

Peder Aursand, PhD

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EDUCATION

Norwegian University of Science and Technology

PhD in Mathematics

Trondheim, Norway

Aug 2012 – Aug 2015

Norwegian University of Science and Technology

MSc in Applied Mathematics and Physics

Trondheim, Norway

Aug 2006 – Jun 2011

EXPERIENCE

Aker BP

Senior Engineer - Machine Learning

Oslo, Norway

Aug 2018 - Present

- Lead the development of automatic interpretation of subsurface data using machine learning
- Conduct R&D projects in subsurface data science with external partners
- Develop MLOps infrastructure, including ML model hosting and versioning
- Mature Aker BP's internal capabilities in data science through tools and training

CGI

Data Scientist

Oslo, Norway

Jan 2018 - Aug 2018

- Automatic seismic interpretation using deep neural networks
- Cloud infrastructure in AWS for data science in banking

Norwegian Computing Center

Senior Research Scientist

Oslo, Norway

Oct 2016 - Dec 2017

- User authentication using mobile sensors and machine learning
- Models for security in Advanced Metering Infrastructure using game theory

SINTEF Energy Research

Research Scientist

Trondheim, Norway

Aug 2011 - Sep 2016

- Numerical simulation of compressional multi-phase flow in pipelines
- Mathematical modelling and simulation of rapid phase transition

OTHER EDUCATION

ETH

Visiting Researcher

Zürich, Switzerland

Aug 2014 - Dec 2014

- Uncertainty quantification in partial differential equations

University of Glasgow

Exchange Student

Glasgow, Scotland

Jan 2010 - Jun 2010

- Honors project in experimental quantum mechanics
- Classes in quantum field theory, statistics, and applied mathematics

SKILLS AND TOOLS

- Languages: Norwegian (native), English (fluent)
- Cloud platforms: AWS, Google Cloud
- Cloud native tech: Lambda, Functions, S3, Docker, Kubernetes, BigTable, CloudSQL, Pub/Sub
- Programming languages: Python, C, C++, Java, Javascript, Fortran
- Machine learning: scikit-learn toolstack, Pytorch, Keras, Tensorflow
- High performance computing: MPI, OpenMP
- Other: Linux system administration, Android API, \LaTeX