

James Noble

Curriculum Vitae

Full Name Robert James Noble.
Qualifications **B.Sc.(Hons) Ph.D. VUW**
Nationality New Zealand Citizen, British Citizen.
Date and place of birth 17 August 1967, London, England.

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Victoria University of Wellington,
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Present Position

I am currently engaged as Professor of Computer Science (Software Engineering) within the School of Engineering and Computer Science at Victoria University of Wellington, New Zealand.

Professional Memberships

Fellow, Information Technology Professionals, New Zealand
Fellow of the British Computer Society
Senior Member of the Association for Computing Machinery
Member of the Institute of Electrical and Electronics Engineers
Member of the Association Internationale pour les Technologies Objets
Certified Information Technology Professional, New Zealand

Research Areas

I conduct research in the following areas of Software Engineering and Computer Science:

Software Design especially Object-Oriented and Aspect-Oriented approaches to design.
Programming Languages especially Ownership Types and Pluggable Type systems.
Design Patterns including Small Memory Systems; User Interaction; Agile Development.
Human Computer Interaction including Interface Design, Interaction Design, Usability.
Software Visualisation and **Visual Languages** including language design and analysis .
Development Methodologies especially Agile approaches involving users and customers.
Philosophy of Computer Science and Software Engineering, in particular semiotics of computation and postmodern approaches to software design.

Teaching Experience

Since 2000 I have developed and taught courses from introductory computer science to specialized international tutorials.

Appointments Held

(Teaching appointments marked *)

Visiting Professor

Department of Computing, Kings College, London

June 2016 – July 2019

Visiting Professor

Department of Computing, Imperial College, London

October 2009 – September 2017

* Professor

Computer Science, Victoria University of Wellington

December 2003 — Present

* Associate Professor

Computer Science, Victoria University of Wellington

January 2003 — November 2003

* Senior Lecturer

Computer Science, Victoria University of Wellington

January 2002 — December 2002

* Lecturer

Computer Science, Victoria University of Wellington

October 1999 — December 2001

* Research Scientist

Microsoft Research Institute, Macquarie University,

July 1996 — October 1999.

* Postdoctoral Research Fellow

Center for Object Technology, Applications, and Research,

Department of Computing Sciences, University of Technology, Sydney,

May 1995 — June 1996.

* Lecturer

Department of Computing Sciences, University of Technology, Sydney,

August 1995 — November 1995.

* Assistant Lecturer

Victoria University of Wellington,

August 1992 — January 1993.

* Tutor, Victoria University of Wellington,

1993 — 1994.

* Teaching Assistant, Victoria University of Wellington,

February 1989 — July 1992.

* Programmer, Coopers & Lybrand, Wellington,

November 1986 - November 1988

Graduate Students

David Holmes, Principal Member of Technical Staff, Oracle Corporation. PhD 1999
Dave Clark, Professor, Computer Science, Uppsala University. PhD 2002
Michael Richmond, Principal Architect, NIO (San Jose). PhD 2002
Stuart Marshall, Senior Lecturer, Victoria University of Wellington. PhD 2006
Alex Potanin, Senior Lecturer, Victoria University of Wellington, PhD 2007
Rilla Khaled, Associate Professor, Concordia University. PhD 2008
Pippin Barr, Assistant Professor, Concordia University. PhD 2008.
Matthew Duignan, Product Manager, Microsoft Corporation. PhD 2008.
Angela Martin, Agile Team Facilitator, Xero. PhD 2009
Rashina Hoda, Senior Lecturer, The University of Auckland. PhD 2011
Stephen Nelson, IP Projects Lead, Katalyst Interactive (Adelaide), PhD 2012
Craig Anslow, Lecturer, Victoria University of Wellington, PhD 2013
Siva Kumar Dorairaj. Senior Consultant, Assurity. PhD 2013
Michael Homer, Lecturer Victoria University of Wellington, PhD 2014
Michael Waterman Solution Architect, GWRD. PhD 2014
Ahmed Khalifa. Developer. PhD 2014
Paley Li, Principal Member of the Technical Staff, Oracle Laboratories, PhD 2015
Tim Jones. Senior Software Engineer. Montoux. New York. PhD 2017
Mawarny Md Rejab Lectuer, Universiti Utara Malaysia. PhD 2017

