



Greg Paperin • Curriculum Vitae

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General & contact information:

Name: Gregory Paperin
Contact and further info: <http://www.paperin.org>

Education:

May 2006 – Ongoing: PhD degree at Monash University, Melbourne, Australia

- Research interests: artificial life, complex systems, software systems engineering.
- Several publications in international journals and conferences.
- Receiving 2 highly competitive university scholarships.

Sep 2000 – Jun 2004: MSci Computer Science Degree at University College London (UCL), UK

- 1st Class Honours Master's Degree.
- Prize for outstanding student performance.
- Dissertation topic: "Schema-Valid Insertion of XPath-Specified Node Sets into DOM Trees".

Aug 1995 – Jun 1999: Abitur at Gymnasium Tonndorf, Hamburg, Germany

- Average mark 1.2 (approx. corresponds to AAAAB in English A-Levels). Best of class.

Sep 1986 – Jun 1995: Various other schools

Publications:

(📖 - book chapter; 📄 - full conference paper; 📄 - conference poster)

- 📄 G. Paperin, S. Sadedin, D. Green, A. Dorin (2008): "Holey Fitness Landscapes and the Maintenance of Evolutionary Diversity". In "Proceedings of the 11th International Conference on Artificial Life (ALife XI)", MIT Press, Cambridge, MA.
- 📄 G. Paperin (2008): "Using Holey Fitness Landscapes to Counteract Premature Convergence in Evolutionary Algorithms". In "Proceedings of the Graduate Student Workshop at the Genetic and Evolutionary Computation Conference 2008 (GECCO'08)". ACM Publishing.
- 📄 G. Paperin (2008): "Evolving sequence patterns for prediction of sub-cellular locations of eukaryotic proteins". In "Proceedings of the Genetic and Evolutionary Computation Conference 2008 (GECCO'08)". ACM Publishing.
- 📄 G. Paperin, D. G. Green, A. Dorin (2007): "Fitness Landscapes in Individual-Based Simulation Models of Adaptive Radiation". In: "Proceedings of 2007 International Symposium on Computational Models for Life Sciences (CMLS'07)", AIP Conf. Proc., Vol. 952, pp. 268-278.
- 📄 T. G. Leishman, D. G. Green, G. Paperin (2007): "Dual Phase Evolution – a mechanism for self-organisation and optimisation". In: "Asia-Pacific Symposium on Intelligent and Evolutionary Systems 2007 (APSIES'07)".

Publications (continued):

(📖 - book chapter; 📄 - full conference paper; 📄 - conference poster)

- 📄 G. Paperin, D. G. Green, S. Sadedin, T. Leishman (2007): "A Dual Phase Evolution model of adaptive radiation in landscapes". In: "Proceedings of the 3rd Australian Conference on Artificial Life (ACAL'07)", Springer LNCS, Vol. 4828/2007, pp. 131-143.
- 📄 G. Paperin, D. G. Green, S. Sadedin, T. G. Leishman (2007): "Complexity in Speciation: Effects of disasters on adaptive radiation in a Dual Phase Evolution model". In: "Proceedings of the 8th Asia-Pacific Complex Systems Conference (Complex'07)".
- 📄 G. Briscoe, S. Sadedin, G. Paperin (2006): "Biology of Applied Digital Ecosystems". In: "IEEE Proceedings of Inaugural IEEE International Conference on Digital Ecosystems and Technologies 2007 (DEST'07)", pp. 458-463.
- 📖 G. Paperin (2006): "Security of Communication and Quantum Technology". In: M. Quigley (ed.), "Encyclopaedia of Information Ethics and Security". Idea Group Publishing, 2007. ISBN 159140987X.

Teaching:

Aug 2006 – Jun 2007: Problem class & lab supervisor / tutor, Monash University, Melbourne, Australia

- Supervision of tutorials and lab classes, assignments and exam marking, lecturing.
- Subjects: Java programming, C++ programming, software engineering.

Oct 2004 – Dec 2004: Assistant lecturer, University College London, UK

- I taught weekly problem classes for 1st year students, covering programming theory, Java & Prolog.
- My classes included supplemental material not covered by the main lecturer.

Previous research work:

Sep 2004 – Nov 2004: Research fellow, University College London, UK

- I have worked on the EGSO-project (European Grid of Solar Observations) as a software engineer.
- EGSO addresses the problem of combining heterogeneous data from scattered archives of observations into a single virtual dataset. It also provides catalogues of solar features and observation data including search and visualisation tools for data browsing.

Oct 2003 – Jun 2004: Research fellow, SystemWire Ltd., UK

- The company is a spin-off from the Computer Science Department of UCL, commercialising technologies researched by the Software Systems Engineering Group.
- I worked for the company within the scope of my MSci dissertation project at the university.
- My role was to research, design and implement new algorithms used for Schema-valid processing of XML-formatted data.

Jun 2002 – Aug 2002: Research assistant, University College London, UK

- In the summer after the 2nd year of my undergraduate degree I worked as a research assistant at one of the world leading universities.
- I was involved in research on memory allocation techniques for mobile devices. My responsibilities included implementing new algorithms and analysing their performance.

Other professional experience:

Feb 2006 – Ongoing: Freelance IT consultant & developer

- Since early 2006 I have shifted my professional concentration from the IT business to academic research, however I continue looking after a number of my previous company's clients (see below).
- I also continue working on new projects where I provide consulting and software design services as well as programming services on contract or part-time basis.
- My areas of expertise include: business process analysis, software design, UML, J2EE, JSP, other Java technologies, C++, web-based enterprise systems, web marketing, SEO, web design, PHP, XHTML, XML, CSS, MySQL, Apache, and various others.

