

EDUCATION

- University of Oxford**, DPhil in Cyber Security 2014 – now
Dissertation: *Adversarial Electromagnetic Interference*, supervised by Prof. Kasper B. Rasmussen
Funding: Clarendon Scholarship, EPSRC Studentship, Kellogg College Cyber Security Scholarship, CDT in Cyber Security Award
- University of Cambridge**, MPhil in Advanced Computer Science 2013 – 2014
Marks: 87.95%, Distinction, Ranked Second in Year
Project: *Distributed Massive Graph Triangulation*, supervised by Dr. Eiko Yoneki
Funding: Goulandris Scholarship at Magdalene College
- Princeton University**, AB in Mathematics *with Certificate in Applications of Computing* 2009 – 2013
GPA: 3.978/4.0, Summa Cum Laude, Phi Beta Kappa
Thesis: *A Practical Variant of Cuckoo Hashing*, supervised by Prof. Robert Sedgewick
- Anatolia College**, IB Diploma 2007 – 2009
GPA: 45/45 (Top 0.19% Worldwide), Valedictorian

PEER-REVIEWED PUBLICATIONS

- I. Giechaskiel, C. Cremers, and K. Rasmussen, *On Bitcoin Security in the Presence of Broken Cryptographic Primitives*. 21st European Symposium on Research in Computer Security (ESORICS) 2016
- I. Giechaskiel, G. Panagopoulos, and E. Yoneki, *PDTL: Parallel and Distributed Triangle Listing for Massive Graphs*. 44th International Conference on Parallel Processing (ICPP) 2015
Extended Version: University of Cambridge, Computer Laboratory, Technical Report UCAM-CL-TR-866

TECHNICAL REPORTS

- I. Giechaskiel, and K. Eguro, *Information Leakage Between FPGA Long Wires*. arXiv:1611.08882 2016
- I. Giechaskiel, *Eavesdropping on and Emulating MIFARE Ultralight and Classic Cards Using Software-Defined Radio*. University of Oxford, CDT in Cyber Security, Technical Report 12/15 2015

INTERNSHIPS

- Microsoft Research**, *Embedded Systems and Reconfigurable Computing* Summer 2016
FPGA side-channel project under Dr. Ken Eguro. More details to be added after publication of the results.
- Dropbox, Inc.**, *Product Abuse and Security* Summer 2014
Developed a fully automated malware detection and takedown system in Python with false positive fail-safes
Improved other anti-abuse measures, and created dashboards to monitor the effectiveness of my tools
- Microsoft Corporation**, *Windows Reliability, Security, and Privacy* Summer 2012
Built a C++ runtime analysis tool to find DLL hijacking and related security and reliability vulnerabilities
Enhanced the existing defect analysis tools, fixing bugs and adding capabilities in the process
- Bloomberg L.P.**, *Data License* Summer 2011
Created a three-tiered system in C++ and JS to aggregate data and provide time estimates for client requests
Developed a dynamic interface and database project to show usage and revenue for Data License clients

ACADEMIC AWARDS

- University of Oxford**, Clarendon Scholarship 2014
Full funding awarded on academic merit to around 140 new Oxford graduate students across all disciplines
- Princeton University**, Peter A. Greenberg '77 Memorial Prize 2013
Awarded by the Mathematics department for "outstanding accomplishments in mathematics"
- Princeton University**, Student Teaching Award 2013
Awarded by the Computer Science department during graduation
- Princeton University**, Early Phi Beta Kappa Election 2012
Early election to the Phi Beta Kappa academic honor society, extended to the 16 best Princeton '13 students

Princeton University , Shapiro Prize for Academic Excellence	2011
Awarded to 42 students in the Princeton class of 2013 to recognize “outstanding academic achievement”	
International Mathematical Competition for University Students , Second Prize	2010
International Mathematical Olympiad , 2 Honorable Mentions	2008 – 2009
Balkan Mathematical Olympiad , 2 Bronze Medals	2008 – 2009
Greek National Mathematical Olympiad , 2 Gold, 1 Silver, and 1 Bronze Medals	2006 – 2009

TEACHING POSITIONS

University of Oxford , Teaching Assistant	Michaelmas 2016
Marked assignments for Graph Theory (Math B8.5)	
University of Oxford , Tutor	Michaelmas 2016
Demonstrated problems in class for Communications Theory (Math B8.4)	
Princeton University , Grader	Fall 2011 – Spring 2013
Graded programming and theory assignments for Algorithms and Data Structures (COS226), Introduction to Graph Theory (MAT306/COS342), Artificial Intelligence (COS402), and Theory of Algorithms (COS423)	
Princeton University , Lab Teaching Assistant	Spring 2012 – Spring 2013
Helped students with debugging in Operating Systems (COS318) and other courses (COS126/217/226)	

CAPTURE-THE-FLAG AND HACKATHONS

Oxford Computer Science Capture-the-Flag Team Ox002147 , Captain and Co-Founder	2016 – now
Recovered most of the points for the team in multiple online and in-person CTF contests	
Deloitte CTF Final , First Place	2016
First place (£3,000 prize) with the 5-person Ox002147 team against 8 university teams (17 in qualifier)	
BAE Systems Varsity CTF , First Place	2016
First place with the 6-person Ox002147 team against 25 teams from Cambridge and Oxford	
Tripwire VERT Cyber Security CTF Contest , Second Place	2015
Placed second out of over 130 contestants. One of only two contestants to recover all flags	
Dropbox Hack Week , “It’s Good To Be Here” Award	2013
Led a 3-person team to create the winning “Print from Android” app in the 5-day hackathon	
Microsoft Windows Princeton Hackathon , First Prize	2013
Created a “Collaborative Paint” Windows 8 application in a team of 3 over the course of 36 hours	

OTHER ACTIVITIES AND AFFILIATIONS

Oxford University Greek Society , President	2016 – now
Princeton Alumni UK , Communications & Technology Board Chair	2015 – now
Princeton University , Volunteer Interviewer for Applicants from Greece and the UK	2014 – now
Ross Mathematics Program , Scholarship Student and Junior Counselor Alumnus	2007 – 2008
Camp Rising Sun , Alumnus	2006

TECHNICAL SKILLS

Programming Languages

Python, Bash, PowerShell, Assembly, C, C++, Java, PHP, JavaScript, SQL, Verilog, Mathematica, MATLAB

Theoretical Background

Computer Networks and Security, Algorithms and Complexity Theory, Combinatorics and Graph Theory