Fiona Malikoff. Software Developer (Brisbane). MSc 1999
Rilla Khaled, Associate Professor, Concordia University. MSc 2002
Pippin Barr, Assistant Professor, Concordia University. MSc 2003
Michael McGavin, Solutions Developer, Kapish. MSc 2005
Darren Willis. Technical Lead Manager, Google (Tokyo). MSc 2006
Jennifer Ferreria, Lecturer, Victoria University of Wellington. MSc 2007
Craig Anslow, Lecturer, Victoria University of Wellington, MSc 2008
Donald Gordon. Ministry Intern. PCANZ. MSc 2008
Frank Schmager, Software Architect, Bandwith.com. MSc 2011
Radu Muschevici. Research Fellow, TU Darmstadt. MSc 2011
Jack Purvis. Software Developer, Optimal Workshop. MSc under examination 2019.

Haowei Ruan. Senior Solution Architect, Aon (Sydney). PGDipSci 2010

Currently supervising 3 PhD students.

Prizes and Awards

International Conference on Software Engineering “Distinguished Paper Award” – 2017, 2015.

Association Internationale pour les Technologies Objets (AITO) “Dahl-Nygaard Senior Career Award” 2016

Association for Computing Machinery Special Interest Group on Programming Languages (ACM SIGPLAN) “Most Notable Onward Paper in the last 10 years” Award 2012

VUW PGSA Award: Best Supervisor in the Faculty of Engineering 2010.

Asia-Pacific Software Engineering Conference “Best Paper Award” 2010.

Association for Computing Machinery Special Interest Group on Programming Languages (ACM SIGPLAN) “Most Influential OOPSLA Paper in the last 10 years” Award 2008

Australian Software Engineering Conference “Most Influential Paper in the last 10 years” Award 2008

VUW Research Excellence Award 2008

Neil B. Harrison Shepherding Award, Ninth European Conference on Pattern Languages of Program Design (EuroPLoP) 2004

Best Paper Award, Eighth European Conference on Pattern Languages of Program Design (EuroPLoP) 2003

External Research Support

Object Capabilities for Robust Applications in the Open World. James Noble, Sophia Drossopoulou. Royal Society of New Zealand: Marsden Fund. 18-VUW-026. ORCA: NZD 679,000. 2018 Round (2019-2021)

Object Ownership for Capabilities and Provenance. Alex Potanin, David J. Pearce, James Noble. Oracle Corporation (Australia). NZD 67,081. 2017.

Making Capability Policies Explicit. James Noble, Sophia Drossopoulou. Royal Society of New Zealand: Marsden Fund. 13-VUW-062. CAPE: NZD 521,739. 2013 Round (2014-2017)

Reliable Software via Patterns and Ownership James Noble. Royal Society of New Zealand: James Cook Fellowship. 13-VUW-001. NZD 220,000. 2013 Round (2014-2016).

Visualisation of Large Codebases. Craig Anslow, Stuart Marshall, James Noble. Oracle Corporation (Australia). NZD 58,519. 2014.

Ministry of Science and Industry . Tech Jumpstart. Craig Anslow, S. Marshall, James Noble. NZD 10,000. 2013

Software Visualisation for Large Code Bases. James Noble, Stuart Marshall. Oracle Corp., NZD61,940, 2013

Ministry of Science and Industry. New Economy Research Fund Contract Extension. NZD 78,518.72. Sept 2011 – Sept 2012.

Design patterns and ownership types for reusable program verification. James Noble, Sophia Drossopoulou. RSNZ Marsden Fund, 2011-2013. NZD 640,000

More Expressive Ownership Types. James Noble. Build IT Postdoctoral Fellowship. NZD 116,000, July 2008-2010

Scoped Memory Types for Safety Critical RTSJ. James Noble. IBM Real Time Innovation Award. USD 16,000. Dec 2007

Software Product and Process Improvement for New Zealand Industry. John Grundy (Science Leader). John Hosking, Emilla Mendes, Stephen MacDonell, James Noble (Key Researchers). FRST New Materials, Technologies and Services. October 2007—June 2011.

Practical Ownership Types for Object and Aspect Programs Sophia Drossopoulou, James Noble and Dave Clarke. EPSRC, GBP 52,000, 2006.

