

C Curricula Vitæ

Curriculum Vitæ:

Patrik Jansson, 1972-03-11

1. Higher education degree:

1995: BSc+MSc degrees in Eng. Physics + Eng. Mathematics from Chalmers, Sweden. I graduated almost two years before schedule as the best student of my year.

2. Doctoral degree:

2000: Ph.D. degree in CS from Chalmers, Sweden, on *Functional Polytypic Programming*, Advisor: Johan Jeuring.

3. PostDoc and guest research:

1998, 1998, 2001: Research visits (2 + 2 + 3 months) to Northeastern University, Boston, USA; Oxford University Computing Lab, UK; Dept. of Computer Science, Yale, USA.

4. Qualification as Assoc. Professor:

2004: Docent (Associate Prof.) degree from Chalmers, Sweden.

5. Current Employment:

2011–now: Professor, Chalmers. Research 50% (2013).

6. Prev. Employment and Education:

2001–2004: Ass. Prof. in CS, Chalmers.

2004–2011: Associate Professor, Chalmers.

7. Interruptions in research:

Parental leave with Julia (1999) and Erik (2004) for a total of one full time year.

2002–2005: Director of studies of the CS dept. On average 35% / year for three years.

2005–2008: Vice head of the CSE dept. On average 50% of full time / year for four years.

2011–2013: Head of the 5y CSE programme. On average 42% of full time / year.

8. Supervision experience:

I was PhD advisor of Ulf Norell (PhD 2007), Nils Anders Danielsson (PhD 2007) and Jean-Philippe Bernardy (PhD 2011). I worked on generic programs and proofs with Norell, on program correctness through types with Danielsson and parametricity for dependent types & testing with Bernardy. All three are still in academia. I have supervised over 20 MSc and BSc project students. I currently supervise the PhD student Jonas Duregård (Lic. Dec. 2012). I am also examiner (but not supervisor) of three other PhD students: Ramona Enache, Dan Rosén and Anton Ekblad.

I have been a member of the evaluation committee of three PhD defenses at Chalmers (T. Gedell, CSE (2008), M. Zalewski, CSE (2008), H. Johansson, Physics (2010)).

9. Awards, grants, etc.:

1991: Winner of the Swedish National Physics Olympiad

1991: Represented Sweden in the International Physics Olympiads.

1991: Represented Sweden in the International Mathematics Olympiad.

1996: Received the John Ericsson medal for outstanding scholarship, Chalmers

1997–2004: Obtained travel grants (**277k SEK** in total) from several private foundations

1998: Organiser of the first Workshop on Generic Programming (WGP), Marstrand.

2003–2005: Co-applicant on *Cover — Combining Verification Methods in Software Development* funded with **8M SEK** by the Swedish Foundation for Strategic Research.

2003–2005: Main applicant on the project *Generic Functional Programs and Proofs* funded with **1.8M SEK** by VR.

2008–present: Elected member of IFIP (International Federation for Information Processing) Working Group 2.1 on “Algorithmic Languages and Calculi”.

2009–2011: Elected member of the faculty senate, Chalmers.

2009–2011: Member of the Steering group of WGP.

2009: PC Chair for WGP

2009–2012: Co-applicant on “Software Design and Verification using Domain Specific Languages” funded with 11M SEK by the Swedish Science Council (VR, multi-project grant in strategic ICT).

2010–2013: Co-applicant and work-package leader in the Coordination Action “Global Systems Dynamics and Policy” (GSDP) funded with **1.3M EUR** by the EU (ICT-2009.8.0 FET Open).

2011–2016: Co-applicant on “RAW FP: Productivity and Performance through Resource Aware Functional Programming” (RAW FP) funded with **25M SEK** by the Swedish Foundation for Strategic Research.

2011–2013: Main applicant on the project *Strongly Typed Libraries for Programs and Proofs* funded with **2.4M SEK** by VR.

2011: Organiser of a workshop on “Domain Specific Languages for Economical

and Environmental Modelling (DSL4EE)” in Marstrand as part of GSDP.

