

CURRICULUM VITAE FOR TOMAS BRAGE

Introduction

Personal

I was born in 1959, in the small town of Västervik about 300 kilometres south of Stockholm. I am divorced, but have two children at the age of 21 and 25. I live in a flat in downtown Lund, in a “semi-collective” accommodation. I have lived for seven years in the United States (in Nashville, Tennessee and outside Washington DC), but also shorter times in the United Kingdom, Ireland, Japan and China. I have been fortunate to work for Lund University during the last 20 years.

Homepage

I have described my interests, publications and collected other information under my personal homepage:

<http://www.fysik.lu.se/english/education/staff/tomas-brage/>

I will here briefly summarize what I assume is interesting information about myself. After a list of degrees, awards and positions, I give lists linked to my interests – Education and Didactics, Research in Physics, Gender and Equal Opportunities, Outreach, and finally Internationalization.

Degrees and Awards

1983 Master of Science in Physics and Mathematics, Lund University.

1988 Ph D in Atomic Physics, Lund University. (*Theoretical Studies of Electron Correlation and Relativistic Effects in Complex Atomic Systems.*)

1995 Docent in Physics, Lund University.

2002 Pedagogical Prize from Science Students (LUNA) at Lund University.

2003 Pedagogical Prize from joint student association (LUS) at Lund University.

2005 ETP (Excellent Teaching Practice) at the Science Faculty of Lund University.

2012 The Gunilla Jarlbro-price for important contributions to the work for equality at Lund's University.

Postgraduate Positions

1989-1993 Research Assistant Professor of Computer Science, Vanderbilt University, Nashville, Tennessee, USA.

1994-1996 Research Associate, Goddard Space Flight Center and National Research Council, NASA Goddard Space Flight Center, Greenbelt, Maryland, USA.

Summer 1998 Visiting Researcher at High Altitude Observatory, Boulder, Colorado, USA.

1996-1999 Assistant Professor (adjunkt), Department of Physics, Lund University.

1999 and 2000 Visiting Scientist at Riken laboratory, Tokyo, Japan.
1999-2008 Senior Lecturer/Associate Professor (Universitetslektor), Department of Physics, Lund University.
1999 – Director of Undergraduate Teaching (Studierektor), Department of Physics, Lund University.
2009 – Visiting Scientist at Institute of Modern Physics, Fudan University, Shanghai, China.
2009 – Professor of Physics (Professor), Department of Physics, Lund University.
2009-2010 Director of Education (Huvudstudierektor) in Physics, Science Faculty, Lund University
2010 – Director of Education (Huvudstudierektor) for Physics and MAX-lab, Science Faculty, Lund University

Education and Didactics

Education, Didactics – Boards etc

2002, 2003, 2005 – pedagogical prizes and ETP (see above)
2005 – Member of the Pedagogical Academy of the Science Faculty at Lund University.
2010 – Member of the Educational Board (Utbildningsnämnden), Science Faculty, Lund University.
2010 – 2015 Coordinator at the Physics Department for teacher education, to be started fall 2012.
2010 – Member of the steering group for Didactics and Teacher Education, Science Faculty, Lund University
2016 – Representative for Physics on the steering board for teaching education at Lund University.

Supervised PhD-students – Didactics

2013 – 2015 Annalena Holm, main supervisor (Licentiate)

Research in Physics

Research Grants

2001-2003 Swedish Natural Science Research Council (NFR) 488139 SEK.
Title: *Atomic Structure Calculations – an Integrated Part of Space-Based Astrophysics Research.*

2005-2007 Swedish International Development Cooperation Agency (SIDA) and Swedish Research Council (Vetenskapsrådet) 600000 SEK.

Title: *ASIA, China. Atomic physics based on the Shanghai electron beam ion trap (EBIT)*

2006-2008 Swedish Research Council (Vetenskapsrådet) 405 000 SEK.

Title: *Computational Atomic Physics with Applications to Astrophysics and EBITs*

2009-2011 Swedish Research Council (Vetenskapsrådet) 1 275 000 SEK.

Title: *Nästa generations förbjudna och oväntade övergångar i joner, med tillämpningar för EBITs och inom astrofysik och fusionsforskning.*

2010-2013 Swedish Institute (Svenska Institutet) - Visbyprogram 516 000 SEK.