Integrated Ownership and Debugging in Eclipse. James Noble, Robert Biddle. IBM Eclipse Innovation Award. USD 15,000. 2005

Eclipse support for Ownership Types. James Noble, Robert Biddle. IBM Eclipse Innovation Award. USD 20,000. 2004

Learning the Aspects of Object-Oriented Programming. Robert Biddle, James Noble. IBM Eclipse Innovation Award. USD 20,000. 2004

Ownership types for Object- and Aspect-Oriented Programming. James Noble, David Clarke, Robert Biddle. Marsden Grant. NZD 327,678 2004-2006.

Domain Specific Software Tools. John Hosking, John Grundy, Ewan Tempero, Emilia Mendes, Anna Liu, James Noble, Mark Apperly, Robert Biddle, Robert Amor, Nianping Zhu. Public Good Science Fund. NZD 762,000. 2002-2005.

Aliasing and Ownership in Object-Oriented Systems. James Noble. Fast Start Marsden Grant NZD 100,000. 2002-2003.

Object-Oriented Frameworks. Robert Biddle, James Noble, and Information Power Ltd. Technology for Business Growth Grant NZD 50,000. 2002-2003.

Interactive Metrics Visualisation for User Interface Design. James Noble and Larry Constantine. ARC Small Grant, 1998. AUD 16 000.

Scholastic and University Record

Ph.D., Victoria University of Wellington, 1996.

J.L. Stewart Scholarship, 1989.

IBM Postgraduate Scholarship, 1989 — 1992.

UGC Postgraduate Scholarship, 1989 — 1992.

B.Sc.(Hons) 1st class, Victoria University of Wellington, 1988.

B.Sc., Victoria University of Wellington, 1985 — 1987.

External Service

Appointments

Panel member for Royal Society of New Zealand Marsden Fund Mathematical and Information Sciences (MIS) panel, 2006-2008, 2014.

Foundation Editor-In-Chief, Springer-Verlag Transactions on Pattern Languages of Programming, 2007-2019

Editorial Board member of journals: IET Software, Systems Signs and Actions; Intl. Journal Agile and Extreme Software Development, Journal of Object Technology.

Director of the Hillside Group, a US-based non-profit organization that promotes the study of design patterns worldwide, 2001-2008.

External Examiner for Masters & Doctoral Theses

The University of Melbourne, 2019

Università della Svizzera Italiana Lugano University, 2013

Monash University, 2005, 2012

Australian National University 2012

Queensland University of Technology, 2010

Massey University 2009, 2010

The University of Auckland, 2008, 2009

The University of New South Wales, 2007

The University of Madeira, Portugal, 2006

The University of Sheffield, 2005

Flinders University of South Australia, 2005

The University of Auckland 2004, 2003

Dublin City University, 2004

The Royal Melbourne Institute of Technology, 2002

Research Assessments

Member of the College of Assessors, Ministry of Business, Innovation & Enterprise, NZ. 2016-present

Reviewer Flemish Research Organisation (FWO) 2018

Reviewer for Canadian Natural Sciences and Engineering Research Council (NSERC) 2011, 2013, 2018.

Reviewer for Norwegian Centres of Research Excellence, 2017

Reviewer for British Computer Society Lovelace Medal, 2014.

Reviewer for Deutsche Forschungsgemeinschaft Gottfried Wilhelm Leibniz Prize, 2014

Reviewer for European Research Council, 2014.

Reviewer for Israel Science Foundation 2013

Reviewer for KU Leuven Research Council, 2012.

External Research Quality Evaluator, The Australian National University, 2012.

External Research Assessor, Excellence in Research Australia, 2012.

Reviewer for Canadian MITACS grant body, 2010.

Reviewer for ETH Zurich Research Commission, 2010

Reviewer for Hasler Stiftung, 2010

Reviewer for Hong Kong Research Grants Committee, 2009, 2012, 2017

Conference Committees

Object-Oriented Programming Systems, Languages, and Application (OOPSLA)

- Programme Committee OOPSLA 2001, 2002, 2005, 2006,2009,2012, 2015,
- External Review Committee 2017
- Organising Committee OOPSLA 2002, 2005.
Co-Chair, OOPSLA 2005 Onward! Stream
Reviewer 2017
- Chair, OOPSLA 2002 Doctoral Symposium
- Doctoral Symposium Faculty Member 2001,2003,2006,2007
- Onward! Essays Programme Committee, 2019

European Conference on Object-Oriented Programming (ECOOP)

- 2001, 2005, 2007, 2008, 2009. 2010, 2011
- Program Chair 2012
- Inaugural Summer School Chair 2008-2014, 2019
- Doctoral Symposium Academic Panel Member 2008.

