

# DAVID N. COTTINGHAM

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## EDUCATION & QUALIFICATIONS

### **Ph.D., Computer Laboratory, University of Cambridge, (2004 – 2008)**

Optimising wireless connectivity to vehicles by using them as mobile sensors to create wireless coverage maps. Developed novel algorithms to process large quantities of signal strength data. Developed a novel routing algorithm to optimise what handovers are performed along a particular geographical route. Interested in cognitive radio, intelligent transportation systems, technologies for (vehicular) congestion charging (journal paper published), and wireless technologies (IEEE 802.11x, 802.16, UMTS). Attended various courses on technology management, innovation, and entrepreneurship.

### **B.A. (Hons.), Computer Laboratory, University of Cambridge, (2001 – 2004)**

Computer Science, Second class, 1<sup>st</sup> division (2:1)

Part II dissertation (12,000 words) on the design and simulation of an energy-aware routing protocol for mobile ad hoc networks. Used OPNET modeller and wrote ~10,000 lines of custom C code.

### **Certificate in Management , Pershore College Business School (2001, part time)**

NEBS certificate taken during gap year. Interested in technology strategy.

### **‘A’-Levels (1999 – 2000)**

Mathematics (A), Physics (A), Chemistry (A), Biology (A), Spanish (A), French AS (B).

### **GCSEs (1997 – 1998)**

5 at grade A\*, 4 A, 1 B

English-speaking secondary school (Sunny View School, Malaga 29620, Spain)

Spanish-speaking primary school (C.P. Gandhi, Malaga 29190, Spain)

## SELECTED PUBLICATIONS

(See <http://www.cl.cam.ac.uk/~dnc25/publications.html> for a full list.)

- D. Cottingham, R. Harle, A. Hopper, Constructing Accurate, Space-efficient, Wireless Coverage Maps for Vehicular Contexts. *ICST WICON*, Nov. 2008.
- D. Cottingham, A. Beresford, R. Harle, A Survey of Technologies for the Implementation of National-Scale Road User Charging. *Transport Reviews*, 27 (4), pp 499-523, Jul. 2007.
- D. Cottingham, I. Wassell, R. Harle, Performance of IEEE 802.11a in Vehicular Contexts. *IEEE Vehicular Technology Conference*, pp 854-858, Apr. 2007.
- P. Vidales, C. Bernardos, I. Soto, D. Cottingham, J. Baliosian, J. Crowcroft, MIPv6 Experimental Evaluation using Overlay Networks. *Computer Networks*, 51 (10), pp 2892-2915, Jul. 2007.

## EMPLOYMENT

### **Engineering Relationship Manager – Citrix Systems R&D (May 2009 – )**

Responsible for team interfacing between Tier 1 OEMs, IHVs, high-touch customers and XenServer engineering. Involves requirements gathering, technical authoring, presenting to diverse audiences, explaining technologies to potential partners' engineering teams, liaising with business development, triaging bugs raised by partner engineering teams, product feature leading, and mentoring software engineers.

### **COO & Consultant – N-Sim (July 2005 – )**

Director of software consultancy start-up (8 people, part time). Responsible for tax and legal affairs. Jointly responsible for face-to-face client liaison, as well as carrying out software development and consultancy.

### **Supervisor to Undergraduates – University of Cambridge (October 2004 – July 2007)**

Taught various courses to tutorial groups of two to three students, 40 hours per term.

### **OIP Analyst – Credit Suisse First Boston (July 2003 – September 2003)**

Summer internship. IT Operational Improvement Programme. Project management and risk assessment. Streamlined application assessment process. Solely responsible for assessing a trading system, recommending infrastructure improvements worth £50,000. Liaised with UK and US staff, technical and non-technical.

### **Network Engineer – Credit Suisse First Boston (July 2002 – September 2002)**

Summer internship. Jointly responsible for migrating critical network links to stock exchanges to new infrastructure. Liaised internally with business and infrastructure groups, and externally with international exchanges, ensuring no trading downtime.

### **Nuclear Engineer IP – British Energy (August 2000 – August 2001)**

Gap year. Responsible for entire project of recoding (in Excel VBA), spreadsheets used for calculations of Nuclear Safety significance, documentation and risk assessments, laying down the computer strategy related to their use, and designing testing regimes.

### **Senior event co-ordinator – Andalusian Orienteering Federation (1998 – 2000)**

Organisation of major orienteering events (part time), IT administration and team leader for various aspects of events. Designed database system for event management. Responsible for all IT systems at the 2000 Spanish National Championships.

## SKILLS, ACTIVITIES & INTERESTS

- **Languages:** fluent in English and Spanish, advanced French, conversational Dutch
- **Technical Partner Management:** translating between highly technical teams, contracts review, interfacing with product managers, customers, ISVs, IHVs, OEMs.
- **Consultancy:** internally at Credit Suisse and as part of a small group asked to review IT strategy and support at the Computer Laboratory, externally at N-Sim
- **Networks:** in depth TCP/IP, wireless technologies (in depth IEEE 802.11a/b/g, working knowledge of GSM, GPRS, UMTS, familiar with IEEE 802.16 WiMAX), in depth vertical handovers, vehicular networks, working knowledge of sensor/ad-hoc networks, working knowledge of Cisco routers and switches
- **Programming languages:** working knowledge of Java, Perl, SQL, VBA (Excel), familiar with C, Bash
- **Databases:** working knowledge of PostgreSQL, MS Access
- **System administration:** familiar with Linux (various distributions) and Windows
- **Reviewer** for multiple IEEE and ACM conferences and journals. **Technical Programme Committee member** for ICST TRIDENTCOM 2008, 2009 conferences
- **Sports:** Cycling, orienteering.
- **Teaching:** supervise final year undergraduate projects at University of Cambridge.

- **Choral singing:** member of Churchill Chapel Choir since 2001
- **First Aid:** St. John Ambulance (performing first aid at public events), trained in advanced first aid.