

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 & LaTeX

geophysics

seismic interpolation
sub-salt imaging
fresnelzone imaging
anisotropy

education

@II 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

@II 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

@II 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

@II 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 forscht

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

@II 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

book chapters

Chap. Is working in oil and gas immoral?

Jesper Soeren Dramsch, 2013, Hamburg, Germany

. "52 Things You Should Know About Geology", Hall, Matt, Evan Bianco, and Kara Turner Agile Libre

international peer-reviewed conferences/proceedings

Trace Interpolation with Partial CRS Stacks

Jesper Soeren Dramsch, Dirk Gajewski

EAGE, 2011

research reports

Trace Interpolation with Partial CRS Stacks

Jesper Soeren Dramsch, Dirk Gajewski

Tech. rep., Hamburg: Wave Inversion Technologies, 2010

theses

“Trace Interpolation with Partial CRS Stacks”

Jesper Soeren Dramsch

Bachelor of Science, August 2010

other publications

Gab es vor 10.000 Jahren schon Wälder? – Untersuchung spätglazialer Dünenande und fossiler Böden auf Lebensspuren

Jesper Soeren Dramsch, Wolfgang Fraedrich

Collection of the State Archive, 2003

references

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The Way of the Geophysicist