

THE UNIVERSITY *of* York

Professor John A Clark (1992 – present day) Brief Teaching CV

A. GENERAL

Name: John Andrew Clark. MA (Maths, Oxon). MSc (Applied Statistics, Oxon). PhD (Computer Science, Ebor)

Department: Computer Science

Date of Appointment: October 1992.

Present Position: Professor of Critical Systems (since 2005)

Previous Posts:

1986-87. Ad hoc tutorials for Oxford colleges, Dept. of Mathematics, Dept. of Economics and Statistics.

1987-92. Security and high integrity software evaluator at Logica. Security R&D think tank.

1992-2001. Lecturer in Safety Critical Systems.

2001-2004. Senior Lecturer in Critical Systems.

B. RESEARCH PUBLICATIONS SUMMARY

I was originally recruited to set up, develop and deliver an advanced MSc in Safety Critical Software Engineering. I became “research active” at or around 1997. I have authored or co-authored over 140 publications. Details can be found at <http://www-users.cs.york.ac.uk/~jac/Research.html>.

C. TEACHING

I have been involved in the UG programmes (BSc/BEng CS, MEng, MMath) and also in three MScs. I was originally recruited to help set up the MSc in Safety Critical Software Engineering (SCSE), and also participated strongly in the MSc Software Engineering and MSc Natural Computation. I have also had involvement in externally delivered modules to industry.

LIST OF MODULES

- 1993. Discrete Mathematics (1st year, filling in for colleague on sabbatical)
- 1994-1995. Formal Specification of Software (2nd year, developed from scratch, 10 credits)
- 1994. Team Software Project (2nd year, 10 credits, with Jim Briggs)
- 1996-1997. Mathematics for Safety (half of 10 credits, developed from scratch).
- 1996-2003. Computer Systems Security (developed from scratch, contribution to 10 credits, also became Security of Computer Systems).
- 1996-1998. Introduction to Safety (MSc, half of 10 credits)
- 1998-2001. Preliminary Mathematics (MSc SCSE, half contribution, 10 credits)
- 1998-2003: Critical systems (4th year, contribution to 10 credits).
- 1995-2000. Safety and Reliability 1 (MSc SCSE, developed from scratch, 10 credits)
- 1995. Compiler Construction (2nd year, using notes of previous lecturer, 10 credits).
- 1996-2000. Implementation of Programming Languages (2nd year, developed from scratch, 20 credits all lectures)
- 1996. Safety and Reliability 2 (MSc SCSE, developed from scratch, 10 credits)
- 1998-2000. Dependable Systems Analysis (MSc SCSE, developed from scratch, 10 credits)
- 1997-2000. Introduction to Software Engineering (MSc SWE, part contribution, 10 credits)
- 1998. Architectures and Device Interfaces (MSc SCSE, part contribution, 10 credits).
- 1998. Management of Safety Critical Projects (MSc SCSE, part contribution to 10 credits)
- 1999-2000. Refinement and proof (MSc SCSE, part contribution, 10 credits)

- 2002-2004. Dependability Modelling (4th year MEng, 10 credits)
- 1999-2006. Software Measurement and Testing (MSc/MEng, developed from scratch, 10 credits MSc/MEng)
- 2005-present. Topics in Privacy and Security (10 credits, since 2005, originally shared, now just me)
- 2004-present. Cryptography, Attacks and Countermeasures (3rd year, 10 credits, developed from scratch, UG 3rd year)
- 2006-present. Evolutionary Computation (MSc NC, 10 credits, developed from scratch)

Tutorials and Supervisions.. Various tutorials (1st year, 2nd year pastoral, 3rd year, 4th year. MSc NC, MSc SCSE and MSc SWE project supervisions)

2007. Project Student Mark read won SET IT student of the year.

D ADMINISTRATION AND OTHER SUPPORT

1994 – 1999. Secretary to the SCSE Industrial Advisory Board

1994 – 1999. Secretary to the SCSE Board of Examiners

2001-2006. Secretary to the Board of Examiners in Computer Science (all courses)

2006-2008. Chairman of the Board of Examiners in Computer Science (all courses)

1996-2000. European visitor for sandwich placements. (Visiting students with industrial placement year in Greece, Switzerland, and Germany).

Peer Observer of Teaching: Observer as part of teaching monitoring.

UCAS voice of the department. I have been the voice of the Department when answering student questions in plenary session for our UCAS days. (We have a team of two academics, one collating questions, one answering (me), with typically three students to provide student views.) Usually I also give the summary research talk as part of these days.

Interviewer. For all undergraduate courses. Also for MSc SCSE, MSc SWE, MSc NC.

Outreach and Wider Promotion:

- Lecturer on the Department’s “HeadStart” week-long university experience week, organised in conjunction with the Royal Academy of Engineering. (I lecture on security and cryptography.)
- 1996. Study in Britain (sponsored by the British Council) delegation to Hong Kong (one of two York delegates).
- 1998. Study in Britain (sponsored by the British Council) delegation to Hong Kong (one of two York delegates).

Previous External Examiner Roles

- 2006-2010: King’s College London (UG CS and Software Engineering courses)
- 2004-2009 Open University: Information Security Management (M886).
- 2007-2010: University of Newcastle. MSc in Security and Resilience.

Current External Examiner Roles

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- 2007- 2011: University of Sheffield (BSc/MEng CS and Software Engineering courses).
- 2010- : Imperial College (UG, MEng)
- 2010 – : Brunel (UG)