

Mark Priestley

Curriculum Vitae

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from 2010 Freelance writer and historian of computing

Education

- 1999–2008 **PhD**, *University College London*, (part-time).
Thesis title: *Logic and the development of programming languages, 1930–1975*.
- 1986–1988 **MSc**, *Birkbeck College*, London, (part-time).
Database and Information Systems (with distinction).
- 1980–1981 **PGCE**, *Institute of Education*, London.
Teaching qualification in mathematics at secondary school level.
- 1976–1979 **BA**, *Oxford University*.
Mathematics and Philosophy (class II).

Past Employment

- 9/1987–7/2010 **Lecturer**, *University of Westminster*, London.
Principal Lecturer from 1/1992.
Taught a range of subjects, particularly programming and program design.
Carried out research into the history and philosophy of programming.
Various administrative responsibilities; Head of Department of Software Engineering from 1997 to 2004.
- 3/1987–8/1987 **Programmer/Analyst**, *Fraser Williams Ltd*, London.
Software development and support.
- 8/1984–2/1987 **Programmer/Analyst**, *TRIAD Computer Systems*, London.
Software development and support.
- 9/1981–8/1984 **Teacher**, *ILEA*, London.
Secondary school teacher of maths and computer studies.

Publications

Books

- 2014 *ENIAC in Action: Making and Remaking the Modern Computer* (with T. Haigh and C. Rope), MIT Press.
- 2011 *A Science of Operations: Machines, Logic and the Invention of Programming*, Springer.
- 2003 *Practical Object-Oriented Design with UML (Second edition)*. McGraw-Hill.
- 2000 *Practical Object-Oriented Design with UML*. McGraw-Hill.
- 1997 *Practical Object-Oriented Design*. McGraw-Hill.

Chapters in Books

- 1995 "Discipline or punish: the cruelty of not teaching software engineering". In *Professional Awareness in Software Engineering*, ed. C. Myers. McGraw Hill.

Journal Articles

- 2017 "AI and the Origins of the Functional Programming Language Style", *Minds and Machines*, doi:10.1007/s11023-017-9432-7.
- 2016 "Where Code Comes From: Architectures of Computing from Babbage to Algol" (with T. Haigh), *Communications of the ACM*, 59(1), 39–44.
- 2015 "Innovators Assemble: Ada Lovelace, Walter Isaacson, and the Superheroines of Computing" (with T. Haigh), *Communications of the ACM*, 58(9), 20–27.
- 2014 "Los Alamos bets on ENIAC: Nuclear Monte Carlo Simulations, 1947-1948" (with T. Haigh and C. Rope). *IEEE Annals of the History of Computing*, Vol. 36, No. 3, July-September 2014, (42—1763).
"Engineering 'The Miracle of the ENIAC': Implementing the Modern Code Paradigm" (with T. Haigh and C. Rope). *IEEE Annals of the History of Computing*, Vol. 36, No. 2, April-June 2014, (41—59).
"Reconsidering the Stored-Program Concept" (with T. Haigh and C. Rope). *IEEE Annals of the History of Computing*, Vol. 36, No. 1, January-March 2014, (4—17).
"When technology became language: the origins of the linguistic conception of computer programming, 1950–1960" (with D. Nofre and G. Alberts). *Technology and Culture*, Vol. 55, No. 1, January 2014, (40—75).
- 1997 "A formal framework for hypertext systems" (with M. d'Inverno and M. Luck). *IEE Proceedings in Software Engineering*, Vol. 144, No. 3, June 1997, (175—184).
- 1993 "Implementing structured algebraic specifications in Ada". *Ada User*, Volume 14, Number 3, September 1993.

Conference Papers

- 2013 “Computers and obedience: defining machine autonomy in the 1940s”. *HaPoC 2013: 2nd International Conference on the History and Philosophy of Computing*, Paris, 28-31 October 2013.
- “From computing plan to computer program: Monte Carlo and the miracle of the ENIAC”. *iCHSTM 2013 symposium “Mathematics and Machines”*, Manchester, 22-28 July 2013.
- 2011 “When technology became language: New perspectives on the emergence of programming languages, 1950-1960” (with D. Nofre and G. Alberts). *SHOT 2011*, Cleveland, 3-6 November 2011.
- 2005 “The logic of correctness in software engineering”. *1st Workshop on Philosophical Foundations of Information Systems Engineering (PHISE’05)*, Porto, Portugal, 13 June 2005.
- 1995 “Structuring specifications in Z to build a unifying framework for hypertext systems” (with Mark d’Inverno). In J.P.Bowen and M.G.Hinchey, editors, *ZUM ’95: 9th International Conference of Z Users (Limerick, 1995)*, Springer-Verlag (Lecture Notes in Computer Science 967), 1995.
- 1992 “Towards an annotation language for Modula-2”. *2nd European Modula-2 Conference*, Leicester Polytechnic, September 1992.
- 1989 “Structured specification with annotated packages”. *8th Ada UK Conference*, York, September 1989. Proceedings published in *Ada User*, Volume 10 Supplement, 1989.
- “Implementing structured algebraic specifications in Ada”. *Software Quality Workshop*, Napier College, Edinburgh, June 1989.

Invited Talks

- 2017 “A History of ENIAC in Three Programs”. *Computer Conservation Society, North West*, Manchester, 21 March, 2017.
- 2016 “New Problems, New Paradigms”. *Codemesh*, London, 3 November, 2016.
- “A History of ENIAC in Three Programs”. *Computer Conservation Society*, London, 11 May, 2016.
- “The Early Development of Two Programming Styles”. *Jornadas sobre Inteligencia Artificial y sociedad contemporánea: El cometido de la información*, University of A Coruña, Ferrol, 11 March, 2016.
- “A History of ENIAC in Three Programs”. *University of Pennsylvania*, Philadelphia, 15 February, 2016.
- 2015 “Visualizing Computation”. *Interactions entre Informatique, Logique et Langage: Histoire et Philosophie*, Université de Lille 3, 17 June, 2015.
- “Making a Place for Programmers”. *Seminar on History and Philosophy of Computing*, Paris, 12 February, 2015.
- 2014 “Making a Place for Programmers”. *Second Symposium on the History and Philosophy of Programming*, AISB50, Goldsmiths, 4 April, 2014.
- 2012 “Why the ACE had no order code”. *CiE 2012*, Cambridge, 18–23 June, 2012.

- 2010 “The Algol Research Programme”. *History of Software, European Styles*, Leiden, Netherlands, 13–17 September, 2010.
- 2009 “Logic and the invention of the computer”. *British Logic Colloquium 2009*, Swansea, 3–5 September, 2009.

Prizes and Awards

- 2015 The paper “When technology became language: the origins of the linguistic conception of computer programming, 1950–1960” (written with D. Nofre and G. Alberts) was awarded the inaugural SIGCIS Mahoney Prize for an outstanding article in the history of computing and information technology.
- 2013 The book *A Science of Operations* was given a special commendation in the 2013 Fernando Gil International Prize in Philosophy of Science.