

# Ian Alistair Mason

## Personal Information:

**Born:** Melbourne, Australia, August 23<sup>rd</sup> 1958

**Nationality:** Australian citizen

**Email address:** [ian.alistair.mason@gmail.com](mailto:ian.alistair.mason@gmail.com)

**Web address:** <http://www.jlambda.com/~iam>

**Phone (work):** (650) 859 5890

## Education:

**1981 – 1986:** Stanford University, Stanford, California. Ph.D in the Special Program in Logic, Philosophy of Language and the Philosophy of Science under the supervision of Professor Solomon Feferman.

**1976 – 1980:** The Australian National University, Canberra, Australia. Bachelor of Arts with First Class Honours in Pure Mathematics under the supervision of Professor John Hutchinson.

## Experience:

**March 2011 – present:** Senior Computer Scientist, SRI International, Menlo Park, California, U.S.A.

**August 2009 – March 2011:** Director of Engineering at Loyalty Ventures Inc. Palo Alto, California, U.S.A.

**August 2005 – August 2009:** Senior Application Engineer at Loyalty Ventures Inc. Palo Alto, California, U.S.A.

**U.S. Summer 2005:** International Fellow, SRI International, Menlo Park, California, U.S.A.

**U.S. Summer 2004:** International Fellow, SRI International, Menlo Park, California, U.S.A.

**U.S. Summer & Fall 2003:** International Fellow, SRI International, Menlo Park, California, U.S.A.

**2001 – July 2005:** Consulting Software Engineer, Loyalty Ventures Inc. Palo Alto, California, U.S.A.

**2000 – July 2006:** Senior Lecturer, School of Mathematical & Computer Sciences, Division of Computer Science, University of New England, (Resigned 31/7/2006).

**1996 – 2000:** Lecturer, School of Mathematical & Computer Sciences, Division of Computer Science, University of New England, (Tenured 1999).

**U.S. Summer & Fall 1999:** Java Course Designer, Education Program for Gifted Youth, Ventura Hall, Stanford University.

**1995 – 1996:** Lecturer, Department of Applied Computing and Mathematics, University of Tasmania @ Launceston.

**1988 – 1994:** Research Associate, Computer Science Department, Stanford University, California, U.S.A.

**1991:** Acting Assistant Professor of Philosophy. Philosophy Department, Stanford University, California, U.S.A.

**1986 – 1988:** Research Associate, Laboratory for Foundations of Computer Science, Computer Science Department, Edinburgh University, Scotland, U.K.

**August 1986:** Instructor, Proving Properties of Programs, Western Institute in Computer Science, Stanford University, California, U.S.A.

**1985 – 1986:** Research Assistant to Professor John McCarthy, Computer Science Department, Stanford University.

**1983 – 1985:** Consultant Programmer to Richard Weyhrauch, Perseus Inc. Los Altos, California, U.S.A.

**Summer 1984:** Research Assistant to Professor John McCarthy, Computer Science Department, Stanford University, California, U.S.A.

**Summer 1983:** Research Assistant to Professor John Perry, Center for the Study of Language and Information. Stanford University.

**1982 – 1984:** Teaching Assistant, Philosophy Department, Stanford University, California, U.S.A.

**1982 – 1984:** Teaching Assistant for computer assisted instruction in Logic, Institute for Mathematical Study in the Social Sciences, Stanford University, California, U.S.A.

## **Service:**

**June 2000 – June 2005:** Head of Computer Science Division (Convener), School of Mathematical & Computer Sciences, University of New England.

**January 1999 – June 2005:** Postgraduate Coordinator, Computer Science Division, School of Mathematical & Computer Sciences, University of New England.

**1999 – 2001:** Member of the Faculty of Sciences Standing Committee, University of New England.

### **Awards, Honours and Societies:**

Hanna Neumann Prize for Pure Mathematics. 1979.

Summer research scholarship in mathematical logic at Monash University under the guidance of Professor J.N.Crossley to study infinitary logic, 1979-80.

Commonwealth Postgraduate Scholarship, 1981.

Fulbright Postgraduate Scholarship, 1981-1986.

University Fellow, Stanford, 1981-1985.

Member of the Association of Symbolic Logic.

Member of the European Association for Computer Science.

