

VITA
Robert L. Constable

Professor
Department of Computer Science
4149 Upson Hall
Cornell University
Ithaca, New York 14853

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(607) 255-9204
rc@cs.cornell.edu
citizenship: United States

EDUCATION

1964 A.B., Princeton University, Mathematics
1965 M.A., University of Wisconsin, Mathematics
1968 Ph.D., University of Wisconsin, Mathematics
 Thesis Supervisor: Stephen Cole Kleene

ACADEMIC POSITIONS

1999–2009 Dean of the Faculty of Computing and Information Science, Cornell University
1993–1999 Chair, Computer Science Department, Cornell University
1978–present Professor, Department of Computer Science, Cornell University
1972–1978 Associate Professor, Department of Computer Science, Cornell University
1968–1972 Assistant Professor, Department of Computer Science, Cornell University
1968–1968 Instructor, University of Wisconsin

PROFESSIONAL ACTIVITIES

Editor

The Computer Journal, Oxford University Press
Journal of Logic and Computation, Oxford University Press
Formal Methods in System Design, Kluwer Academic Publishers
Journal of Symbolic Computation, Academic Press
Logical Methods in Computer Science, Creative Commons

Services

IT Deans (CRA-Deans)(2000–present)
Microsoft Faculty Fellows Committee (2005–present)
National Academy of Science, Computational Thinking for Everyone (2008–present)
Science 2020 Forum (2006)
Director NATO Summer School at Marktoberdorf (1989–2009)
Elected member Computing Research Association (CRA) Board (2005–2008)

General Chair, LICS (1991–1994)

Association for Symbolic Logic, elected member of ASL Council (1995–1998)

Awards

ACM Fellow (1994)

John Simon Guggenheim Fellowship (1990–1991)

Outstanding Educator Award (1987)

CORNELL UNIVERSITY

Founding Dean of the Faculty of Computing and Information Science (1999–2009)

Chairman of Computer Science Department (1993–1999)

Director, PRL Project (1979–present)

Cognitive Studies Executive Committee (1987–1993)

Computing and Information Science Task Force (1999)

Research Initiatives Task Force (1997–98)

Task Force on Mathematics (1994–95)

Search Committee, Dean of Engineering (1992)

Director of Graduate Studies, Computer Science (1976–79)

PUBLICATIONS MOST RELEVANT TO RESEARCH

1. Innovations in Computational Type theory using Nuprl. In *Journal of Applied Logic* 4, 2006, pages 428–469 (with PRL Group).
2. Formal Foundations of Computer Security. In *NATO Science for Peace and Security Series, D: Information and Communication Security*, Vol. 14, 2008, pages 29–52, (with Mark Bickford).
3. Knowledge-based synthesis of distributed systems using event structures. In *Proceedings of the 11th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR 2004)*, 2005 (Lecture Notes in Computer Science, vol. 3452), pages 449–465 (with Mark Bickford, Joseph Y. Halpern, and Sabina Petride).
4. A Graph-Based Approach towards Discerning Inherent Structures in a Digital Library of Formal Mathematics. In *International Conference on Mathematical Knowledge Management, Lecture Notes in Computer Science*, Springer-Verlag, 2004 (with Lori Lorigo, Jon Kleinberg, and Richard Eaton).
5. Types in Logic, Mathematics and Programming. In *Handbook of Proof Theory*, ed S. R. Buss, Chapter X, pages 650–757, Elsevier Science B.V., 1998.

RECENT PUBLICATIONS

1. Extracting the Resolution Algorithm from a Completeness Proof for the Propositional Calculus. To appear in *Proceedings of Symposium on Logical Foundations of Computer Science*, Cornell University Technical Report 2006-2061, 2007 (with W. Moczydlowski).
2. Using Formal Reference to Enhance Authority and Integrity in Online Mathematical Texts. In *Journal of Electronic Publishing*, Summer 2006, vol. 9, no. 2, 2006 (with L. Lorigo and S. Allen).
3. Recent Results in Type Theory and Their Relationship to Automath. In *Thirty Five Years of Automating Mathematics*, F. Kamareddine (ed.), pages 1–11, Kluwer Academic Publishers, 2003.
4. MetaPRL—A Modular Logical Environment. In *Proceedings of 16th International Conference on Theorem Proving in Higher Order Logics (TPHOLs'03)*, D. Basin and B. Wolff (eds.) LNCS 2758, pages 287–303, Springer-Verlag, 2003 (with PRL Group).
5. Naive Computational Type Theory. In *Proof and System-Reliability*, editors H. Schwichtenberg and R. Steinbrueggen, NATO Science Series III, International Summer School Marktoberdorf, Kluwer, Amsterdam, 2002, pages 213–260.
6. Building Reliable, High-Performance Systems from Components. In *Proceedings of 17th ACM Symposium on Operating System Principles (SOSP'99)*, *Operating Systems Review*, vol. 34, no. 5, pages 80–92, 1999 (with Xiaoming Liu, Christoph Kreitz, Robbert van Renesse, Jason Hickey, Mark Hayden and Ken Birman).

Ph. D. STUDENTS ADVISED

1969 – Allan B. Borodin	1985 – Ryan D. Stansifer	1995 – Paul Jackson
1970 – Forbes D. Lewis	1985 – Robert W. Harper	1997 – Rod Moten
1972 – Robert V. Harris	1986 – James T. Sasaki	1998 – Mark Hayden
1972 – John C. Cherniavsky	1987 – W. Rance Cleaveland	1998 – James L. Caldwell
1973 – Stephen S. Muchnick	1987 – Todd B. Knoblock	1998 – Karl Crary
1974 – Kurt Mehlhorn	1987 – Stuart F. Allen	1998 – Pavel Naumov
1976 – Edmund M. Clarke, Jr.	1987 – N. P. Mendler	2001 – Ozan Hafizogullari
1976 – Michael J. O'Donnell	1987 – Douglas J. Howe	2001 – Jason Hickey
1979 – Joseph L. Bates	1988 – Timothy G. Griffin	2002 – Ralph Benzinger
1980 – Carl Hauser	1988 – Scott F. Smith	2002 – Aleksey Nogin
1980 – Tat-Hung Chan	1990 – Chetan Murthy	2004 – Alexei Kopylov
1981 – Scott D. Johnson	1990 – David Basin	2004 – Amanda Holland-Minkley
1981 – John P. Privitera	1994 – Wilfred Chen	2006 – Eli Barzilay
1982 – Dean B. Krafft	1994 – Judith Underwood	2006 – Lori Lorigo
		2007 – Wojciech Moczydlowski