Peder Aursand, PhD

Oslo, Norway

🌐 drgaff.net   ✉ peder.aursand@gmail.com   📱 97 66 84 09

EDUCATION

Norwegian University of Science and Technology   **Trondheim, Norway**
PhD in Mathematics   *Aug 2012 – Aug 2015*

Norwegian University of Science and Technology   **Trondheim, Norway**
MSc in Applied Mathematics and Physics   *Aug 2006 – Jun 2011*

EXPERIENCE

Aker BP   **Oslo, Norway**
Value Stream Manager / Data Scientist   *Aug 2018 - Present*
- Leading a cross-disciplinary team developing ML models from prototype to production
- Developing automatic interpretation of subsurface data using machine learning
- Implementing MLOps infrastructure, including ML model hosting and versioning
- Maturing Aker BP's internal capabilities in data science through tools and training

CGI   **Oslo, Norway**
Data Scientist   *Jan 2018 - Aug 2018*
- Automatic seismic interpretation using deep neural networks
- Cloud infrastructure in AWS for data science in banking

Norwegian Computing Center   **Oslo, Norway**
Senior Research Scientist   *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   **Trondheim, Norway**
Research Scientist   *Aug 2011 - Sep 2016*
- Numerical simulation of compressional multi-phase flow in pipelines
- Mathematical modelling and simulation of rapid phase transition

OTHER EDUCATION

ETH   **Zürich, Switzerland**
Visiting Researcher   *Aug 2014 - Dec 2014*
- Uncertainty quantification in partial differential equations

University of Glasgow   **Glasgow, Scotland**
Exchange Student   *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