

Jesper Dramsch

Geophysics Student (MSc)

contact

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languages

German C2
English C1
Spanish B1
French A2
Italian A1
Norwegian A1

software

Promax & Seismic Unix
Matlab, Python & L^AT_EX

geophysics

seismic interpolation
sub-salt imaging
fresnelzone imaging
anisotropy

education

- 2010–today **Master** of Science, Geophysics University of Hamburg, Germany
Pre-stack Data Enhancement for Subsalt Imaging using the Partial Common Reflection Surface Stack
This thesis will explore the improvement in seismic images in sub salt regimes, exploiting the redundancy of information in the midpoint as well as offset domain based on a Fresnel zone limited traveltimes surface.
- 2007–2010 **Bachelor** of Science, Geophysics/Oceanography University of Hamburg, Germany
Trace interpolation using Partial CRS-Stacks
This thesis evaluated the partial CRS-stack algorithm by interpolating seismic gaps that were artificially introduced in a data set.
- 2006–2007 **Junior** Studies, Geophysics/Oceanography University of Hamburg, Germany
A program for talented high school students, granting early access to university courses.

experience

- 2013 (6m) **University of Hamburg** Hamburg, Germany
Teaching Assistant – Introduction to Geophysics
Teaching a complementary lecture to the main introduction to geophysics lecture BSc course.
- 2012 (4m) **Schlumberger** Crawley, United Kingdom
Intern – Engineering Seismic Interpolation
Prototyping an automatic data-driven seismic interpolation method in MatLab.
- 2011 (2m) **Fugro Seismic Imaging** Oslo, Norway
Intern – R&D Seismic Imaging
Comparison of different near offset trace interpolation algorithms (i.e. CRS) to improve Surface Related Multiple Elimination (SRME) in 2D.
- 2010–2012 **University of Hamburg** Hamburg, Germany
Student Assistant – Applied Seismics
Assessing the accuracy of partial Common Reflection Surface (CRS) stacks for trace interpolation. Writing a primer on using the CRS software package.
- 2009 (3d) **FS Alkor** AL 339
University field work
Including seismics, gravity, geomagnetics and echo-sounding.
- 2007 (2w) **German Research Centre for Geosciences** Potsdam, Germany
Intern – Geophysical Deep Sounding
Two week introduction to geophysical imaging depth imaging.

awards

- 2012 **Famelab Hamburg** British Council
2nd Prize for a very short public presentation on seismic imaging.
- 2011 **British Council** British Council
1st Prize for a very short public presentation on seismology and geohazards.

communication skills

- 2011-2012 **Short Oral Presentation** Famelab Germany
Very short public presentations about research for my thesis.
- 2011 **Poster Presentation** 73rd EAGE Vienna
Poster presentation of the research conducted for my Bachelor thesis on trace interpolation.
- 2011 **Technical Presentation** Wave Inversion Technology Meeting
Technical presentation about my work involving partial CRS stacks and seismic interpolation.
- 2000–2007 **Oral Presentation** Jugend foscht
Presentations on different self-chosen research projects including a written report in the geoscience section. "Jugend forscht" is the biggest youth science and technology competition in Europe.

voluntary activities

- 2011 **Vice President** Geophysical Activity Programme e.V.
Major German geophysical student meeting and networking event. Including 10 major sponsors, 150 student participants, six organisation teams, several helping hands and a five figure budget.
- 2008–2011 **Student representative** University of Hamburg
Involved in organising networking events, first semester introductory events and restructuring the representative organisation.
- 2007–today **Blood Donor** Blutspendedienst Hamburg
Consistent blood and plasma donor. (*Over 25 blood and 20 plasma donations.*)

interests

professional: earth science, geophysics, geology, big data, seismic imaging, interpolation, science communication, data security, anisotropy **personal:** running, weight lifting, rock climbing, drums, saxophone, computer, role-playing games, strategic boardgames, organizing social events

publications

references

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