Title: *Computational Atomic Structure with Applications to Astronomy and Plasma Physics.*

2016-2019 Swedish Research Council (Vetenskapsrådet) 3 700 000 SEK. (co-I)

Title: *External Interaction and Nuclear Effects in Atoms for Plasma Diagnostics and Fundamental Physics.*

Supervised PhD-students – Physics

1988 – 1993 Grzegorz Miecznik, co-supervisor (acting as main supervisor)

1998 – 2003 Martin Andersson, main supervisor

2012 – 2016 Jon Grumer, main supervisor

2016 – Asimina Papoulia, main supervisor

Publication list (185 entries and 2524 citations in google scholars.)

See my homepage or:

Google scholars: <https://scholar.google.se/citations?user=ejCJqboAAAAJ&hl=sv&oi=ao>

Lucris:

<http://portal.research.lu.se/portal/en/publications/search.html?search=Tomas%20Brage&page=1>

Invited talks – Physics (last year)

2016 – 12th International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasma, July 4-7, Sao Paulo, Brasil: *From optical spectroscopic accuracy to forbidden-line spectroscopy.*

2016 – 18th International Conference on Physics of Highly Charged Ions, September 11-16, Kielce, Poland: *From optical spectroscopic accuracy to forbidden-line spectroscopy.*

Published books

1998 – Computational Atomic Structure: an MCHF approach (1997), IOP, ISBN 0 7503 0374 3, co-author.

Gender and Equal Opportunities

Memberships, boards etc

2000-2005 member of the operative group against sexual harassment at Lund University.

2002-2009 convener of the equal opportunity and fair treatment group at the Department of Physics, Lund University.

2005 – Member of the steering committee (Ledningsgruppen) for equal opportunity, diversity and fair treatment at Lund University. Representing Faculty of Science.

2007 – Developing and Teaching of the anti-discriminatory method “The Human Beyond” (Se Människan) at several groups in and outside Lund University (see my homepage).

2007 – 2015 Convener of the Gender Certification project at the Department of Physics, Lund University.

2012 – 2013 Developing the “Anti-discriminatory Education” at Lund University.

2012 – Advisor for the “Gendered Innovation” project of the European Commission and Stanford University (see <https://genderedinnovations.stanford.edu/>).

2014 – Project leader of the Core Value Project at Lund University (report of the project can be found at my homepage in Swedish and English).

2015 – Chair of the equal opportunity board of the Science Faculty, Lund University.

2015 – Member of the GenderSTE (Gender in Science, Technology and Engineering) network (see <http://www.genderste.eu/>)

2016 – Member of the steering committee for gender issues of the League of European Research Universities (LERU).

2016 – Member of the expert advisory board of the Gender Equality Network in European Research Area (GENERA) project (see <http://genera-project.com/>)

Invited talks – Gender

See list on personal homepage, or direct link:

http://www.fysik.lu.se/fileadmin/fysikportalen/UDIF/Brage/timetable_2013-170201.pdf

Published books

2016 – Core values work in the academia – with experiences from Lund University (ed.) (2016), Lund University, ISBN 978-91-7623-882-0), editor.

Outreach

Outreach and Recruitment of Students

- 1998 – Participating in Physics and Lasershow for high school students during several years.
- 2005 – Project manager of Lune-project: Collaboration between Lund University and the Swedish National Encyclopedia on science shows for pupils between 12 and 16 years old.
- 2007 – Co-organizer of “Naturvetarstråket” for the Science Faculty during the Culture Night.
- 2009 – 2014 Chair of the “outreach board” of the science faculty of Lund University.

Internationalization

Internationalization

- 1996 – 2016 International coordinator of Physics at Lund University, handling approximately 40 incoming students and 5-10 outgoing exchange students per year.
- 1996 – 2016 – International coordinator for Master’s students in Physics at Lund University, handling about 40 accepted students per year.
- 2011 – 2014 International advisor to the Science Faculty at Lund University
- 2012 – 2014 Member of Internationalization committee of Lund University.
- 2012 – 2014 Member of the China strategy committee of Lund University.
- 2016 – Member of the Asien strategic project group of Lund University