Will Webberley

Curriculum Vitae

School of Computer Science & Informatics
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Education

2010–2014 (expected)	**PhD Computer Science**, *Cardiff University*, "*Inferring Interestingness in Online Social Networks*".

Exploring information propagation in online social networks. In particular, the use of Bayesian machine learning methodologies in the prediction of Tweet popularity in Twitter as a basis for the inference and ranking of interesting Tweets.

I have periodically published interesting findings and analyses in proceedings, and have contributed to the "excellent"-rated EU Recognition project.

I am in the finishing stages of my PhD, and expect to submit my thesis by Spring 2014.

2007–2010 **BSc Computer Science**, *Cardiff University*.
First Class Honours

2006–2007 **A-Levels**, *King's School, Worcester*.
A2-level: Mathematics, Biology, Chemistry
AS-level: Physics

Experience & Employment

2010–Present **Cardiff University**, *Teaching assistant and student supervisor*, School of Computer Science & Informatics.

Many hours a week of teaching undergraduate and masters students on a wide range of topics as a module tutor, year-long group supervisor, practical lab leader, and in lecture-style sessions for groups of up to 140 students at a time. I am also responsible for the assessment (including feedback) of student work in the form of coursework, practical demos, project reports, and presentations.

Examples of subjects taught: Python, JAVA, web application programming, computer architecture, mobile communications and meta heuristics, algorithms and data structures, communication & professional skills, assembly language.

Examples of projects supervised: Social media visualisation toolkits, coursework assistance tools, user-contributed geo-information sharing mobile app design.

2010 **Abercrombie & Fitch**, *Hollister Impact*, Cardiff.

I was responsible for organising the store's products, receiving and oragnising shipments, keeping track of stock, and store replenishment. I gained experience that helped to improve my communication skills across teams in a diverse workforce, professionalism, and precise organisation.

2009 **Pulse**, *Bar staff*, Cardiff.

I worked as part of a vibrant and outgoing team involving direct contact with customers, which helped improve my communication and teamwork skills, confidence, and quick-thinking in a very fast-paced environment and over prolonged periods of time. I was responsible also for the supervision and training of new members of staff.

Peer-Reviewed Publications

Sept. 2013 **Inferring the Interesting Tweets in Your Network**,
Will Webberley, Stuart M Allen, Roger M Whitaker,
in Workshop on Analyzing Social Media for the Benefit of Society (SOCIETY2.0),
3rd International Conference on Social Computing and its Applications (SCA).
At: Karlsruhe, Germany / *Reviewed:* Blind peer-reviewed / *Publisher:* IEEE

Sept. 2011 **Retweeting: A Study of Message-Forwarding in Twitter**,
Will Webberley, Stuart M Allen, Roger M Whitaker,
in Workshop on Mobile and Online Social Networks (MOSN'11),
5th International Conference on Network and System Security (NSS).
At: Milan, Italy / *Reviewed:* Double-blind peer-reviewed / *Publisher:* IEEE

Community Involvement & Contribution

Articles ○ Invited articles for the Heroku Dev Center:
- "Direct-to-S3 File Uploads in Node.js", *Heroku 2014*
- "Direct-to-S3 File Uploads in Python", *Heroku 2013*

Talks ○ **Informal**
- "Contributing to the Open-Source World", *FTS, 2014*
- "The Flask Microframework", *FTS, 2013*
- "Node.js", *FTS, 2012*
- "Introduction to LaTeX", *FTS, 2012*
- "Developing Google Chrome Extensions", *FTS, 2011*

○ **Formal / academic**
- "Inferring Interestingness in Online Social Networks" *Invited speaker at King's College, London, 2014*
- "Inferring the Interesting Tweets in Your Network", *SOCIETY2.0, Karlsruhe, Germany, 2013*
- "Finishing a PhD in Under 4 Years", *COMSC Research Retreat, 2013*
- "Seminar: WEKA - the machine learning toolkit", *COMSC MobiSoc Research Group, 2013*
- "Inferring interesting Tweets from your Network", *COMSC Informatics Group Seminar, 2013*
- "Modelling the behaviour of retweets", *COMSC Research Retreat, 2012*
- "Retweeting: A Study of Message-Forwarding in Twitter", *MOSN'11, Milan, Italy, 2011*
- "Getting relevant information to the right people in social networks", *COMSC Research Retreat, 2011*

Events ○ **Organised**
- FTS seminar series, *School of Computer Science & Informatics 2010-2013*
- DigiSocial Hackathon, *2012*

○ **Taken part in**
- Cardiff Open Sauce Hackathon, *2013* - **Award:** *'Openness' Award*

Projects	*Examples of software projects completed in my spare time (many more on request):*
	○ **WekaPy** - *Python wrapper for the WEKA machine-learning toolkit*
	○ **Gower Tides** - *Android (JAVA) app providing tidal, surf, and weather reports for the Gower Peninsula*
	○ Various ad-hoc web apps and sites
General	I am an active member of COMSC's MobiSoc ('mobile & social') and Informatics research groups and I co-organise, with one other research student, weekly talks and events for research students. I enjoy keeping up with technological news and advances and attending local events, such as those held by UnifiedDiff and Cardiff Start.

Skillset

General

I have excellent written and verbal communication skills, I am experienced in working in interdisciplinary and distributed research teams and collaborations and I enjoy conveying ideas and research through reports, talks, and presentations.

Technical

I have experience in and enjoy these coding/markup languages and techniques.

Experienced	Python, JAVA, PHP, Shell, SQL, LATEX, HTML & CSS, JavaScript (inc. libraries such as JQuery)
Intermediate	Perl, Ruby, C, C++

Platforms and Technologies

I have worked and developed with the following technologies and platforms.

Experienced	Git, Android, GNU/Linux, UNIX, Flask, NoSQL platforms (including MongoDB, CouchDB), WEKA, Node.js, Flask
Intermediate	Django, Rails, iOS

Awards and Proposals

2013	○ Department award for best research presentation (year three)
	○ Department award for best research poster (year three)
	○ Student award for best research poster (year three)
2012	○ Applied for and awarded £850 funding to host an interdisciplinary hackathon between SOCSI and COMSC
	○ Department award for best research presentation (year two)
2011	○ Student award for best research poster (year one)

Relevant Training

2010	Demonstrating Laboratory Based Teaching - *UGC*
2010	Assessing Student Learning in the Sciences - *UGC*