Associate Editor of *Lisp and Symbolic Computation – An International Journal*.

Associate Editor of *Higher-Order and Symbolic Computation – An International Journal*.

## Research Grants:

- I have been the co-investigator on several large NSF and ARPA grants while a research associate at Stanford University. They include:
  - DARPA contract N00039-84-C-0211;
  - DARPA contract NAG2-703;
  - NSF grant CCR-8718605;
  - NSF grant CCR-8915663; and
  - NSF grant CCR-8917606.
- University of Tasmania small ARC. Dr Ian Mason. *Axiomatising and implementing the logic of imperative functional programs*. 1996. \$13000.
- University of Tasmania small ARC. Dr Ian Mason. *Axiomatising and implementing the logic of imperative functional programs*. 1997. \$5000.
- University of Tasmania small ARC. Dr Ian Mason. *Axiomatising and implementing the logic of imperative functional programs*. 1998. \$6000.
- University of New England small ARC. Dr Ian Mason & Dr Carolyn Talcott. *The logic of functional programs enriched with imperative, control, and concurrent features*. 1997. \$6000.
- University of New England University Research Grant. Dr Ian Mason & Dr Carolyn Talcott. *Foundations of distributed programming*, 1997 \$4000.
- University of New England University Research Grant. Dr Ian Mason & Dr Carolyn Talcott. *Foundations of distributed programming* 1998. \$5000.
- U.N.E Vice-Chancellor Incentive grant. Dr Ian Mason. *Foundations of distributed programming* 1998. \$1000.
- University of New England University Research Grant. Dr Ian Mason & Dr Carolyn Talcott. *An Executable Logic for Modern Programming Languages* 1999. \$4500.
- University of New England Small ARC. Dr Ian Mason & Dr Carolyn Talcott. *An Executable Logic for Modern Programming Languages* 2000 \$10000
- University of New England University Research Grant. Dr Ian Mason & Dr Carolyn Talcott. *Implementing Feferman-Landin Logic* 2001 \$10000
- University of New England University Research Grant. Dr Ian Mason. *Implementing Feferman-Landin Logic* 2002 \$10000
- ARC Discovery Grant. Dr Ian A. Mason. ] *Implementing Feferman-Landin Logic* 2003 \$32000

## Professional Activity:

- I am an Associate Editor of the international journal *Higher Order and Symbolic Computation*.
- I was on the programming committee for the Australian Theoretical Computer Science Conference, CATS'2001 held at Bond University in January 2001.
- I was on the programming committee for the Asian Computing Science Conference, ASIAN2000, held November 2000 at Penang, Malaysia.
- I was on the programming committee for the Australian Theoretical Computer Science Conference, CATS'2000 held at the Australian National University in January 2000.
- I was a member of the programming committee of the first and second ACM SIGPLAN workshops on *State in Programming Languages* (SIPL 93 (Copenhagen) and SIPL 95 (San Francisco))
- I was an invited participant in both workshops on Higher-Order Operational Techniques in Semantics, (HOOTS I and HOOTS II). HOOTS I took place at Newton Institute for Mathematical Sciences Workshop on October, 1995, in Cambridge, England. While HOOTS II took place at Stanford, California in December 1997. I was an invited speaker at HOOTS IV (Montreal 2000) and my travel made possible by a generous grant from Microsoft Research Corporation.
- I was an invited participant of the workshop to study *Programs with recursively defined data structures using pointers* that was held at *Dagstuhl* in April 1998.
- I was recently the co-editor of the special issues of *Lisp and Symbolic Computation* dedicated to state in programming languages.
- I have refereed papers for many international journals, including:
  - *The Journal of the ACM*.
  - *Journal of Symbolic Logic*,
  - *Journal of Logic and Computation*,
  - *Theoretical Computer Science*,
  - *Information and Computation*,
  - *Higher Order and Symbolic Computation*,
  - *Lisp and Symbolic Computation*,
  - *The International Journal of the Foundations of Computer Science*.
- I have refereed papers for many international conferences including:

