

# ELIZABETH FRANCES HINCHLIFF PHILLIPS

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## COMPUTER SKILLS

### LANGUAGES

Java, Oberon, Haskell, C, C++, Python, JavaScript, HTML, CSS, Ruby

## EXPERIENCE

20/06/2016 – 16/09/2016

### SOFTWARE ENGINEERING INTERN

- Worked on identifying inactive users within the Display Ads Privacy team. Coded in C++.

GOOGLE INC, MOUNTAIN VIEW

25/06/2015 – 18/09/2015

### SOFTWARE ENGINEER IN TEST INTERN

- Worked on creating a fuzz testing framework for the Widevine Content Decryption Module (CDM) as part of the Google Chrome web browser.
- Created the framework using C++ and python languages and successfully found bugs in the CDM.

GOOGLE INC, KIRKLAND

01/10/2014 - PRESENT

### COMPUTER SCIENCE TUTOR FOR UNDERGRADUATES

- Responsible for teaching a range of topics including Computer Security, Advanced Computer Security, Digital Systems and Models of Computation through a mixture of practicals and tutorials.

OXFORD UNIVERSITY

01/10/2014 - PRESENT

### TEACHING ASSISTANT

- I am one of three assistants for the Code First:Girls Coding classes covering HTML, CSS, Ruby and Ruby on Rails for non-computer scientists.

CODE FIRST:GIRLS

02/07/2013 TO 30/09/2013

### IT PROGRESSION WORKING GROUP ACADEMIC ADVISOR

- One of the 4 members responsible for helping create a new suite of IT Progression qualifications in Digital Security.
- Part of the 24-strong team responsible for creating the exam questions and helping to review the teaching material.

OCR EXAMINATION BOARD

30/06/2013 TO 13/09/2013

### CAPACITY BUILDING CENTRE RESEARCHER

- Individually responsible for creating the foundation documents and literature reviews outlining the current activities surrounding technology, processes and standards, as well as existing Cyber education techniques to help increase cyber literacy and training.
- Responsible for briefing the working group for the technology & standards dimension for the launch of the Capacity Building Centre.

GLOBAL CYBER SECURITY CAPACITY CENTRE

30/03/2013 TO 13/09/2013

### BRAINS TRUST TEAM MEMBER

- Converted the existing flowchart creation tool into "Bender" language in order to reduce the tests required for complete test coverage.
- Coded in C++ and built up my knowledge of the BenderRBT framework using "cause-effect graphing" (CE-Graphing).

GRID TOOLS

02/07/2012 TO 30/09/2012

### SPONSORED UNDERGRADUATE TECHNOLOGIST

- Secured an internship to undertake a summer project for 9 weeks working on various aspects of Cyber Security where I worked on a solo project within a specialist Identity Assurance team and produced an internal report. Coded in C++, Java and Python.

CIVIL SERVICE

03/10/2011 – 06/03/2012

### RESEARCH INTERN

- During the 6 Months I was unable to attend the university I obtained an internship working in the newly established Cyber Security Group.
- Worked on a solo project entitled "*Identity Security in Cyberspace*" supervised by Prof Sadie Creese and Prof Michael Goldsmith.
- Conducted a desktop survey to establish the range of potential inputs, which might be utilised to identify and attribute behaviours online and undertook a practical investigation to test the strength of our proposals in our first 3 months.

CYBER SECURITY GROUP, OXFORD UNIVERSITY

23/07/2011 TO 30/07/2011

### COMPUTER SCIENCE ACADEMIC MENTOR

- Solely responsible for the academic progress of 10 computer science students during the summer school and was responsible for assisting a further 10 students along with 1 other mentor alongside practical assignments, marking personal statements and providing tuition.

UNIQU SUMMER SCHOOL

## AWARDS

### BEST PAPER AWARD

Barcelona, Spain

NOVEMBER 2015

- Awarded the best presentation at the conference and was selected to present my work in the follow-on journal.

### GRACE HOPPER CONFERENCE SCHOLAR / ACM

Houston, Texas

OCTOBER 2015

### STUDENT RESEARCH COMPETITION FINALIST

- Awarded a scholarship to attend the conference and was selected as a finalist for the ACM student research competition.

### U.S. EMBASSY EXCHANGE PROGRAM PARTICIPANT

Washington D.C.

SEPTEMBER 2015

- Was selected as a "future leader of cyber security" and invited to participate in an exchange program with the U.S. embassy in order to learn about U.S. efforts to protect cyberspace by working with U.S. government officials working on cyber policy from a wide range of organizations.

### BLACKHAT AND EWF SCHOLAR

Las Vegas

AUGUST 2015

- Awarded a scholarship to attend the prestigious BlackHat Conference and an EWF scholarship to attend the conference.

### GREPSEC II & SECURITY AND PRIVACY SCHOLAR

San Jose

MAY 2015

- Successfully achieved one of two international travel grants for the GREPSEC workshop as part of the Security and Privacy Symposium.

### WICYS SCHOLARSHIP

Atlanta

MARCH 2015

- Successfully achieved a scholarship to attend the second Women in CyberSecurity Conference.

### CANADA-UK COLLOQUIUM REPRESENTATIVE

Ottawa & Montebello, Canada

NOVEMBER 2014

- One of two students selected to work alongside academics, professionals, MPs and embassy officials to design the latest Cyber Security Policies.

### GOOGLE WOMEN IN TECH AWARD

Amsterdam

MAY 2014

- Successfully achieved a women in tech travel grant to attend the "Hack in the Box Conference" in Amsterdam.