2011–2012: Steering Committee Chair of WGP.

2012: Workshops chair of the International Conference on Functional Programming (ICFP 2012).

2012: Organised two “ICT challenges to Global Systems Science” workshops in Brussels as part of the First Open Global Systems Science Conference.

2013: Organised the “Global Systems Science 2013: Models and Data” workshop in Brussels with Mario Rasetti, Michael Resch and Ralph Dum.

2013: Workshops chair of ICFP 2013.

I have been reviewer for Journal of Functional Programming, Science of Computer Programming, Principles of Programming Languages, ICFP, IFL and several other journals and conferences.

Leadership experience:

2002–2008: Member of the steering group of the department.

2002–2005: Director of Studies for the BSc and MSc education at the CS department

2005–2008: Vice head of the CSE dept. responsible for the BSc and MSc education.

2008–2010: Deputy project leader of the IMPACT project at Chalmers (“Development of Chalmers’ New Master’s Programmes”, 30M SEK).

2009: Head of steering group of Chalmers eScience Initiative.

2011–2013: Head of the 5-year education programme in Computer Science and Engineering (Civilingenjör Datateknik, Chalmers).

2013–: Head of the Division of Software Technology, Chalmers and GU.

Curriculum Vitæ:
Jean-Philippe Bernardy,
19781215-0790

1. Higher education degree:

1996–2000: BSc+MSc degrees in CS, obtained with “la plus grande distinction” (highest distinction), Université Libre de Bruxelles, July 2000.

2. Doctoral degree:

2011: Ph.D. degree in CS from Chalmers, Sweden. Thesis: *A Theory of Parametric Polymorphism and an Application*, Advisor: Patrik Jansson.

3. PostDoc:

2011–2012: Continued development of the theory of parametric polymorphism, in collaboration with Prof. Thierry Coquand and Prof. Peter Dybjer (Chalmers).

4. Docent degree:

I plan to obtain my Docent degree before 2015.

5. Current Employment:

2012–now: Assistant Prof., Chalmers. Research 75% (2013).

6. Prev. Employment:

2007–2011: Doctoral Student, Chalmers, Sweden

2005–2007: Software Engineer, Eurocontrol (Brussels)

2000–2003: Software Engineer, PhiDaNi Software (Brussels)

7. Interruptions in research:

I have taken 56 days of parental leave during my employment as Assistant Professor.

8. Supervised PhD and PostDoc:

I am currently co-supervising Guilhem Moulin. The main supervisor is Peter Dybjer.

9. Awards, grants, etc.:

Co-applicant on *Types for programs and proofs* funded with **12 M SEK** by the Swedish Science Council.

Invited talks:

- “Unobtrusive Version Control”, Potsdam Institute for Climate Impact Research, 2007
- “Concepts and Type-Classes”, Workshop on Generic Programming, 2008
- “Yi: the Haskell editor”, Haskell Symposium, 2008
- “Testing Polymorphic Properties” European Symposium on Programming, 2009
- “Parametricity and Dependent types”, International Conference of Functional Programming, 2010
- “Proof-Irrelevance in Agda”, Agda Interest Meeting, Nottingham 2010
- “Realisability and Parametricity in PTSs”, Microsoft Research, Cambridge, 2010

- “Internalizing Parametricity”, Agda Interest Meeting, Shonan Village, Japan, 2011
- “Implementing Parametricity”, Parametricity Workshop, Glasgow 2012
- “Type-Theory in Color”, Agda Interest Meeting, Copenhagen 2012

Teaching Experience:

I have been responsible for teaching the following courses:

- Programming Paradigms (2012, 2013).
- Functional Programming Languages with Linear Types (2013).

Implementations:

I am the main developer of the Yi editor. I have made significant contributions to the following industrial-strength tools:

- Alex (Lexer generator)
- BNFC (Parser generator)
- Agda

Community roles:

- Haskell Symposium 2013, PC Member
- Haskell Implementers Workshop 2010, PC Member