Dynamic Language Symposium (DLS) 2009, 2013-2015, 2019

- Programme Chair, 2009.

Software Language Engineering (SLE) 2018

Foundations of Software Engineering / European Software Engineering Conference (FSE/ESEC) 2017

International Conference on Software Engineering (ICSE)

- New Ideas and Emerging Results (NIER) 2015
- Student Research Competition (SRC) 2012

International Conference on Live Coding (ICLC) 2015-2019

IEEE Working Conference on Software Visualization (VISSOFT) 2015

Agile Processes in Software Engineering and Extreme Programming (XP) 2015

ACM Modularity

- Visions track 2015

Australian Software Engineering Conference (ASWEC)

- Programme co-Chair 2010, 2013

ACM Programming Languages Design and Implementation (PLDI).

- External Review Committee 2012, 2015

Aspect Oriented Software Development (AOSD) 2008, 2012

International Symposium On Wikis (WikiSym)

- Steering Committee 2005-2010
- Programme Chair WikiSym 2006
- Programme Committee WikiSym 2005-2008,2010.

ACM Hypertext 2007

Programme Chair for forUSE 2002.

Technology of Object-Oriented Languages and Systems (TOOLS Europe), 2010, 2011.

Technology of Object-Oriented Languages and Systems (TOOLS Pacific), 1997-2002, 2019.

- Program chair for TOOLS Pacific 2002.

Asia-Pacific Conference on Conceptual Modelling (ACCPM) 2009

Australian User Interface Conference 2000, 2002, 2004, 2005

Australian Computer Science Conference 2002, 2003. 2004.

Computing: Australian Theory Symposium (CATS) 2009.

European Conference on Pattern Languages of Programming (EuroPLOP) from 1998 to 2001.

- Focus Group Chair for EuroPLOP 2000.

European Symposium on Programming (ESOP) 2009, external reviewer 2012

Asian-Pacific Pattern Languages of Programming Conference (KoalaPLoP) 2000-2002.

- Conference Chair 2001
- Program Chair 2002.

Visual Languages/Human Centric Communication (VL/HCC) 2006, 2007, 2008

Diagrams 2008

Software Engineering - SIENZ 2007 Research Stream Programme Panel

INTERACT'99, 2001.

International Conference on Software Engineering (ICSE)^[SEP] New Ideas and Emerging Results (NIER) 2013, 2015^[SEP] Student Research Competition (SRC) 2012

Workshop Committees

International Workshop on Live Programming (LIVE) Steering Committee 2019-2021,
Reviewer 2018-2019

Workshop on Cooperative and Human Aspects of Software Engineering (CHASE) at the International Conference on Software Engineering (ICSE) 2012, 2014, 2015, 2016, 2019

Workshop on New Object-Oriented Languages (NOOL) at SPLASH. 2015-2018

ECOOP Workshop: Formal Techniques for Java-like Programs (FTfJP) 2003, 2004, 2009, 2017

ECOOP Workshop from Scripts to Programs (STOP) 2015

Future Programming Workshop at Strangeloop and PLOP: 2014

ECOOP Workshop on Dynamic Languages (DYLA) 2011

Workshop on Evaluation and Usability of Programming Languages and Tools (PLATEAU) at the ACM Conference on Systems, Programming, Languages, Applications, for Humanity (SPLASH) 2010, 2014, 2015

ECOOP 2011 Intercontinental Workshop on Aliasing, Confinement, and Ownership in Object-Oriented Systems (IWACO): Twenty Years of Aliasing in Object-Oriented Languages. Nick Cameron, Dave Clarke, James Noble, Matthew Parkinson.

Dagstuhl 2010 Workshop on Relationships, Objects, Roles, and Queries in Modern Programming Languages, Stephanie Balzer, Gavin Bierman, Stephan Hermann, Stephen Nelson, Erik Meijer, James Noble, David Pearce, Friedrich Steimann, Frank Tip.

OOPSLA 2008 Relationships and Associations in Object-Oriented Languages. Stephen Nelson, Stephanie Balzer, Gavin Bierman, Erik Meijer, James Noble, David Pearce, Jiri Soukup, Frank Tip.