Mar 2005 – Feb 2006: Managing director/Owner, Sol-C Technology Ltd. (2 employees)

- My company advised small and middle size businesses on integration of IT systems into their business processes. We also advised on internet marketing strategies.
- My company provided realisation support for clients' IT projects throughout the entire lifecycle from requirement capturing and profitability analysis through to implementation and maintenance.
- Our largest clients include Optimax UK Ltd. (UK largest eye surgery provider), Foxray AG (a leading German document input and management solutions provider) and many others.

Dec 2005 – Mar 2006: Web project manager, Kiwi Repro 68 Interaktive Medien GmbH, Hamburg, Germany

- In addition to working for my own company I have worked as a technical project manager and software developer for this large multimedia company on a contract basis.
- My responsibilities included strategic management of the companies' technical infrastructure, and participation in a number of client projects.

Mar 2005 – Aug 2005: Consultant, Foxray AG, Norderstedt, Germany

- The company is a leading German software systems integrator for DMS-solutions. They support large corporate clients in areas such as high-volume scanning, inbound document processing, workflows and integration of ERP-systems.
- I worked at the company as a consultant, within the scope of co-operation between Foxray and my own company.
- I was responsible for sales activities and execution of consulting projects for clients. I also provided technical support within integration projects.

Jul 2003 – Sep 2003: Internship at JP Morgan, JP Morgan Chase & Co., London, UK

- The company is one of the world largest global financial services firms. I worked in the European head offices in London where I completed a 10 weeks summer internship in the Investment Banking Operations Department.
- I was introduced into various business areas of the company and gained insight into the corporate perspective of a global business. My responsibilities included software development and research.

Oct 2002 – Mar 2003: Chief Technical Officer, Palatial Leisure Ltd., London, UK

- The company is an overseas based branch of the UK Casino chain Palace Leisure Ltd. I held the post of the chief technical officer (CTO).
- My responsibility was to lead the internet business branch of the company. I was responsible for the strategic development of the business area. In particular, I was concerned with online marketing, partner relationships and customer support.

Nov 2000 – Mar 2002: Software developer at Merchant Internet Ltd., London, UK

- The company is an IT solutions provider concentrating on web-enabled software solutions. I held the post of a part-time software developer. My responsibilities included software engineering and application development. I was also involved in internet marketing consulting.

Jan 1997 – Aug 2000: Part-time IT developer, Hamburg, Germany

- During school-time I had various part-time IT jobs. My responsibilities included software development, internet site development and promotion, and software localisation.

Scholarships and grants:

- 2008: Genetic and Evolutionary Computation Conference (GECCO'08) student travel grant. 540 US Dollars (US\$).
- 2007: Two postgraduate student travel grants awarded by the Australian Research Council's Complex Open Systems Research Network (COSNet). Total value: 3343 Australian Dollars (AU\$).
- Jan 2007 – Ongoing: Faculty scholarship of Monash Faculty of Information Technology.
- May 2006 – Ongoing: Monash Graduate Scholarship (MGS).
- May 2006 – Ongoing: Monash International Postgraduate Research Scholarship (MIPRS).
- Oct 2003 – May 2004: Departmental Award. Department of Computer Science, University College London. 600 British Pounds (£) per month.
- 2002, 2002, 2003: Various one-off awards and bursaries from different student funding bodies within the University College London. Amounts range between 50 and 1000 British Pounds (£).
- 1996 – 1999: "J&E Frauendorfer-Förderstiftung"-scholarship for academic & social merit in school. 400 German Marks (DM) per month.

Prizes & awards:

- 2004: Prize for "Outstanding graduating student performance".
(Awarded by the examination board of the UCL Computer Science Department.)
- 2003: Prize for "The best continuing 3rd year student".
(Awarded by the examination board of the UCL Faculty of Engineering Sciences.)
- 2002: Prize for "Outstanding contribution to the social and intellectual life of the Department".
(Awarded by the examination board of the UCL Computer Science Department.)
- 2001 - 2004: Yearly joined the team of the Computer Science Department of the University College London to the British Computer Society Programming Competition.
 - Regional heats: 1st place in 2001 (team leader), 5th place in 2002, 1st in 2003, 4th in 2004 (team leader).
 - British National final: 3rd place in 2001 (team leader), 5th place in 2003.
- 2001 & 2003: Led a team to represent the UCL Computer Science Department to the national final of the Barclays Capital University Programming Competition. 2nd place on both occasions.
- 1996 – 1999: Yearly took part in the Federal Competition in Maths (Germany).
Various prizes in local and federal rounds.
- 1995 – 1999: Yearly took part in the Mathematics Olympics (Germany).
Several first prizes in local rounds. Three times took part in the regional finals.
- 1997: 1st price in the 1st round of the Federal Competition Informatics (Germany).
- 1997: Took part in the "10th Summer Academy of Mathematics" - the final round of the International Tournament of Towns in Math.

Social activities and responsibilities:

- 2007 – 2008: Treasurer of the ICT for Life Sciences Forum Students Chapter, Victoria, Australia.
- 2002 – 2003: 3rd year student representative at university. Position shared with 2 fellow students.
- 2001 - 2002: 2nd year student representative at university. Position shared with a fellow student.
- 1997 - 1999: Administrator of the student college library.
Took initiative and moved the cataloguing system from cards to a computer based system.
- 1997 - 1998: 12th-year-class representative at college. Position shared with a fellow student.
- 1997: Took part in and helped organising the 10th Summer Academy of Maths in Hamburg, Germany. The event takes place annually in a different country and acts as the final round of the International Tournament of Towns in Maths. I helped with translations and led some excursions into the city.

Referees: Academic and professional references available on request.