

Dr. James Stanier, PhD

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EDUCATION

PhD (Computer Science), University of Sussex, 2008-2011.
BSc Computer Science (1st), University of Sussex, 2005-2008.

BOOK CHAPTERS

Stanier, J. 2012. Graphs and Gating Functions, in preparation for the forthcoming textbook *SSA-based Compiler Design*.

PUBLICATIONS

Stanier, J. and Watson, D. 2011. Intermediate Representations in Compilers: A Survey. To appear in *ACM Computing Surveys*.

Stanier, J. and Watson, D. 2011. A Study of Irreducibility in C Programs. In *Software: Practice and Experience*, vol. 42 (1), pages 117–130.

Stanier, J. and Lawrence, A. 2011. The Value State Dependence Graph Revisited. In *Proceedings of the Workshop on Intermediate Representations (co-located with CGO 2011)*, pages 53–60.

Stanier, J., Naicken, S., Basu, A., Li, J. and Wakeman, I. 2010. Can We Use Trust in Online Dating? In *Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications*, vol. 1 (4), pages 50–61, 2010.

Stanier, J., Naicken, S., Basu, A., Li, J. and Wakeman, I. 2010. Can We Use Trust in Online Dating? In *Proceedings of the International Workshop on Trusted Communications in Decentralised Computing (co-located with IFIPTM 2010)*, Morioka, Japan.

IN PROGRESS OR SUBMITTED

Basu, A., Fleming, S., **Stanier, J.**, Naicken, S. and Wakeman, I. 2011. A Survey of Peer-to-Peer Network Simulators and Simulations. *Submitted to ACM Computing Surveys*.

TALKS

Compiling with the Value State Dependence Graph, *Imperial College London, April 2011*.

A Study of Irreducibility in C Programs, *University of Sussex, February 2011*.

Towards the Development of a VSDG Compiler, *SSA Seminar, Autrans, France, May 2009*.

PROFESSIONAL ACTIVITIES

Departments Chief

ACM XRDS Magazine
April 2011 – January 2012

Responsible for ensuring all non-feature article content is secured, collated and written, in addition to steering the direction of the magazine, assigning editors, and recruiting guest editors.

Features Editor

ACM XRDS Magazine
November 2009 – March 2011

Responsible for securing content for each issue, along with writing our regular departments. Part

of the editorial team that redesigned the magazine at ACM HQ in November 2009 for relaunch in Summer 2010.

Assistant Editor

ACM Crossroads Magazine

August 2009 – November 2009

Responsible for various editorial duties, including management of submissions and delegating work to other members of the team.

PC member: Trust and Privacy in Distributed Information Sharing (TP-DIS'11)

PC member: Security and Cognitive Informatics for Homeland Defence (SeCIHD'11)

ACM Student Chapter Excellence Judge, 2010, 2011.

Professional memberships: Student member of the IEEE and ACM.

ACADEMIC ACTIVITIES

Teaching Assistant

University of Sussex

October 2008 – Present

Taught exercise classes and seminars on the *Compilers* course (2008) and the *Compilers and Computer Architectures* course (2009, 2010). Performed marking for the *Databases* course (2011).

Postgraduate Research Student Representative

University of Sussex

October 2009 – October 2010

Student representatives provide a link between the university, the students, and the Student's Union. Attended departmental and school meetings to ensure that the views of research students were heard, and provided a point of contact for research students with issues.

PAL Leader

University of Sussex

October 2006 – July 2008

Involved in running a multitude of Peer-Assisted Learning (PAL) sessions for undergraduates in all years, ranging from support classes and labs to revision groups. Predominantly I assisted in 1st year undergraduate timetabled programming labs and ran 2nd and 3rd year revision sessions before examinations.

EMPLOYMENT

Software Developer

Brandwatch

September 2011 – Present

Part of the development team at Brandwatch. Working on the back-end of the software that crawls and analyses the vast content of the web.

Second Life Developer

University of Sussex and Clore Studio

February 2009

Developed a scale model of the Clore Studio at the Royal Opera House for use in a virtual ballet performance, as part of a research project in the School of Media, Film and Music at Sussex.

Second Life Developer

inQbate

September 2008

Developing a scale model of the inQbate lab in on the University of Sussex virtual campus. The main purpose was to allow potential users to explore the space and plan sessions without having to visit in person, and also to promote the space in a publicly accessible area. This build was also used as part of a research project in the same lab.

iPhone/Cocoa Developer

Antis - Indie Mac software

August 2008 – Present

Development of iPhone applications for sale on the iTunes App Store. Applications currently on sale are iRead, Task Focus, Flickr Mixr and Gig Radar.

J2ME Developer

Bright Artificial Intelligence, Ltd.

May 2008 – August 2008

Developed a number of mobile phone games using J2ME to be deployed on a variety of different handsets.

ART AND INSTALLATIONS

PixelWorms. Interactive installation. Update Conference, Brighton Museum, 5th September 2011.

Slider (I). Generative artwork. Exhibited at Duke of York's Picturehouse, Brighton, August 2011.

TECHNICAL SKILLS

Java, J2ME, Cocoa, Cocoa Touch (iPhone SDK), C, C++, Objective-C, Prolog, Haskell, Assembly, HTML, CSS, \LaTeX , Processing, Mac OS X, Linux/Unix.

HOBBIES AND INTERESTS

Cycling; badminton; reading; guitar and synthesisers; writing; fitness and weight training.

REFERENCES

Dr. Des Watson (DPhil supervisor)
School of Informatics
University of Sussex
Falmer, Brighton
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`desw@sussex.ac.uk`

Prof. Alan Mycroft (DPhil collaborator)
University of Cambridge
Computer Laboratory
William Gates Building
15 JJ Thomson Avenue
Cambridge, CB3 0FD
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`am@cl.cam.ac.uk`