International Workshop on Aliasing, Confinement, and Ownership in Object-Oriented Systems (IWACO), at ECOOP. 1999, 2003, 2007, 2011, 2017.

FOOL/WOOD Foundations of Object-Oriented Languages workshop and the Workshop on Object-Oriented Developments 2006

OOPSLA 2002 Workshop on Refactoring Design Patterns. Brian Foote, James Noble, Charles Weir.

OOPSLA'98 Workshop on Prototype-Based Object-Oriented Programming. Antero Taivalsaari and James Noble.

ECOOP'97 Workshop on Prototype-Based Object-Oriented Programming. James Noble and Ivan Moore.

ECOOP'96 Workshop on Prototype-Based Object-Oriented Programming. Antero Taivalsaari and James Noble.

Journal Reviewing

ACM Transactions on Software Engineering and Methodology (TOSEM) 2017

ACM Transactions on Programming Languages and System (TOPLAS) 2011, 2014

Communications of the ACM (CACM) 2015

Information and Software Technology (IST) 2015

IEEE Transactions on Software Engineering. (TSE) 2007, 2008, 2011, 2012

IEEE Software 2008

Software—Practice & Experience 2008, 2011, 2012, Distinguished Reviewer 2018.

Empirical Software Engineering (ESE) 2018

Journals of System and Software (JSS), 2015, 2018

Automated Software Engineering (ASE) 2018

Science of Computer Programming (SCP) 2011 2017

ACM Inroads 2017

Journal of Visual Languages and Computation 2008

Invited Presentations / Keynotes

Twenty Years of Ownership Types. James Noble. Invited presentation to SPLASH-I at OOPSLA 2018.

Through a glass,^[1]_[SEP]darkly. James Noble. Invited Keynote presentation to Workshop on Meta-Programming Techniques and Reflection (META) at OOPSLA 2018.

Half a Life in Software. James Noble. Keynote presentation to the European Conference on Object-Oriented Programming (ECOOP), 2016.

We Demand Rigidly Defined Areas of Doubt and Uncertainty. James Noble. Keynote presentation to the Workshop on Aspect-Oriented Software Development (AOSD 2016), at ECOOP 2016.

Agile Research into Agile Development. James Noble. Invited Keynote presentation to the 6th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE 2013) at ICSE 2013. May 2013.

Twenty Years of Aliasing in Object-Oriented Languages (a personal view). James Noble. Keynote presentation to the International Workshop on Aliasing, Confinement, and Ownership in Object-Oriented Systems at ECOOP 2011. July 2011.

We Demand Rigidly Defined Areas of Doubt and Uncertainty. James Noble. Keynote presentation to the 5th Asian Workshop on Aspect-Oriented and Modular Software Development (AOAsia 2009), at ASE 2009, November 2009

The Myths of Object-Orientation. James Noble. Invited presentation, ECOOP, Paphos. 2008.

We Demand Rigidly Defined Areas of Doubt and Uncertainty. James Noble. Keynote presentation to the ECOOP 2008 Workshop on Aspect Dependencies and Interactions,^[1]_[SEP]July 2008

The Lego Hypothesis. James Noble. Keynote presentation to QCon San Francisco, Nov 2007.

Roles and Relationships James Noble. Keynote presentation to ECOOP Workshop on Roles and Relationships, Berlin, July 2007.

The Lego Hypothesis. James Noble. Keynote presentation to OOP, Munich, Jan 2007.

Love in the Age of Software. James Noble and Robert Biddle. Keynote Presentation to XPDay, London, Nov 2006.

Postmodern Prospects for Conceptual Modelling. James Noble, Robert Biddle. Invited Presentation to Asian-Pacific Conference on Conceptual Modelling (APCCM), Hobart, Jan 2006.

The Lego Hypothesis. James Noble. Keynote presentation to JAOO 2004, Aarhus, Denmark, Sept 2004.

Conference Tutorials

Notes on Postmodern Programming. James Noble. Curry On 2016.

Grace: an educational, object-oriented, open-source, portable, programming language. James Noble, Andrew Black, Kim Bruce. PLDI2012

Customers are from Venus, Programmers are from Mars. Angela Martin, Robert Biddle, James Noble. XP 2006, Agile 2006, OOPSLA 2006, XP 2006, XPDay 2006. Agile 2007.

The Six Million Dollar Customer. Angela Martin, Robert Biddle, James Noble. OOPSLA 2005.

