

Robin Adams PhD

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Date of Birth **6 May 1978**

Education and Qualifications

- 2000 - 2004 PhD in Mathematics at the University of Manchester
 Supervisor: Prof Peter Aczel
 Thesis title: A Modular Hierarchy of Logical Frameworks
- 1996 - 2000 BA in Mathematics with Philosophy at St John's College, Oxford University
 Class I
- Awarded the Gibbs Prize for the best performance in the Mathematics paper in the Honour School of Mathematics with Philosophy
- 1986 - 1996 Birkenhead School
 A-Level in Mathematics (A), Further Mathematics (A), Physics (A),
 General Studies (A)
 A/S-Level in Electronics (A)

Employment

- Jan 2014 - present Postdoctoral researcher at Institute for Computing and Information Sciences, Radboud University Nijmegen
- Oct 2012 – Sep 2013 Freelance software developer
- Sep 2009 – Oct 2012 Lecturer in Computer Science at Royal Holloway, University of London
- Oct 2006 - Sep 2009 Research Fellow at Royal Holloway, University of London
 PI on EPSRC Postdoctoral Research Fellowship with title
 Reverse Mathematics in Dependent Type Theory
- Sep 2005 - Nov 2006 Research Assistant at Royal Holloway, University of London
 Working under Prof. Zhaohui Luo on project Pythagoras: Machine
 Support for Semi-formalised Proof Oriented Mathematics
- Mar 2004 - Sep 2005 Research Assistant at the University of Manchester
 Working under Prof. Peter Aczel on project Pythagoras: Machine
 Support for Semi-formalised Proof Oriented Mathematics

Journal Publications

- R. Adams. Lambda-Free Logical Frameworks. Accepted for publication in *Annals of Pure and Applied Logic*.
- R. Adams and Z. Luo. A Pluralist Approach to the Formalisation of Mathematics. *Mathematical Structures in Computer Science*, 21(4): 913-94, 2011.
- R. Adams and Z. Luo. Classical Predicative Logic-Enriched Type Theories. *Annals of Pure and Applied Logic* 161:1315-1345, 2010.
- R. Adams and Z. Luo. Weyl's Predicative Classical Mathematics as a Logic-Enriched Type Theory. *ACM TOCL* 11 (2). 2009.
- Z. Luo and R. Adams. Structural Subtyping for Inductive Types with Functorial Equality Rules. *Mathematical Structures in Computer Science* 18:931-972, 2008.
- R. Adams. Pure Type Systems with Judgemental Equality. *Journal of Functional Programming* 16 (2): 219-246, 2006.

Refereed Conference Papers

- Robin Adams. QPEL --- Quantum Program and Effect Logic. QPL 2014, Kyoto. In: B. Coecke, I. Hasuo, P. Panangaden (eds) *Quantum Physics and Logic* (QPL 2014). EPTCS 172, pp. 133-153, 2014.
- R. Adams. Coercive Subtyping in a Lambda-Free Logical Framework. In: J. Cheney, A. Felty (eds) *Proceedings of the Fourth International Workshop on Logical Frameworks and Meta-languages: Theory and Practice* (LFMTP 2009), McGill University, Montreal, Canada, August 2, 2009. 30-39
- R. Adams and Z. Luo. Weyl's Predicative Classical Mathematics as a Logic-Enriched Type Theory. In T. Altenkirch and C. McBride (eds.) *Types for Proofs and Programs* (TYPES 2006). LNCS 4502. Springer, 2007.
- R. Adams. Formalized Metatheory with Terms Represented by an Indexed Family of Types In Filiatre, Paulin-Mohring and Werner (eds.), *Types for Proofs and Programs* (TYPES 2004), LNCS 3839. Springer, 2006. 1-16.
- R. Adams. A Modular Hierarchy of Logical Frameworks. In Stefano Berardi, Mario Coppo, Ferruccio Damiani (Eds.): *Types for Proofs and Programs* (TYPES 2003). LNCS 3085. Springer, 2004. 1-16.

Research Grants Held

Mar – Sept 2012	EPSRC First Grant Scheme, £123k fEC. Title: Classical Dependent Type Theories
2006-09	EPSRC Postgraduate Research Fellowship in Theoretical Computer Science, £263k fEC. Title: Reverse Mathematics in Dependent Type Theory

Postgraduate Supervision

2014-present Second supervisor for PhD student Kenta Cho.

2011-12 Second supervisor for PhD students Ha Bui Viet and Tao Xue.

Organisation of Workshops

June 19 2006 One-Day Workshop on Dependent Type Theory

Co-organiser with Prof Zhaohui Luo

Part of TCS-SOUP (Theoretical Computer Science for South-Eastern Universities PhD students)

Talks and Presentations Given

- QPEL – Quantum Program and Effect Language. QPL 2014 workshop, Kyoto, Japan.
- Categorical Semantics for Logic-Enriched Type Theories. TYPES 2011 workshop, Bergen, Norway.
- A Pluralist Approach to the Formalisation of Mathematics. TYPES 2010 workshop, Warsaw, Poland.
- Lambda-Free Logical Frameworks. Fun in the Afternoon February 2010, Cambridge, UK.
- Coercive Subtyping in Lambda-Free Logical Frameworks. TYPES 2007 workshop, Cividale, Italy.
- The Equivalence of Convertibility and Judgemental Equality. TYPES 2006 workshop, Nottingham, UK
- Co-organiser of One-Day Workshop on Dependent Type Theory as part of the TCS-SOUP series of postgraduate courses. July 2006.
- A Formalisation of the Theory of Pure Type Systems in Coq. TYPES 2004 workshop, Paris, France.
- A Modular Hierarchy of Logical Frameworks. TYPES 2003 workshop, Turin, Italy.
- Lambda-Free Logical Frameworks. Presented to the Foundations Group of the Department of Computer Science, Katholieke Universiteit Nijmegen, 2003.
- Adding Logic to a Pure Type System. Presented to the Leeds and Manchester Proofs and Sets Seminar (LAMPASS), 2002.
- Decidability of Equality in a Logical Framework with Sigma-Kinds. Presented to the Leeds and Manchester Proofs and Sets Seminar (LAMPASS), 2001.

Other Skills

I am familiar with the programming languages C, C++, Perl, Java, ML, Haskell, Javascript, Python and Scheme.

I can speak conversational French and Spanish, and can read technical papers in these languages.

References

Available on request.