- The ACM conference on Lisp and Functional Programming.
- The ACM SIGPLAN Symposium on Partial Evaluation and Semantics-Based Program Manipulation.
- The ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages.
- The IEEE Symposium on Logic in Computer Science.
- The European Symposium on Programming.
- I have given numerous invited talks. Four recent examples are
  - *Threads & Priority Inversion – Choosing a Language to Program your Spaceship*. Invited seminar at the Computer Science Department, University of Newcastle. May, 1998.
  - *Landin – Feferman Logic* Invited talk at *Reflections – A symposium honoring Solomon Feferman on his 70th birthday* Stanford University, December 1998.
  - *Java, Security, and Formal Methods*, Invited seminar at the Computer Science Department, Macquarie University. May, 2000.
  - *A Second Glance at Landin – Feferman Logic*, Invited talk at the 4<sup>th</sup> Workshop on Higher Order Operational Techniques in Semantics (HOOTS IV), Montreal, Canada.
- I am a member of the European Association for Theoretical Computer Science.
- I am a member of the Association of Symbolic Logic.

## Teaching Experience:

### Undergraduate Teaching:

I have taught a variety of subjects at various universities. These include a graduate computer science course in programming logics at Edinburgh university, an undergraduate philosophy course in elementary logic and a graduate level mathematics course in higher order recursion theory at Stanford University, two versions of programming and problem solving (one for C++ and one for Pascal) and the third year programming languages course (C, C++, Scheme, Prolog) at the University of Tasmania. I am currently teaching two third year units, and a second year unit.

**1987:** Programming Logics. (Edinburgh)

**1991:** Introduction to Mathematical Logic. (Stanford)

**1991:** Recursion Theoretic Hierarchies. (Stanford)

**1995:** Introduction to Programming in Pascal. (Tasmania)

**1995:** Introduction to Programming in C++. (Tasmania)

**1996:** Programming Paradigms. (Tasmania)

**1996–1999:** Software Engineering. (U.N.E)

**1997–1999:** Computer Networks. (U.N.E)

**1997–2000:** Principles of Programming Languages. (U.N.E)

**1999–2001:** Non-procedural Languages. (U.N.E)

**1999–2001:** Parallel Processing. (U.N.E)

**2000–2005:** Introduction to Object Oriented Programming in Java (U.N.E)

**2001–2005:** Concurrent Programming. (U.N.E)

**2002–2005:** Web and Internet Programming. (U.N.E)

### Graduate Supervision:

I have assisted in the supervision of several graduate students:

- Along with Professor Rod Burstall I was co-advisor of Martin Ilsley's PhD thesis at Edinburgh University on *Program Transformations*.
- Along with Professor John McCarthy I was the co-advisor of Saša Buvač's PhD thesis on *The Logic of Contexts*. This fruitful collaboration yielded several papers and recently lead to Saša Buvač being appointed the cochair of the AAI-97 fall symposium on *Context in Knowledge Representation and Natural Language*.

- Along with Carolyn Talcott I assisted in the supervision of Jacob Frost's thesis at the Technical University of Denmark on *Effective Programming*.
- Along with Dr Robert Murison I was co-advisor of Brett Carson's PhD on using a Beowulf Cluster to optimize various computations in Bioinformatics, such as gene shaving, and genetic trait analysis in livestock breeding.
- Past Honours students: Tao Nelson, Brett Carson, Jonathan Ford (winner of the 2002 Woody Bledsoe Student Prize awarded at CADE-18 (within FLoC'02), Copenhagen. University Medalist), Arrin Daley, David Ng, Michael Kovacs, Ben Funnel, David Porter (University Medalist), Romulus Apolzan (University Medalist).



## Ian A. Mason's Publications:

### Books:

- [1] AGHA, G., MASON, I. A., SMITH, S., AND TALCOTT, C. L. *Foundations of Open Distributed Systems*. MIT press, Boston, 200? in preparation.
- [2] MASON, I. A. *The Semantics of Destructive Lisp*. No. 5 in CSLI Lecture Notes, Center for the Study of Language and Information, Stanford University. University of Chicago Press, 1986.
- [3] MASON, I. A., AND ODERSKY, M., Eds. *Special issue on State in Programming Languages (Part A)*, vol. 8(4) of *Lisp and Symbolic Computation*. Kluwer Academic Publishers, 1995.
- [4] MASON, I. A., AND ODERSKY, M., Eds. *Special issue on State in Programming Languages (Part B)*, vol. 9(1) of *Lisp and Symbolic Computation*. Kluwer Academic Publishers, 1996.

