

# CURRICULUM VITAE

MICHAEL DAVID PEDERSEN

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## Personal

*Address:* **10/17 Blair Street, Edinburgh EH1 1QR, Scotland**  
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*Email:* **michael.d.pedersen@gmail.com**  
*Born:* **March 15 1981, Aarhus, Denmark**  
*Nationality:* **British**  
*Languages:* **Danish (mother tongue), English (fluent) and German (basic)**  
*Driving license:* **Standard car**  
*Interests:* **Water sports (surfing and kayaking), music (piano and guitar)**

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## Education

2006 - PhD in computational systems biology, University of Edinburgh, Scotland  
2005 - 2006 MSc in computer science and mathematics, Aalborg University, Denmark  
2004 - 2005 Minor in mathematics, University of Leeds, England  
2001 - 2004 BSc in computer science, Aalborg University, Denmark  
1997 - 2000 Mathematical high school, Ringkøbing Gymnasium, Denmark  
1989 - 1997 Primary and secondary school, Ringkøbing Skole, Denmark

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## Employment

Summer 2008 Research Intern, Computational Science group, Microsoft Research Cambridge, England  
2004 - 2005 Software developer (part time), Geosoft, Leeds, England  
2004 - 2005 Sub-warden (part time), Oxley Residences, Leeds, England  
Summer 2001 Animation of educational biochemistry, Leeds, England  
2000 - 2001 Loud speaker production, Harman Consumer Manufacturing, Ringkøbing, Denmark  
1999 - 2000 IT assistant (part time), Ringkøbing Gymnasium, Denmark  
1998 - 1999 Bakery worker (part time), Vesterstrandgades bageri, Ringkøbing, Denmark

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## Teaching

2008 Tutor in Object Oriented Programming, semester 2, University of Edinburgh, Scotland  
2008 Tutor in Computation and Logic, semester 1, University of Edinburgh, Scotland  
2006 Tutor in Computability and Complexity, semester 5, Aalborg University, Denmark  
2005 Tutor in Syntax and Semantics, semester 4, Aalborg University, Denmark

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## Other positions (unpaid)

2007 - 2008 Danish representative in Scandinavian Society, Edinburgh, Scotland  
2004 - 2005 Secretary in FNU ("Nordic Youth Organisation"), Aalborg, Denmark  
2003 - 2004 System administrator, Aalborgkollegiet, Aalborg, Denmark  
2002 - 2004 Webmaster, Aalborgkollegiet, Aalborg, Denmark

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## Prizes and scholarships

- 2008 Krista & Viggo Petersens Fond
  - 2008 Anglo-Danish Society scholarship
  - 2007 Best poster prize, summer school at Microsoft Research Cambridge
  - 2006 Microsoft Research European PhD scholarship
  - 2004 Knud Højgaards Fond
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## Peer-reviewed publications

- 2009 Towards programming languages for genetic engineering of living cells (with Andrew Phillips), J. R. S. Interface
  - 2008 A language for biochemical systems (with Gordon Plotkin), Proc. CMSB 2008
  - 2008 Compositional definitions of minimal flows in Petri nets, Proc. CMSB 2008
  - 2007 A logical characterisation of static equivalence (with Hans Hüttel), Proc. MFPS 2008
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## Talks

- December 2008 LBS and GEC.  
Workshop at the Santa Fe Institute.
  - October 2008 A programming language for genetic engineering of living cells.  
Synthetic Biology and Modelling MSc course, Edinburgh
  - September 2008 A programming language for genetic engineering of living cells.  
Microsoft Research, Cambridge.
  - April 2008 A language for biochemical systems in synthetic biology.  
Standards and Specifications in Synthetic Biology Workshop, Seattle.
  - March 2008 A language for biochemical systems.  
Centre for Systems Biology at Edinburgh Seminar, Edinburgh.
  - December 2007 Systems biology and a language for biochemical systems.  
Interdisciplinary Tea Talk Seminar, Edinburgh.
  - October 2007 A language for biochemical systems and the systems biology markup language.  
SBML workshop 2007, Long Beach, California.
  - April 2007 A logical characterisation of static equivalence.  
MFPS 2007, New Orleans.
  - March 2007 A logical characterisation of static equivalence.  
LFCS Logic and Semantics Club, Edinburgh.
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## Programming

I have practical experience with software development using the languages Java, C++, Perl, Prolog, C# and F#.

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