

## ***Curriculum vitae***

**Jason P. Beech Licentiate of Physics**

### ***Personal Information***

Jason Paul Beech

Lund University / Department of Physics / Solid State Physics

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Email: Jason.beech@ftf.lth.se

Citizenship: British

Married and father of two children born 1996 and 1999.

### ***Education***

Nov 2009      Awarded Licentiate Degree at Lund University

2006-present      Physics and chemistry of nanostructures – Copenhagen University more info at [www.nano.ku.dk/pcn](http://www.nano.ku.dk/pcn)

Processing and device technology - Solid State Physics, Lund University

High Pressure Liquid Chromatography - Department of chemistry, Lund University

Animal cell culturing - Department of cell biology, Lund University

Scanning Probe Microscopy – Solid State Physics, Lund University

Microfluidics – Department of electrical measurements, Lund University

Computerized Data Acquisition - Department of electrical measurements, Lund University

Technical Writing for Publication – Lund University

Leadership and team development – Linnaeus graduate school

Introduction to Teaching and Learning in Higher Education – Lund University

How to Speak and Present in Front of an Audience – Nano2Life, European Network of Excellence, Champéry, Switzerland.

- 2006-present Doctoral candidate. Nano-bio technology.  
Member of the Linnaeus Graduate School
- 2005-2006 Employed as a project researcher to continue work on deterministic lateral displacement devices together with other fluidics projects within NaPa (Emerging nano patterning techniques), a European Integrated Project within Framework 6.
- Nov 13-14 2005 Short course on Microsystems technology – Nanotech Montreux
- Aug 2005 Awarded M. Sc. Physics at Lund University.
- 2004-2005 Masters project carried out at Lund University under the supervision of Dr. Jonas Tegenfeldt - "Elastic Deterministic Lateral Displacement Devices – Stretching the Limits of Separation" , <http://nanobio.ftf.lth.se/~tegen/theses/beeceh2005.pdf>
- 2001-2005 Followed the physics programme at Lund University.

## ***Publication Summary***

- 7 peer-reviewed published papers  
3 papers in writing  
18 conference contributions

## ***Teaching***

### **Co-supervisor of following projects:**

- Stefan Holm:** "Separating Trypanosoma from Blood" (to be completed by Jan 2010)  
**Jon Lind:** "Synchronization by size-fractionation on a chip." (Sept 2008)  
**Hanna Nicklasson:** "Synchronization by size-fractionation on a chip." (June 2007)  
**Anette Lundqvist:** "Deterministic separation of soft micro-spheres" (June 2007)  
**Pelle Sommansson:** "Deterministic Cell Separation" (September 2006)

## ***Teaching***

### **2010**

Experimental Biophysics (lab and project supervisor) at Lund University (codes TNF060, FYS241, TEK265, and FAF010F) <http://nanobio.ftf.lth.se/~biokurs/>

### **2009**

Experimental Biophysics (lab and project supervisor) at Lund University (codes TNF060, FYS241, TEK265, and FAF010F) <http://nanobio.ftf.lth.se/~biokurs/>

Geometrisk Optik (geometrical optics) Lab Supervisor – Lund University

Kretsprocesser (Cyclic Processes) Lab Supervisor – Lund University

Högskola Nästa (University Next) Mentor - A programme in which high school students do a project over a six month period under the mentorship of a PhD student.

### **2008**

Kretsprocesser (Cyclic Processes) Lab Supervisor – Lund University

Experimental Biophysics (lab and project supervisor) at Lund University (codes TNF060, FYS241, TEK265, and FAF010F) <http://nanobio.ftf.lth.se/~biokurs/>

### **2007**

Experimental Biophysics (lab and project supervisor) at Lund University (codes TNF060, FYS241, TEK265, and FAF010F) <http://nanobio.ftf.lth.se/~biokurs/>

### **2006**

Experimental Biophysics (lab and project supervisor) at Lund University (codes TNF060 and FYS241) <http://nanobio.ftf.lth.se/~biokurs/>

### **2005**

Experimental Biophysics ((lab and project supervisor)) at Lund University (codes TNF060 and FYS241) <http://nanobio.ftf.lth.se/~biokurs/>

## ***Grants and Scholarships***

2009 Travel grant from Kungliga Fysiografiska Sällskapet to present three posters at Microtas South Korea 16kSEK.

- 2008 Travel grant from Kungliga Fysiografiska Sällskapet to present two posters at Microtas San Diego and to visit labs and give presentations at the departments of two collaborators (and coauthors), Heiner Linke at the University of Oregon and Brian Long at the Oregon Health and Science University 15kSEK.
- 2006 Travel grant from Kungliga Fysiografiska Sällskapet to give oral presentation at Microtas Tokyo 16kSEK.

### ***Industrial Collaborations***

2006 – 2009: Åmic, Uppsala Sweden – microfluidics in plastic substrates

### ***Non Academic Merits***

- 2005 - 2006 Chairman of Skånes Klätterklub (Skaniass rock climbing club) – a non-profit organization with 350 members.
- 2002 - present Authorized (of Swedish Climbing Association) Rock climbing instructor and youth trainer.