### Book Chapters:

- [1] A.AVRON, F.HONSELL, AND MASON, I. An Overview of the Edinburgh Logical Framework. In *Current Trends in Hardware Verifications and Automated Theorem Proving.*, G.Birtwistle and P.A.Subramanyam, Eds. Springer-Verlag, 1989. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/89banff.ps>.
- [2] MASON, I. A., AND TALCOTT, C. L. Program Transformation via Contextual Assertions. In *Logic, Language and Computation. Festschrift in Honor of Satoru Takasu (1994)*, vol. 792 of *Lecture Notes in Computer Science*, Springer, Berlin, pp. 225–254. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/94takasu.ps>.
- [3] MASON, I. A., AND TALCOTT, C. L. Feferman–Landin Logic. In *Reflections on the Foundations of Mathematics: Essays in honor of Solomon Feferman*, vol. 15 of *Lecture Notes in Logic*. Association of Symbolic Logic, 2001, pp. 299–334. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/00sf.ps>.

### Journal Articles:

- [1] A.AVRON, F.HONSELL, MASON, I., AND POLLACK, R. Using Typed Lambda Calculus to Implement Formal Systems on a Machine. *Journal of Automated Reasoning* 9 (1992), 309–354. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/92jar.ps>.
- [2] AGHA, G., MASON, I. A., SMITH, S., AND TALCOTT, C. L. A Foundation for Actor Computation. *Journal of Functional Programming* 7 (1997), 1–72. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/96jfp.ps>.
- [3] BUVAČ, S., BUVAČ, V., AND MASON, I. A. Metamathematics of Contexts. *Fundamenta Informaticae* 23, 3 (1995). Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/95fi.ps>.

- [4] CARSON, B., MURISON, R., AND MASON, I. A. Computational gains using RPVM on a Beowulf Cluster. *R News* 3 (June 2003), 21–26.
- [5] FORD, J., AND MASON, I. A. Formal Foundations of Operational Semantics. *Higher-Order and Symbolic Computation* 16 (2003), 161–202.
- [6] HONSELL, F., MASON, I. A., SMITH, S. F., AND TALCOTT, C. L. A Variable Typed Logic of Effects. *Information and Computation* 119, 1 (May 1995), 55–90. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/93ic.ps>.
- [7] MASON, I. Computing with Contexts. *Higher-Order and Symbolic Computation* 12 (1999), 171–201. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/99hosc.ps>.
- [8] MASON, I., AND TALCOTT, C. Reasoning about Object Systems in VTLoE. *International Journal of Foundations on Computer Science* 6, 3 (1995), 265–298. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/94ijfcs.ps>.
- [9] MASON, I. A. The Metatheory of the Classical Propositional Calculus is not Axiomatizable. *Journal of Symbolic Logic*. 50, 2 (June 1985), 451–457. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/85jsl.ps>.
- [10] MASON, I. A. Verification of Programs that Destructively Manipulate Data. *Science of Computer Programming* 10 (1988), 177–210.
- [11] MASON, I. A. A First Order Logic of Effects. *Theoretical Computer Science* (1997), 277 – 318. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/96loe.ps>.
- [12] MASON, I. A., SMITH, S., AND TALCOTT, C. L. From Operational Semantics to Domain Theory. *Information and Computation* 128, 1 (10 1996), 26–47. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/94opdom.ps>.
- [13] MASON, I. A., AND TALCOTT, C. L. Equivalence in Functional Languages with Effects. *Journal of Functional Programming* 1 (1991), 287–327. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/91fp.ps>.
- [14] MASON, I. A., AND TALCOTT, C. L. Inferring the Equivalence of Functional Programs that Mutate Data. *Theoretical Computer Science* 105, 2 (1992), 167–215. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/92tcs.ps>.
- [15] MASON, I. A., AND TALCOTT, C. L. Actor Languages – Their Syntax, Semantics, Translation & Equivalence. *Theoretical Computer Science* 220 (1999), 409–467. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/99tcs.ps>.
- [16] MASON, I. A., AND TALCOTT, C. L. Interaction & Interoperability. *Higher-Order and Symbolic Computation* ?? ((accepted for publication)), ??