Semiotics of Visual Languages. James Noble, Robert Biddle. VL/HCC2004.

Object-Oriented Techniques That Really Work. Robert Biddle, James Noble, Ewan Tempero. forUSE2002.

Patterns for Small Machines. Charles Weir and James Noble. OOPSLA 2000-2002, TOOLS Europe 2000, JAOO 2004

Playing with Patterns. Charles Weir and James Noble. OOPSLA'98, 99, 2000. TOOLS Europe 2000

Usage-Centered Design. Larry Constantine, Lucy Lockwood, and James Noble. OzCHI'98, OOPSLA'99, 2000. 2001. 2002, forUSE 2002.

Applying Design Patterns, John Potter and James Noble. TOOLS Pacific, Melbourne, 1997, ASWEC, Adelaide, 1998.

Industrial Courses

Object-Oriented Techniques That Really Work. Robert Biddle, James Noble, Ewan Tempero. Presented to various New Zealand companies, 2000-2002.

James Noble

Research and Publications

Book

1. *Small Memory Software: Patterns for Systems with Limited Memory*. James Noble and Charles Weir. Addison-Wesley, London. October 2000.

Edited Books

2. *Aliasing in Object-Oriented Systems — Types, Analysis, Verification*. Dave Clarke, Tobias Wrigstad, James Noble, editors. Springer Verlag LNCS 7850. 2013.
3. *Pattern Languages of Program Design 5*. Dragos Manolescu, Marcus Volter, and James Noble, editors. Addison-Wesley, 2006.
4. *Prototype-Based Programming: Concepts, Languages, Applications*. James Noble, Antero Taivalsaari, Ivan Moore, editors. Springer-Verlag, 1999.

Edited Journal Issue

5. Transactions on Pattern Languages of Programming IV — James Noble, Ralph Johnson, Uwe Zdun, Eugene Wallingford, editors. Springer-Verlag Lecture Notes in Computer Science (LNCS 10600) 2019.
6. Transactions on Pattern Languages of Programming III — James Noble, Ralph Johnson, Uwe Zdun, Eugene Wallingford, editors. Springer-Verlag Lecture Notes in Computer Science (LNCS 7840) 2013.
7. Transactions on Pattern Languages of Programming II — Special Issue on Applying Patterns. James Noble, Ralph Johnson, Paris Avgeriou, Neil B. Harrison, Uwe Zdun, editors. Springer-Verlag Lecture Notes in Computer Science (LNCS 6510) 2011.
8. Transactions on Pattern Languages of Programming I. James Noble, Ralph Johnson, editors. Springer-Verlag Lecture Notes in Computer Science (LNCS 5770) 2010.
9. Special issue of SoftwarePractice and Experience on Aliasing in Object-Oriented Systems. James Noble and Doug Lea, editors. 31:1, 2001.

Edited Conference Proceedings

10. Collaboration and learning through live coding (Dagstuhl Seminar 13382). Alan Blackwell, Alex McLean, James Noble, Julian Rohrerhuber. Dagstuhl Reports 3(9): 130-168 (2013)
11. Proceedings of the 26th European Conference on Object-Oriented Programming (ECOOP 2012), Beijing, China, June 11-16, 2012. James Noble, Editor. Springer 2012
12. Proceedings of the 21st Australian Software Engineering Conference (ASWEC 2010). James Noble and Colin Fidge, Editors. IEEE Press, 2010.
13. Proceedings of the 5th Symposium on Dynamic languages (DLS 2009). James Noble, Editor. ACM Press, 2009
14. Proceedings of the 2006 International Symposium on Wikis (WikiSym 2006). Dirk Riehle, James Noble, Editors. ACM Press, 2006.
15. Proceedings of the Third Asian-Pacific Conference on Pattern Languages of Programs KoalaPLoP 2002. James Noble and Paul Taylor, Editors. Volume 16 of *Conferences on*

Research and Practice in Information Technology, Australian Computer Society, 2002.

16. Objects for Mobile, Web, and Internet Computation: Proceedings of the Fortieth International Conference on Technology of Object-Oriented Languages and Systems - TOOLS Pacific 2002, Sydney, Australia, 2002. James Noble and John Potter. Editors. Volume 10 of *Conferences in Research and Practice in Information Technology*.
17. Proceedings of the Second Asian-Pacific Conference on Pattern Languages of Programs KoalaPLOP 2001. James Noble and Brian Wallis, Editors. Technical Report CS-TR-01-8, Computer Science, Victoria University of Wellington, New Zealand.

