

## CURRICULUM VITAE

### Johan Alwall

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#### WORK EXPERIENCE

##### Research positions:

- ◆ **Postdoc at the Stanford Linear Accelerator Center, Menlo Park, California, USA**  
Oct 2006-present. 3-year postdoc position at the Theoretical Physics group at SLAC, first 2 years financed by the Swedish Research Council. Head of research group: Prof. Michael Peskin  
*Development of high-precision Monte Carlo simulation programs. Studies of Standard Model and Beyond the Standard Model physics processes and analysis techniques for the LHC and Tevatron. Development of model-independent methods for searches and analysis of New Physics. Collaborations with colleagues around the US and in the UK, Belgium, Sweden and Japan.*
- ◆ **Postdoc at Université Catholique de Louvain, Louvain-la-neuve, Belgium**  
Oct 2005-Sep 2006. 1-year postdoc position at the Center for Particle Physics and Phenomenology at UCL. Advisor: Prof. Fabio Maltoni.  
*Development of the automatized Monte Carlo simulation program MadGraph/MadEvent, especially inclusion of models of physics beyond the Standard Model and matching of jets between matrix elements and parton showers. Development of interfaces between simulation programs. Seminar organizer.*

##### Guest researcher invitations:

- ◆ **Visiting researcher at IPMU, Tokyo, Japan**  
Oct-Dec 2008. *Invited guest researcher, working with profs. Hagiwara and Nojiri*

##### Non-research positions:

- ◆ **System developer at Syncom Financial Systems AB, Uppsala**  
Aug 2000-June 2001. *Development of distributed client-server systems for financial applications*

#### AWARDS AND SCHOLARSHIPS:

- ◆ **The The Michelson Postdoctoral Prize** "to an outstanding junior scholar active in any field of Physics", awarded annually by the Physics Department at Case Western Reserve University, 2009. See <http://www.phys.cwru.edu/events/mppl.php>
- ◆ **Postdoctoral scholarship from the Swedish Research Council** for a two year position at the Stanford Linear Accelerator Center, CA, USA, 2006-2008
- ◆ **The Wallenberg grant of the Vice Chancellor of Uppsala University** for conference travel, 2005
- ◆ **The Victor F. Weisskopf diploma** at the 42nd International School of Subnuclear Physics, Erice, Italy, 2004
- ◆ **The Geijer-Waern scholarship** "for exceedingly merited student", Uppsala University, 1997-2000

## EDUCATION (AT UPPSALA UNIVERSITY)

<b>Ph.D. in Physics</b> 23 Sep 2005	Ph.D. in Physics, specializing in High Energy Physics (Teknologie doktor i fysik), 2001-2005. Advisors: Prof. Gunnar Ingelman, Dr. Johan Rathsman
<b>M.Sc. in Physics</b> Dec 2000	M.Sc. in Engineering Physics (Civilingenjör i Teknisk Fysik), 1994-2000.
<b>Bachelor in Philosophy</b> Dec 2000	Three semesters of Philosophy, two semesters of Classical Greek, one semester of Linguistics (Fil. kand. i teoretisk filosofi), 1995-2000.

## Language skills

<b>Swedish:</b>	Native language
<b>English:</b>	Fluent in speech and writing
<b>French:</b>	Close to fluent in speech and writing
<b>German, Latin:</b>	High school level

## INVITED TALKS

Invited talks at 22 conferences and 29 seminars since 2005, the latest of which are:

- ◆ **West Coast LHC Theory meeting 2009**, Riverside, California, Apr 2009
- ◆ **HEFTI Missing ET workshop**, UC Davis, California, Apr 2009
- ◆ **IPMU Focus Week on Masses and Spin of New Physics**, IPMU, Tokyo, Japan, Mar 2009
- ◆ **KITPC BSM Workshop**, Beijing, China, Oct 2008
- ◆ **URA Workshop**, Fermilab, Illinois, Sep 2008
- ◆ **LHC: Beyond the Standard Model Signals**, Aspen Center for Physics, Colorado, Jul 2008
- ◆ **SUSY 2008**, Seoul, South Korea, June 2008 (plenary talk)
- ◆ **Berkeley workshop on Boson + jets production**, Berkeley, California, Mar 2008
- ◆ **Physics of the LHC**, KITP, Santa Barbara, California, Feb 2008 (seminar and discussion)
- ◆ Seminar at NTU, Taipei, Taiwan, May 18, 2009
- ◆ Seminar at Caltech, Pasadena, California, May 11, 2009
- ◆ Michelson Postdoctoral Prize Lectures at Case Western, Cleveland, Oakland, April 13-17, 2009
- ◆ Seminar at Harvard, Boston, Massachusetts, April 7, 2009
- ◆ Fermilab Theory seminar, Fermilab, Illinois, Feb 26, 2009
- ◆ Seminar at University of Pittsburgh, Pennsylvania, Feb 24, 2009
- ◆ Seminar at Florida State University, Tallahassee, Florida, Jan 28, 2009
- ◆ Seminar at Southern Methodist University, Dallas, Texas, Jan 22, 2009
- ◆ Seminar at University of California, Irvine, California, Jan 12, 2009
- ◆ Seminar at KEK, Tsukuba, Japan, Dec 1, 2008
- ◆ Seminar at IPMU, Tokyo, Japan, Oct 16, 2008
- ◆ Seminar at University of California, Los Angeles, California, Sep 23, 2008
- ◆ Seminar at KIAS, Seoul, South Korea, Jun 23, 2008
- ◆ Seminar at Lund University, Sweden, Jun 2, 2008

**TEACHING EXPERIENCE**

**Teaching at Uppsala University, unless stated otherwise:**

Year	Name of course	Level	Teaching ass.	Lecturing	Type of teaching
2008	SLAC LHC Workshop for graduate students	Postgraduate		2 h	Lecture on QCD jet radiation, 15 Aug 2008
2008	Supersymmetry for graduate students	Postgraduate		2 h	Lecture on Supersymmetry breaking mediation scenarios, 19 Mar 2008
2006	On CKKW-type matching of matrix elements and parton showers	Postgraduate	4.5 h	6 h	Lectures and tutorials at HELAS/MadGraph school/workshop, KEK, Japan
2003-2005	Decay of the Muon, part of the course Elementary Particle Physics	Advanced		6 h/year	One-day combined lecture/exercise
2002-2005	Nuclear and Particle Physics	Advanced	~48 h/year		Three-day laboratory exercise
2002-2004	Advanced Quantum Mechanics	Advanced	8 h/year		One-day computer-based exercise
2003	Multi-dimensional Calculus	Basic	24 h		Problem sessions
2002-2003	Calculus	Basic	24 h/year		Problem sessions
2000	Logic and Proof Techniques	Basic	24 h		Problem sessions
1999	Linear Algebra	Basic	24 h		Problem sessions

→ Highly appreciated in student evaluations.

**EXTRACURRICULAR ACTIVITIES**

- ◆ **PhD student representative** in the Department Board, Dep. of Radiation Sciences, Uppsala University, 2003-2005
- ◆ **Musical leader** of the student orchestra Glansbandet, Uppsala, 2002, 2004 and 2005
- ◆ **Teaching assistant at the Department of Mathematics, Uppsala University**  
 Mar 1999-June 2000. *Teaching at problem sessions, exam correction*
- ◆ **Clarinet teacher at Österledskyrkan Music School, Uppsala**  
 Mar 1997-June 1999. *Teaching of students aged 9-15 years*
- ◆ **Translator at Translitera Media AB, Uppsala**  
 June-Aug 1996, full-time. *Translation of manuals and computer programs from English to Swedish*