### Refereed Conference Articles:

- [1] AGHA, G., MASON, I. A., SMITH, S., AND TALCOTT, C. L. Towards a theory of Actor Computation. In *Concur '92* (1992), vol. 630 of *Lecture Notes in Computer Science*, Springer-Verlag, pp. 565–579. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/92concur.ps>.
- [2] BUVAČ, S., BUVAČ, V., AND MASON, I. A. The Semantics of Propositional Contexts. In *Proceedings of the Eight International Symposium on Methodologies for Intelligent Systems* (1994), vol. 869 of *Lecture Notes in Artificial Intelligence*, Springer Verlag. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/94ismis.ps>.
- [3] BUVAČ, S., AND MASON, I. A. Propositional Logic of Context. In *Proceedings of Eleventh Annual National Conference on Artificial Intelligence AAAI'93* (1993), AAAI Press/ MIT Press, pp. 412–419. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/93aaai.ps>.
- [4] CARSON, B., AND MASON, I. A. ClusterGrind: Valgrinding LAM/MPI Applications. In *Proceedings of the European PVM MPI Conference, PVMMPI'05* (2005), ??, Ed., p. ??
- [5] FORD, J., AND MASON, I. A. Establishing a General Context Lemma in PVS. In *Proceedings of the 2nd Australasian Workshop on Computational Logic, AWCL'01* (2001), G. Antoniou and G. Governatori, Eds., pp. 75–91. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/01awcl.ps>.
- [6] FORD, J., AND MASON, I. A. Operational Techniques in PVS – A Preliminary Evaluation. In *Proceedings of the Australasian Theory Symposium, CATS '01* (2001), C. J. Fidge, Ed., vol. 42 of *Electronic Notes in Theoretical Computer Science*, Elsevier Science, pp. 124–142. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/01cats.ps>.
- [7] FROST, J., AND MASON, I. A. An Operational Logic of Effects. In *Proceedings of the Australasian Theory Symposium, CATS '96* (1996), pp. 147–156. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/96cats.ps>.
- [8] HONSELL, F., MASON, I. A., SMITH, S. F., AND TALCOTT, C. L. A Theory of Classes for a Functional Language with Effects. In *Computer Science Logic, Selected papers from CSL'92* (1993), E. Börger, G. Jäger, H. K. Büning, S. Martini, and M. Richter, Eds., vol. 702 of *Lecture Notes in Computer Science*, Springer, Berlin, pp. 309–326. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/92csl.ps>.
- [9] MASON, I. A. Equivalence of First Order Lisp Programs: Proving Properties of Destructive Programs via Transformation. In *First Annual Symposium on Logic in Computer Science* (1986), IEEE, pp. 105–117.

- [10] MASON, I. A. Parametric Computation. In *Proceedings of the Australasian Theory Symposium, CATS '97* (1997), J. Harland, Ed., pp. 103 – 112. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/97cats.ps> complete proofs of all claims are also available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/97cats-proofs.ps>.
- [11] MASON, I. A., AND TALCOTT, C. L. Axiomatizing Operational Equivalence in the Presence of Side Effects. In *Fourth Annual Symposium on Logic in Computer Science* (1989), IEEE, pp. 284–293. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/89lics.ps>.
- [12] MASON, I. A., AND TALCOTT, C. L. Programming, Transforming, and Proving with Function Abstractions and Memories. In *Proceedings of the 16th EATCS Colloquium on Automata, Languages, and Programming, Stresa* (1989), vol. 372 of *Lecture Notes in Computer Science*, Springer-Verlag, pp. 574–588. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/89icalp.ps>.
- [13] MASON, I. A., AND TALCOTT, C. L. Reasoning About Programs with Effects. In *Programming Language Implementation and Logic Programming, PLILP'90* (1990), vol. 456 of *Lecture Notes in Computer Science*, Springer-Verlag, pp. 189–203. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/90plip.ps>.
- [14] MASON, I. A., AND TALCOTT, C. L. Program Transformation for Configuring Components. In *Proceedings of the ACM/IFIP Symposium on Partial Evaluation and Semantics Based Program Manipulation*. (1991), pp. 297–308. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/91pepm.ps>.
- [15] MASON, I. A., AND TALCOTT, C. L. References, Local Variables and Operational Reasoning. In *Sixth Annual Symposium on Logic in Computer Science* (1991), IEEE, pp. 186–197. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/92ics.ps>.
- [16] MASON, I. A., AND TALCOTT, C. L. A Semantics Preserving Actor Translation. In *Proceedings of the 24th International Colloquium on Automata, Languages and Programming, ICALP 97*. (1997), Lecture Notes in Computer Science, Springer Verlag, pp. 369–378.
- [17] MASON, I. A., AND TALCOTT, C. L. Simple Network Protocol Simulation within Maude. In *International Workshop on Rewriting Logic and its Applications (WRLA2000)* (2000), S. Iida, Ed., Electronic Notes in Theoretical Computer Science, Elsevier Science. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/00wrla.ps>.
- [18] MASON, I. A., AND TALCOTT, C. L. IOP: The InterOperability Platform & IMAude: An Interactive Extension of Maude. In *International Workshop on Rewriting Logic and its Applications (WRLA 2004)* (2004), Electronic Notes in Theoretical Computer Science, Elsevier Science.

