

## Curriculum vitae

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### Formal Education

January 2006: **Cand. Scient. in physics and mathematics** at Roskilde University, Denmark.

Projects and courses (selected):

Master's thesis:

*Evaluating the methods of pollen analysis and optically stimulated luminescence in respect of recovering the climate history of a site near Yabroud, Syria.* (Language: English)

Excavations of soil samples from an existing profile in Syria followed by laboratory work and analyses at The Nordic Laboratory of Luminescence Dating, Risø, Denmark, in collaboration with another graduate student in physics and geography.

Project:

*The  $\alpha/\beta$ -model used in radiotherapy for cancer patients.* (Language: Danish,  *$\alpha/\beta$ -modellen brugt ved strålebehandling af kræftpatienter.*)

Theoretical model analysis based on the biophysical processes.

Courses:

*Thermodynamics*

*Quantum mechanics*

*Electrodynamics*

*Probability and statistics*

*Mathematical analysis (non-linear structures)*

*Differential equations*

June 2001: **Bachelor in physics and mathematics** at Roskilde University.

Projects and courses (selected):

Projects:

*An Eemian deposit – characterisation of a marine Eemian coastal deposit at Ejby, Denmark.* (Language: Danish, *Eemtidsaflejring – identificering af marin kystaflejring fra eemtiden ved lokaliteten Ejby, Danmark.*)

Determining the sedimentation history and age of an archaeologically interesting site in Denmark using various experimental techniques: Dating soil samples using OSL, and examining pollen, flint, and molluscs.

Courses:

*"Bredde"*: A physics overview course covering diverse topics such as classical and some analytical mechanics, basic thermodynamics, basic electrodynamics, special relativity theory, hydrodynamics, astrophysics, atomic and nuclear physics. It is a course based on problem solving. The problems are openly formulated and the tagline for the course is "to learn to think as a physicist".

*Basic mechanics and atomic physics*

*Experimental physics*

*Climate physics*, physics course focusing on climate and weather models.

*Applied linear algebra*

*Basic geology*

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## Employments (selected)

August 2008 – present: **Ph.D. student** at QUAD-Lab, Roskilde University, Denmark. My project will be to date archaeological sites from the Middle and Late Pleistocene in Southeast Asia. The methods for dating will be  $^{40}\text{Ar}/^{39}\text{Ar}$  and OSL.

2006 - 2007: **Teacher Training** for Secondary School Teacher in mathematics and physics, Himmelev Gymnasium, Roskilde, Denmark.

2000 - 2005: Several jobs as **Student Worker**, Roskilde University (several departments). Including: Three months as substitute secretary at Dept. of Maths and Physics in 2004; conference organiser; proofreader; internal postman; guide.

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## Courses, conferences, and more (selected)

Courses:

**Project Management**, Niels Brock Copenhagen Business College, full time studies, May 1<sup>st</sup> 06 to June 2<sup>nd</sup> 06. An introduction to basic tools for good project management.

Course in **Tumour Biology**, University of Copenhagen, two weeks in January 2005, organised by Dr.Med. John Rømer.

Course in **Electron Microscopy and X-ray Microscopy**, University of Southern Denmark, Odense, three days in January 2004, organised by Associate Professor Per Morgen. An optional course in experimental physics offered at that time to all Danish physics graduate students.

12 hours introduction course in **First Aid**, October 2003, held by nurse Lone Skjødt, Danish Red Cross.

Conferences:

**DEKLIM Climate change at the very end of a warm stage**, four conferences in Germany 2002-2005 (each for 3-5 days; language: English). Presented the results of my master's thesis at a poster session in 2005.

**The UK Luminescence and ESR meeting 2004**, St. Andrews, 4 days in Sep. 2004. Presented the results of my master's thesis at a poster session.

**NorthGRIP-symposium** (on ice core drillings), University of Copenhagen, Oct. 30<sup>th</sup>, 2003.

Travel and study abroad:

Received the scholarship *Travelling Scholarship for Mathematicians* in December 2006 which supports one year of studying mathematics abroad. This has been spent in **Iceland**, four months at Reykjavík University; **Canada**, visiting secondary schools in Vancouver; **New Zealand**, four months at University of Auckland; **Australia**, short holiday. (See webpage at <http://dirac.ruc.dk/~thhe/rejseforside.php>)

Travelled around **Australia**, Nov. 1991 - March 1992, and Sep. 1992 - Dec. 1992.