Refereed Book Chapters

18. Abstract and Concrete Data Types vs Object Capabilities. James Noble, Alex Potanin, Toby C. Murray, Mark S. Miller. In *Principled Software Development: Essays Dedicated to Arnd Poetzsch-Heffter on the Occasion of his 60th Birthday*. Springer-Verlag 2018: 221-240
19. The Essence of Inheritance. Andrew Black, Kim Bruce and James Noble. In *A List of Successes that can Change the World*. Sam Lindley, Conor McBride, Phil Trinder, Don Sannella, editors. Springer Verlag LNCS 2016.
20. Understanding Ownership Types with Dependent Types. Nicholas Cameron, Sophia Drossopoulou, James Noble. In *Aliasing in Object-Oriented Systems — Types, Analysis, Verification*. Dave Clarke, Tobias Wrigstad, James Noble, editors. Springer Verlag LNCS 7850. 2013.
21. Beyond the Geneva Convention on the Treatment of Object Aliasing. Dave Clarke, James Noble, Tobias Wrigstad. In *Aliasing in Object-Oriented Systems — Types, Analysis, Verification*. Dave Clarke, Tobias Wrigstad, James Noble, editors. Springer Verlag LNCS 7850. 2013.
22. How, Then, Should We Program? James Noble. In *Aliasing in Object-Oriented Systems — Types, Analysis, Verification*. Dave Clarke, Tobias Wrigstad, James Noble, editors. Springer Verlag LNCS 7850. 2013.
23. An Ideal Customer: A Grounded Theory of Requirements Elicitation, Communication and Acceptance on Agile Projects. Angela Martin, Robert Biddle, James Noble. In *Agile Software Development: Current Research and Future Directions*. Nils Brede Moe, Tore Dybå, Torgeir Dingsøy, Editors. Springer Verlag. 2010.
24. A Semiotic Model of User-Interface Metaphor. Pippin Barr, Robert Biddle, James Noble. In *Virtual, Distributed and Flexible Organisations*, Kluwer Academic Publishers, 2004.
25. Visual Program Visualisation. James Noble and Robert Biddle. Chapter 12, pages 359-388 in *Software Visualisation: From Theory to Practice*. Kang Zhang, editor. Kluwer. 2003
26. Visualising Objects: Abstraction, Encapsulation, Aliasing and Ownership. James Noble. In Chapter 1, pages 58-72 of *Software Visualisation, State of the Art Survey*. Springer-Verlag Lecture Notes in Computer Science (LNCS 2269). 2002.
27. The Object System Pattern. James Noble. Chapter 5, pages 53-72 in *Pattern Languages of Program Design 4*. Neil Harrison, Brian Foote and Hans Rohnert, editors. Addison-Wesley, 2000.
28. Basic Relationship Patterns. James Noble. Chapter 6, pages 73-89 in *Pattern Languages of Program Design 4*. Neil Harrison, Brian Foote and Hans Rohnert, editors. Addison-Wesley, 2000.
29. High-level and Process Patterns from the Memory Protection Society. James Noble and Charles Weir. Chapter 12, pages 221-238 in *Pattern Languages of Program Design 4*. Neil Harrison, Brian Foote and Hans Rohnert, editors. Addison-Wesley, 2000.
30. Prototype-Based Programming for Abstract Program Visualisation. James Noble. In *Prototype-Based Programming: Concepts, Languages, Applications*. James Noble, Antero Taivalsaari, Ivan Moore, editors. Springer-Verlag, 1999.