- [19] MASON, I. A., AND TALCOTT, C. L. Towards a Logical Analysis of Interactive Systems. In *Foundations OF Interactive Computation (FInCo 2005, Edinburgh, Scotland)* (2005), Electronic Notes in Theoretical Computer Science, Elsevier Science.

### Technical Reports:

- [1] A.AVRON, F.HONSELL, AND MASON, I. Using Typed Lambda Calculus to Implement Formal Systems on a Machine. Tech. Rep. ECS-LFCS-87-31, Laboratory for Foundations of Computer Science, University of Edinburgh, 1987.
- [2] A.AVRON, R.HARPER, F.HONSELL, MASON, I., AND G.PLOTKIN. Workshop on General Logics. Tech. Rep. ECS-LFCS-88-52, Laboratory for Foundations of Computer Science, University of Edinburgh, 1988.
- [3] BRETT CARSON, AND IAN A. MASON, AND ROBERT MURISON. Estimating breeding values on a Beowulf cluster. Tech. Rep. 05-235, MSCS, University of New England, June 2005.
- [4] IAN A. MASON, AND DAVID PORTER, AND CAROLYN TALCOTT. The JLambda Language. Tech. Rep. 05-232, MSCS, University of New England, January 2005. Available at <http://mcs.une.edu.au/~iop/Data/Papers/>.
- [5] MASON, I. Hoare's Logic in the LF. Tech. Rep. ECS-LFCS-87-32, Laboratory for Foundations of Computer Science, University of Edinburgh, 1987. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/87hoare.ps>.
- [6] MASON, I. A., PEHOUSHEK, J., TALCOTT, C. L., AND J.WEENING. Programming in QLisp. Tech. Rep. STAN-CS-90-1340, Department of Computer Science, Stanford University, 1990. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/90mapfns.ps>.
- [7] MASON, I. A., AND TALCOTT, C. L. Memories of S-expressions: Proving Properties of Lisp-Like Programs that Destructively Alter Memory. Tech. Rep. STAN-CS-85-1057, Department of Computer Science, Stanford University, 1985.
- [8] MASON, I. A., AND TALCOTT, C. L. A Sound and Complete Axiomatization of Operational Equivalence Between Programs with Memory. Tech. Rep. STAN-CS-89-1250, Department of Computer Science, Stanford University, 1989. Available as postscript from <http://mcs.une.edu.au/~iam/Data/Papers/89cm-tr.ps>.

### Miscellaneous

- [1] FORD, J., MASON, I. A., AND SHANKAR, N. Lessons Learned from Formal Developments in PVS., 2002. presented at LICS'02 (within FLoC'02), Copenhagen.
- [2] MASON, I. A. The Undecidability of the Metatheories of Propositional Calculii. *Abstracts of the American Mathematical Society*. 5, 1 (1984), 130.

- [3] MASON, I. A. Memories of Lisp. *Journal of Symbolic Logic*. 51, 3 (September 1986). Abstract.
- [4] MASON, I. A. *The Semantics of Destructive Lisp*. PhD thesis, Stanford University, 1986. Also available as [2].
- [5] MASON, I. A., AND TALCOTT, C. L. The InterOperability Platform Manual IOP version 0.14, February 2005. Available at <http://mcs.une.edu.au/~iop/Data/Manual/>.