

## Curriculum Vitae

**Name** Stefania Xella  
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**Birth** 03 January 1971, Bologna, Italy  
**Marital status** Married to Steen Hansen (2000), children: Massimo (2001) and Sara (2004).  
**Languages** Italian and English: fluent. Danish: good.

1989-1995 Undergraduate studies in Physics at the University of Bologna, Italy.  
1995 **Master degree** in high energy experimental particle physics on beauty quark physics.  
Thesis title: Measurement of the forward-backward asymmetry in electron-positron into b anti-b quark events with the OPAL experiment at LEP.  
Result: 110/110 cum laude.

1996-1999 Graduate studies in Physics at the University of Copenhagen, Niels Bohr Institute, Denmark.

1999 **Ph.D. degree** in high energy experimental particle physics. Ph.D. work focuses on software trigger development and charmonium physics.  
Thesis title: Hera-B experiment, preparation and first results.

1999-2003 **Research Associate** at Rutherford Appleton Laboratory, United Kingdom.  
Work focuses on the BaBar experiment, developing data acquisition software and analyzing data to measure the violation of CP symmetry. Work focuses also on the International Linear Collider (ILC) project, on the design of a new vertex detector and on the development of software procedures to detect heavy flavor quarks with this new type of detector.

1999-2000 1 year Long Term stay at SLAC (USA). Work focuses on data acquisition and calibration procedure development for BaBar. Elected data acquisition manager for a period of 6 months. Run control expert on-site for full year.

2001-2002 **Maternity leave** for the birth of Massimo (5 months).

2003-2006 **Research Assistant** and **Swiss National Foundation (SNF) Fellow** at the University of Zürich, Switzerland. Work focuses on the H1 experiment, data analysis to search for new physics involving tau leptons and development of tau lepton identification methods. Work focuses also on the International Linear Collider (ILC) project.

- 2004        **Maternity leave** for the birth of Sara (8 months).
- 2005,Jan.   **Winner of the Marie Heim Vogtlin (MHV) Fellowship**, meant for women restarting their scientific career after a break for maternity leave. Duration: 3 years.
- 2006,June   Terminated MHV Fellowship due to my husband's new employment at the University of Copenhagen.  
**PostDoc** at the Niels Bohr Institute, University of Copenhagen. Work focuses on the ATLAS experiment, on trigger development (Event Filter and tau trigger) and on preparation of data analysis for Higgs searches, focusing on Higgs decay final state into tau leptons.
- 2007        Nominated for advisory board of the CERN strategy council, representing the younger generation of particle physicists.
- 2008        **Winner of the FREIA grant**, Assistant professor at Niels Bohr Institute, becomes Associate professor in 2009. FREIA grant provides salary for 2008/2009, plus one PhD grant (Pavel Jez) and 500.000 DKK budget.
- 2008 -        ATLAS tau trigger coordinator
- 2008, 2009   ATLAS trigger release coordinator (3 periods of roughly 2 months at a time)
- 2008-2009   Adjunkt-Pedagogikum (one year)
- 2009, Apr   Organizer of ATLAS workshop on tau lepton physics, hosted by Niels Bohr Institute at Copenhagen University (80 participants)
- 2009, May   Attending course on Research Group Leaders, offered by Copenhagen University
- 2009, June   **Winner of the FNU grant for Women Head of Research** (Kvindelige ForskningsLedere). This grant provides 6 Million DKK for hiring a PostDoc and a PhD student, and starting a research group on discovery of new particles at the ATLAS experiment at the Large Hadron Collider (CERN)