Refereed Journal Articles

31. Lessons in Combining Block-Based and Textual Programming. Michael Homer, James Noble. *Journal of Visual Languages and Sentient Systems*. 3:22-39 01 Jul 2017
32. Grace's Inheritance. James Noble, Andrew Black, Kim Bruce, Michael Homer, Tim Jones. *Journal of Object Technology (JOT)*16(2) 2:1-35 2017.
33. Self-Organizing Roles on Agile Software Development Teams, Rashina Hoda, James Noble, Stuart Marshall. *IEEE Transactions on Software Engineering (TSE)*, 39(3): 442-444. 2013.
34. Developing a Grounded Theory to Explain the Practices of Self-Organizing Agile Teams. Rashina Hoda, James Noble, Stuart Marshall. *Empirical Software Engineering*. 17(6), 609-639 2012.
35. Implementing a language with Flow-Sensitive and Structural Typing on the JVM. David J. Pearce, James Noble. *Electronic Notes on Theoretical Computer Science*. 279(1), 47-59. 2011.
36. The Impact of Inadequate Customer Involvement on Self-Organizing Agile Teams. Rashina Hoda, James Noble, Stuart Marshall. *Information Software and Technology*. Vol 53 Issue 5 pp.521-534. 2011.
37. Abstraction and Activity in Computer Mediated Music Production. Matthew Duignan, James Noble, Robert Biddle. *Computer Music Journal*, 34:4, Winter 2010.
38. JavaCOP: Declarative Pluggable Types for Java. Shane Markstrum, Daniel Marino, Matthew Esquivel, Todd Millstein, Chris Andreae, James Noble. *ACM Transactions on Programming Languages and Systems (TOPLAS)* 23:2, Article 4, 2010.
39. Implicit ownership types for memory management. Tian Zhao, Jason Baker, James Hunt, James Noble, Jan Vitek. *Science of Computer Programming*. 71(3): pp213-241. 2008
40. Point/Counterpoint (Every Good Designer Uses Patterns). Peter Sommerlad, James Noble. *IEEE Software* 24(4) 2008. pp68-71.
41. Scoped types and aspects for real-time Java memory management. Chris Andreae, Yvonne Coady, Celina Gibbs, James Noble, Jan Vitek, Tian Zhao. *Real-Time Systems*. Vol 37 No 1, pp 1-44. Oct 2007.
42. Videogame Values: Human-Computer Interaction and Games. Barr, P., Biddle, R., and Noble, J. *Interacting with Computers: HCI Issues in Computer Games*, 19(2): pp180-195, 2007.
43. Featherweight Generic Confinement. Alex Potanin, James Noble, Dave Clarke, and Robert Biddle. *Journal of Functional Programming*. Vol 16 Issue 6, pp 793-811. Sep 2006.
44. Patterns as Signs: A Semiotics of Object-Oriented Design Patterns. James Noble, Robert Biddle, Ewan Tempero. *Systems, Signs, and Actions*. 2:1, pp3-40, 2006.
45. Exclusion and Potential Concurrency for Composite Objects. Abdelsalam Shanneb, John Potter and James Noble. *Science of Computer Programming*. 38:3, 344-365, Dec 2005
46. Scale-Free Geometry of Object-Oriented Programs. Alex Potanin, James Noble, Marcus Freen, Robert Biddle. *Communications of the ACM*. 48:5, 99-103, May 2005
47. Checking Ownership and Confinement. Alex Potanin and James Noble. *Concurrency and Computation, Practice and Experience* Volume 16, Issue 7, pp671 - 687, 2004.
48. Scalable Visualisations of Object-Oriented Systems using Ownership Trees. Trent Hill, James Noble, and John Potter. In the *Journal of Visual Languages and Computation*, vol 13 no 3 June 2002.
49. Aliasing in Object-Oriented Systems: Introduction to the Special Issue. James Noble and Doug Lea. *Software Practice and Experience*. 31:1, p.1565, 2001. Reprinted in *Software Focus*. Wiley. Jan 2001.
50. Arguments and Results. James Noble. *The Computer Journal*. vol 46 no 6. pp.439-450. 2001.

51. Object Oriented Program Visualisation in Tarraingim. James Noble, Lindsay Groves, and Robert Biddle. *Australian Computer Journal*, Special Issue on Software Visualisation. 27(4), November 1995.
52. Tarraingim— A Program Animation Environment. R. J. Noble and L. J. Groves. *New Zealand Journal of Computing*, 4(1), December 1992.

Refereed Conference Papers

Conferences marked ** are highly prestigious: e.g. accepting less than 1/5 of submitted papers (32 papers)

Papers marked # won best paper or best presentation awards. (7 papers)

53. Promoting Developer Security: Creating a Lightweight Program of Assurance Techniques. Charles Weir, Lynne Blair, Ingolf Becker, M. Angela Sasse, James Noble, Awais Rashid IEEE International Conference on Software Engineering Software Engineering in Practice (SEIP) 2019.
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