained how to engage with the public professionally and calmly when representing an official entity in society

- ✓ Extensive first aid training
- ✓ Firefighting skills

ABOUT ME

I live with my girlfriend in an apartment in Aarhus N. Together, we have a young son who was born in the fall of 2021. Watching him experience the world around him for the first time is a daily source of joy for me. I relax by taking a time-out with friends or family to go hiking in the forest or the countryside, or to simply sit next to a bonfire and absorb the outdoors.

References are available upon request