## Teaching experience

### Students supervision:

- 1) **Ilaria Foresti**, University of Zurich, (Ph.D. student) 2003-2004 **Responsibility:** Advisor.
- 2) **Linus Lindfeld**, University of Zurich, (Ph.D. student) 2004 **Responsibility:** Co-advisor.
- 3) **Zofia Czyczula**, University of Copenhagen (Ph.D. student) 2006 – 2009  
**Responsibility:** Co-advisor.
- 4) **Francesca Sarri**, University of Pisa (Ph.D. student) 2006-2008 **Responsibility:** Collaborator.
- 5) **Michelangelo Giorgi**, University of Rome (Master student) September 2007-August 2008.  
Erasmus exchange student.  
**Responsibility:** Main advisor.
- 6) **Ursula Sondergaard**, University of Copenhagen (Bachelor student) September 2007-April 2008  
**Responsibility:** Main advisor.
- 7) **Philip Sommer**, University of Copenhagen (Independent project student) April-May 2008  
**Responsibility:** Main advisor.
- 8) **Pawel Klimek**, University of Copenhagen (Master student) September 2008- September 2009.  
**Responsibility:** Main advisor.
- 9) **Pawel Klimek**, University of Copenhagen (Independent project student) February-April 2009  
**Responsibility:** Main advisor.
- 10) **Pavel Jez**, University of Copenhagen (PhD student) September 2008- September 2011.  
**Responsibility:** Main advisor.
- 11) **Peter Kadlecik**, University of Copenhagen (PhD student) October 2008- September 2011.  
**Responsibility:** Co-advisor.
- 12) **Ask Jensen**, University of Copenhagen (Master student) September 2009- September 2010.  
**Responsibility:** Main advisor.

### Courses / laboratory under my responsibility:

- 2008/2009 **Experimental Particle and Nuclear physics**, at University of Copenhagen. Responsibility : lecturer and course organizer.
- 2007/2008 **Experimental Particle and Nuclear physics**, at University of Copenhagen. Responsibility : co-lecturer.
- 2005,2006 **Phenomenology of Particle Physics**, at the University of Zürich. Responsibility : co-lecturer, exercises.
- 2004, 2005 **Physics Laboratory**, at the University of Zürich. Responsibility: assistant to the students.

## Further education

### Course in pedagogy:

#### Higher education program for assistant professors and postdocs (AdjunktPædagogikum):

2008 Introduction to University Pedagogy (IUP), at Copenhagen University.

Workload: 65 hours.

Lectures, group work, project development and write up.

2008/2009 Kursus i Naturfaglig Universitetspædagogik og Didaktik (KNUD), at Copenhagen University.

Workload 120 hours.

Lectures, group work, project development and write up.

2008/2009 Practical part (supervision).

Workload: 65 hours.

Supervision by external supervisors (pedagogical and internal), and supervision to/from peer assistant professors/postdocs. 5 supervision sessions (few hours for pre-supervision session, then lecture, then few hours of post-supervision session).

#### Grade: Passed.

(certificates and supervision statement included)

An electronic version of my teaching portfolio, including the two projects write-up, can be viewed at

<http://www.nbi.dk/~xella/portfolio.pdf>

#### Course in Research group leaders (ForskningsGruppeLedere):

2009 April (2 days Internat) + May (2.5 days course work) + June (2.5 days Internat)

## Outreach

### Articles:

Nordic Space ([www.nordicspace.net](http://www.nordicspace.net))  
Issue on Small particles and short waves (May 2009)  
Finding the Secret Code of Nature

Kvant, Tidsskrift for Fysik og Astronomi  
September 2008 (nr. 3), TemaNummer om Large Hadron Collider  
Jagten på Higgs partiklen

MagisterBladet  
Issue on famous formulas (June 2009)  
 $E=mc^2$

UniversitetsAvisen  
Kvinde, kend din partikel (Sept 2009)

### Radio:

P1 , Forskerpar, May 2008 (1 hour)  
P1, LHC startup, September 2008 (half hour)

### Public Presentations:

High School , MasterClass 2009  
“The Particle Odissey”

NBI Kickoff meeting (Jan 2008)  
“Partikel Fysik og jagten for Naturens forsvundne symmetrier”