

# Will Webberley

## Curriculum Vitae

School of Computer Science & Informatics  
Cardiff University, Cardiff. CF24 3AA

☎ 07787 567865

✉ W.M.Webberley@cs.cardiff.ac.uk

🌐 flyingsparx.net

🐦 @flyingSparx

📍 flyingsparx

### Education

- 2010–2014 **PhD Computer Science, Cardiff University,**  
(expected) "*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 organising 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.

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## 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),  
3<sup>rd</sup> 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),  
5<sup>th</sup> International Conference on Network and System Security (NSS).  
At: Milan, Italy / Reviewed: Double-blind peer-reviewed / Publisher: IEEE

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## Community Involvement & Contribution

- Articles ○ "Direct-to-S3 File Uploads in Python", *Heroku* 2013  
- Invited development article for Heroku's *Dev Center*
- Talks ○ **Informal**  
- "The Flask Microframework", 2013  
- "Node.js", 2012  
- "Introduction to L<sup>A</sup>T<sub>E</sub>X", 2012  
- "Developing Google Chrome Extensions", 2011
- **Formal / academic**  
- "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.

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## 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, L<sup>A</sup>T<sub>E</sub>X, 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

Intermediate Django, Node.js, Rails

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## 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)

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## Relevant Training

2010 Demonstrating Laboratory Based Teaching - UGC

2010 Assessing Student Learning in the Sciences - UGC