

Andrius Aucinas

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Education

PhD Computer Science, University of Cambridge

October 2011 – present

Main research interests:

Energy efficient communication and computing • Mobile wireless network optimizations • Wireless protocol design and adaptation

Department, group:

Computer Laboratory, Systems Research Group, NetOS

Supervisor:

Prof. Jon Crowcroft

Key Experience:

- Accurate profiling of mobile device energy and computing resource consumption
- Expert knowledge of 3G UMTS and 4G LTE network operation and the Radio Access Network (RAN) resource management
- Excellent understanding of networking protocols with particular focus on push notifications and the Transmission Control Protocol (TCP)
- Experience in prototyping TCP extensions and testing for deployment issues across mobile and wireless networks in the presence of network middleboxes
- Practical knowledge of the internal operation of the Android platform with the focus on resource management and skills of customizing and deploying the platform
- Hands-on experience with HTML5 technology stack, including detailed understanding of the internals of Firefox rendering engine (Gecko) and the FirefoxOS mobile platform
- Public speaking skills at a number of top international conferences and organisations

BA Computer Science, University of Cambridge

October 2008 – July 2011

Degree:

BA Hons, II class part 1

Projects:

Digital video stabilization, Feature-based image stitching

High School, Vilnius Lyceum, Lithuania

September 2004 - July 2008

Professional Experience

Co-Founder, CTO, Cambridge Coding Academy

August 2014 – Current

- Setting up the technical base for successful company growth
- Public speaking at events for careers advisors and Computer Science teachers
- Teaching programming a variety of people from 14 to 40 years old
- Preparing teaching courses on Data Visualisation with JavaScript and co-authoring beginner courses based on game programming
- Managing event logistics for one-day coding workshops

Internship, Telefonica Innovation + Development, Barcelona, Spain

September 2012 – January 2013

- Communication offloading for reduced mobile device energy consumption
- Prototyping the system on a HTML5 mobile platform, FirefoxOS
- Characterization of current applications on the Android platform using power measurements and network compliance testing facilities
- Submitting a paper to ACM SIGCOMM as the lead author

Supervisors: Dr. Yan Grunenberger, Dr. Konstantina Papagiannaki

Internship, Deutsche Telekom Laboratories (INET), Germany**August 2011 – September 2011**

- Conceptualizing ideas on mobile and cloud computing, next generation cellular networks
- Providing in-depth analysis of the approaches from technological and economical perspectives
- Preparing and submitting a patent application

Supervisor: Dr. Pan Hui

Internship, Deutsche Telekom Laboratories (INET), Germany**June 2010 – August 2010**

- Leading a project on using cloud computing for performance and energy efficiency of mobile devices
- Implementing majority of the components required for the project
- Organizing collaboration with international institutions: Uni. Cambridge, Samsung SISA, Uni. Michigan

Supervisor: Dr. Pan Hui

Internship, Computer Laboratory, University of Cambridge (NetOS), UK**June 2009 – August 2009**

- Designing and building a tool for social interaction tracking using mobile device sensors
- Learning practical sensing approaches as well as speaker recognition from voice
- Contributing to a publication at Ubicomp 2010

Supervisors: Dr. Cecilia Mascolo, Dr. Mirco Musolesi

Internship, UAB “Atea Baltic” (Software Development), Lithuania**August 2009 – September 2009**

- Working in a small team of developers and developing using industry standards
- Working on large-scale business applications and utilities for them

Olympiads in Informatics**2004 - 2008**

- International (2006, 2008), Baltic (2006 – 2008), National (2004 – 2008) Olympiads in Informatics
- Excellent algorithmic programming skills, superior problem solving skills
- Experience of working under pressure and strict time limits
- Awards at national and international levels (prizes at national Olympiads and bronze medal at Baltic)

Honours and Awards

- SIGCOMM 2012, CoNEXT 2013 and SIGCOMM 2014 Student Travel Awards
- 2013 CoNEXT Best Paper Award nomination for lead-author paper
- 2011 EPSRC Doctoral Training PhD funding
- 2011 Deutsche Telekom Laboratories PhD CASE Award
- 2008 Cambridge European Trust scholarship for the period of BA Computer Science studies
- 2008 UAB “Atea Baltic” sponsorship for the period of BA Computer Science studies in Cambridge

Other Related Interests and Activities

- Co-organizer of Mobisys’14 PhD Forum – sponsorship, organizing TPC and panel, web chair
- Web Chair of ACM E-Energy’14
- Member of the STEMNET, Science, Technology, Engineering and Mathematics Network
- Organizing the Lithuanian National Olympiads in Informatics (part of the technical committee)
- Lecturing, volunteering at the National Students Academy (for gifted and talented youth), Lithuania