

Curriculum Vitae

Personal data:

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France

Positions:

Feb. 2015 – Current

Coordinator, Postdoctoral CERN Fellowship at CERN, Switzerland.

- ✓ Management and planning the build of a new beam-line experiment.
- ✓ Quotations and budget control.
- ✓ Spectroscopy and analysis of materials.
- ✓ Development of experiment.
- ✓ Publications of results.

Aug. 2014 – Jan. 2015

Visiting Researcher at University of Iceland.

- ✓ Spectroscopy and analysis of materials.
- ✓ Publications of results.

Feb. 2014 – April 2014

Visiting Postdoctoral researcher at iThemba LABS, South Africa.

- ✓ Optimization and calibration of experiment.
- ✓ Development of experiment.

Nov. 2012 – Nov. 2013

Postdoctoral researcher at University of Iceland.

- ✓ Thin film growth (magnetron sputtering) and characterization.
- ✓ Spectroscopy and analysis of materials.
- ✓ Publications of results.

Sep. 2008 – Nov. 2012

Ph.D. student in Physics at Faculty of Physical Sciences, University of Iceland.

- ✓ Build-up of magnetron sputtering system.
- ✓ Thin film growth (magnetron sputtering).
- ✓ Material characterization.
- ✓ Development of experiments.
- ✓ Publications of results.

Aug. 2005 – Nov. 2008

Fysikshow Aarhus, Department of Physics and Astronomy, University of Aarhus.

- ✓ Educational and interactive demonstration of physics.

Education:

- Nov. 2012 **Ph.D. degree in Physics** from Faculty of Physical Sciences, University of Iceland. Title of Ph.D. thesis “Paramagnetism in ion-implanted oxides”. ISBN: 978-9935-9069-5-3.
- Aug. 2008 **Masters degree in Astrophysics** from the Department of Physics and Astronomy, University of Aarhus. Title of thesis “Eftersøgning af variable stjerner i den åbne hob NGC 2660” (“Investigation of variable stars in the open cluster NGC 2660”).
- Jan. 2007 **Mechanical workshop licence** from the Department of Physics and Astronomy, University of Aarhus (Valid at CERN).
- Apr. 2006 **Bachelor of Science in Physics-Astronomy** from the Department of Physics and Astronomy, University of Aarhus.
- June 2000 **Higher Technical Examination (HTX student)** in Sønderborg.

Focus areas:

- ✓ Experimental and applied material physics.
- ✓ Project management.
- ✓ Material sciences (Solid state physics).
- ✓ Magnetron sputtering and thin film growth.
- ✓ Characterisation of materials (Non-destructive and destructive).
- ✓ Gamma spectroscopy.
- ✓ Vacuum and cryogenic systems.
- ✓ Experimental setup, development, and new design.
- ✓ Mechanical workshop.
- ✓ Market exploration and quotations.
- ✓ Work with radioactive materials.

Other qualifications:

- ✓ Computer skills: Microsoft Office and Windows, Adobe Design Premium, Inventor (3D CAD), LabVIEW, Visual basic, Matlab, Delphi, IDL.
- ✓ X-ray diffraction.
- ✓ TEM and SEM techniques.
- ✓ Beam separator course at ISOLDE/CERN, Switzerland.
- ✓ Mechanical workshop licence from the Department of Physics and Astronomy, University of Aarhus.
- ✓ Geology: Identification of minerals by Mössbauer spectroscopy.
- ✓ Astronomy: Stellar light curves (asteroseismology and exoplanets), HR-diagrams, and analysis of large amount of pictures/data. Operate IAC80 (Teide stellar observatory, Spain).
- ✓ Driving licence: Category B.

Academic awards and honours:

“Spin–lattice relaxations of paramagnetic Fe³⁺ in ZnO”. Selected to be included in the Physica Scripta Highlights of 2012.

Publications:

Author/Co-author on 29 peer-reviewed papers, 2 non-peer reviewed extended abstracts, and 1 highlight.

Conference presentations/organisation:

Given 7 oral and 7 poster presentations at local and international conferences. Participated in 7 international ISOLDE collaboration team meetings, 4 workshops, and 1 summer school. Organised 1 workshop.

Research grants:

Post-doc. travel grant from The Research Fund of University of Iceland (2013).

Ph.D. student travel grant from The Research Fund of University of Iceland (2011).

ENSAR funding to visit CERN for research (2008 – 2012).

Other work experiences:

- ✓ June 2001 – July 2001: Machine operator (fulltime summer job). Sauer-Danfoss A/S.
- ✓ Sep. 2000 – Jan. 2001: Machine operator (fulltime job). Danfoss A/S.

Language skills:

- ✓ Danish: mother tongue.
- ✓ English: fluent both written and spoken.
- ✓ German: fluent both written and spoken.
- ✓ Spanish: basic level.