## EDUCATION

- SEPTEMBER 2013 – PRESENT Oxford University Oxford  
**DPHIL, CYBERSECURITY CENTRE FOR DOCTORAL TRAINING**
- Covered a wide variety of topics including Cyber Ethics, Information Risk, Policy and governance of Cyberspace, criminology, formal verification and system security. Worked on 2 mini-projects on **“Applying Social Network Analysis to Security”** and **“Designing a Cyber Security Skills Framework for South Africa”**. I am also responsible for running the Computer Security practical labs for undergraduates.
- SEPTEMBER 2008 – JUNE 2013 Oxford University Oxford  
**MMATHCOMPSCI / BA, MATHEMATICS AND COMPUTER SCIENCE** CLASSIFICATION:- 2:1
- 4th year project on redefining the dimensions of the super-identity model.
- SEPTEMBER 2006 – JUNE 2008 St Michael’s School Bryn, Llanelli  
**A LEVELS:-** A’s in CHEMISTRY, MATHEMATICS, FURTHER MATHEMATICS and PSYCHOLOGY  
**AS LEVELS:-** A in BIOLOGY
- JUNE 2008 Dyfed and Glamorgan ACF TA Centre, Litchard, Bridgend  
**BTEC FIRST DIPLOMA IN PUBLIC SERVICES**
- Grade achieved:- Distinction\*
- SEPTEMBER 2001 – JUNE 2006 Ysgol Dyffryn Aman Rhydaman, Sir Gar  
**GCSE**
- 6 A\*\*’s and 6A’s in a wide range of subjects including Maths, Dual Award Science, ICT, French, Cerddoriaeth(Music) English Language, English Literature, Cymraeg Iaith Cyntaf (Welsh First Language), Llenyddiaeth Cymraeg (Welsh Literature), Religious Studies and History.

## PUBLICATIONS

- NOVEMBER 2015 SOTICS ‘15 Barcelona  
**EXTRACTING SOCIAL STRUCTURE FROM METADATA ON DARK WEB FORUMS**  
ELIZABETH PHILLIPS, JASON R.C. NURSE, MICHAEL GOLDSMITH AND SADIE CREESE
- Fifth International Conference on Social Media Technologies, Communication and Informatics (SOTICS’15).
- OCTOBER 2015, MARCH 2015 & FEBRUARY 2015 Grace Hopper 2015, WICYS 2015 & Sustainable Cyber Security 2015 Houston, Atlanta & Coventry  
**APPLYING SOCIAL NETWORK ANALYSIS TO SECURITY**  
ELIZABETH PHILLIPS, JASON R.C. NURSE, MICHAEL GOLDSMITH AND SADIE CREESE
- Poster to be presented at GHC 2015 and selected for the ACM student research competition.
  - Poster, presentation and paper presented at WiCyS 2015 Conference in Atlanta.
  - In First International Conference on Cyber Security for Sustainable Society 2015, pages 11-27.
- OCTOBER & JUNE 2014 Grace Hopper Conference 2014 & Student Conference 2014 Phoenix & Oxford University  
**IDENTITY SECURITY IN CYBERSPACE – A DATA REACHABILITY MODEL**  
ELIZABETH PHILLIPS
- Poster presented at Grace Hopper 2014.
  - Paper and presentation presented at the 2014 Student Conference.
- MAY 2014 To be published September 2014 BCS HQ, London  
**THE INFORMATION ASSURANCE / INFORMATION SECURITY CAREER FRAMEWORK**  
ELIZABETH PHILLIPS, PAUL D JAGGER AND CHRISTOPHER JAGGER
- In BCS Learning and Development.
- JUNE 2012 TrustCom 2012 Liverpool  
**A DATA-REACHABILITY MODEL FOR ELUCIDATING PRIVACY AND SECURITY RISKS RELATED TO THE USE OF ONLINE SOCIAL NETWORKS**  
SADIE CREESE, MICHAEL GOLDSMITH, JASON R.C. NURSE AND ELIZABETH PHILLIPS
- In 2012 International Workshop on Trust, Security and Privacy in e-Government, e-Systems & Social Networking (eGSSN-12) at 11th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-12). Pages 1124–1131. IEEE. 2012.

## EXTRA CURRICULAR ACTIVITIES

- OXFORD WOMEN IN COMPUTER SCIENCE PRESIDENT** JUNE 2014 - PRESENT
- President of the Oxford Women in Computer Science Committee. Responsible for chairing committee meetings, liaising with industry sponsors and liaising with other societies across Oxford.
  - Previously elected as the conference coordinator which involved setting up the first Oxbridge Women in Computer Science Conference in 2014.
- WORCESTER COLLEGE MCR – IT REP** APRIL 2014- PRESENT
- Responsible for coordinating with the college IT department and the university IT department to facilitate the procurement of IT components and help steer new IT directives for the department.
- OUTREACH AND WIDENING PARTICIPATION AMBASSADOR** DECEMBER 2011 - PRESENT
- Assist at several Departmental open days (including women in computer science days) as well as running programming sessions, presenting introductory Cyber Security talks and security practical sessions. Assist at several events for students aged 13 to 16 ranging from mock interviews, assisting on revision sessions, career festivals (such as CareerFest 2014), providing academic taster days and residential courses.
  - One of 14 student mentors chosen to represent the university and women in science to help host Elizabeth Garrett Anderson Language College and the US First Lady Michelle Obama.
- CADET FORCE ADULT VOLUNTEER (CFAV)** JUNE 2008 – PRESENT
- Elected as the DofE officer and a First Aid at Work assessor.
  - Responsible for organizing and planning all aspects of the cadets’ training as well as providing discipline and pastoral care.

## REFERENCES

- References available upon request