Roy Louis Crole: Curriculum Vitae @ June 9, 2025

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Education and Employment

Education	**B.A., M.A, M.Math, Ph.D.** Churchill College, University of Cambridge (1983-1991).
Appointments	**Deputy Head** (2018-2021); **Associate Professor** (2002-now); **Lecturer** (1994-2002). **SERC Open Research Fellowship**, Imperial College, London (1992-1994). **Research Associate** Imperial College (1991-1992); Cambridge (1990-1991).
Professional	*CSci* (2025 pending); *CMath* (2025); *CITP* (2024); *SFHEA* (2024); *FBCS* (2023); *FIMA* (2023); *FHEA* (2009); Member *LMS* (& Uni Rep 2023), *EMS, EATCS* (1994); *Fellow Cam Phil Soc* (1994).
Awards	*University Distinguished Teaching Fellowship* (2025). Winner *University Teaching Excellence Award* (2023). Finalist *University Student Recruitment Team Award* (2024,2022) – commendations from VC, DVC, College Pro VC. Nominations *Superstar Personal Tutor* (2023); *Superstar Lecturer* (2025,2022).

Teaching

Postgraduate	**Masters modules** *Personal and Group Skills, Game Theory, Individual MSc Projects.* **Research modules** covering *Induction and Coinduction, Object Calculi, Semantics of Programming Languages, Categories and Types and Semantics, Categories and Lambda Calculi.*
Undergraduate	**Bachelors modules** *Functional Programming, Computer Architecture, Computer Systems, Multimedia and Computer Graphics, Study Skills and Professional Practice, Functional Programming Practice, Operational Semantics, Semantics of Programming Languages, Discrete Structures, Functional Programming Theory, Modal Logic, Software Engineering Group Projects, Final Year Individual BSc Projects, LaTeX.*
Student Comments	1. An outstanding lecturer. His ability to break down complex information into easy to digest chunks while maintaining engagement throughout is on another level. 2. The organization...the pace...is perfect. 3. I found the entire module captivating. 4. ... Roy's voice articulates so clearly. Simply amazing. 5. It's difficult to improve on perfection.
Mentoring	University mentor (current), Lecturers (2003-now), Graduate Teaching Assistants (2007-2012), Demonstrators (2003-2008). My mentoring has led to promotions.
Student Support	Organiser of events such as **BAE Systems Capture the Flag**, **Student Support Workshops**, **Student Exit Meetings**. **Founder** of the *iCS* (Inspiring Computer Science) newsletter for schools; editor-in-chief (2007-2015).

Administration

Committees Working-Parties Boards	**Major Chairs:** *Apollo Board of International Studies*(2023-now), *Admissions and Recruitment Committee* (2022-2024), *University Academic Lead, Chair CMS Working Group* for the move and merger of Mathematics, and Computing (2021-2022), *University Academic Lead for Percy Gee Computer Labs Design and Delivery* (2019-2021), *Curriculum Transformation Team* (2016-2018), *Teaching Committee* (2013-2018 & 2011-2012 & 2007-2008 & 2004-2006), *Module Review Meetings* (2013-2018 & 2011-2012 & 2007-2008 & 1997-2006), *Computer Science Curriculum Committee* (1997-2003). Active member of School and University committees, and working groups, including exam processes, staff-student relations, marketing, recruitment, teaching quality, business continuity, programme approval, appraisals, College Learning and Teaching, and multiple other working groups.
Teaching and Learning	**Apollo International Partnerships Academic Lead** (2023-now). **Director of Admissions and Recruitment** (2020-2024). **Director of Education** (2013-2018 & 2011-2012 & 2007-2008 & 2004-2006 & 1997-2003). **Curriculum Transformation Lead** (2016-2018). Total re-design and substantial up-date of all undergraduate programmes, and a transformation from 10 and 20 credit modules to 15 credit modules. **Curriculum Review** (2007-2008) Computer Science module and programme modernisation. Contributed to creation of brand new B.Sc. Computing degree and Computing with Management degree (Europe and Industry), and MComp Computer Science. I have held previous positions of **Admissions Coordinator**, **Director of Part Time Teaching**, **Foundation Year Tutor**, **University Programme Coordinator** for BSc Computer Science, **Joint Chair** for *Computer Science Departmental Examination Board*, **Acting Director** for BSc Computer Science with Management, **Engineering Inter-Departmental Liaison Officer**.

I have been a **coLead of Development Team** of award winning *Entrepreneurial Student Projects*, **Member** of *University Teaching and Learning Forum*, **Contributor** to the Computer Science Industrial Advisory Board, and a **Member of Education Excellence**.

BCS

BCS National Accreditation Assessor (2024-now).

Lead for accreditation visits and **Author** of the BCS *Course Accreditation Reports* (1999, 2003, 2008 and 2013). **Senior Advisor of Accreditation Process** (2018, 2023).

Departmental Professional Accreditation Officer (1998-2018). **Department of Engineering DABCE Accreditation** representative (1999-2004).

Examining

External Examiner University of Oxford, Part C Integrated Masters in Computer Science, (2018-2021). Ph.D. examining (1999-now; e.g. Nottingham 2025).

QAA

Departmental QAA Officer (1998-2018). **Departmental Audit (Academic Review) Author**, and **Departmental representative** at the *University Audit Panel* (2003, 2010). **Checker** for Review Documentation (2019). **TEF Pilot Lead**. Leicester is now Gold.

External Reviewer for University of Birmingham's *Quality Assurance review of The School of Computer Science* (2009), **External Programme Reviewer** for *Information Technology, Newnham College* (2005).

Lead on the Computer Science teaching, learning and administrative preparations for the *QAA Developmental Engagement* in May 2003, including preparation of the documentation (1998-2003).

Participation in national meetings concerning *Computing Benchmarking Standards*, *Subject Review*, *Developmental Engagements*, *Microsoft Academic Alliance*.

Research

Conferences & Organisation

Director (2014-2018) of the *Midlands Graduate School in the Foundations of Computing Science*. **Organiser** Leicester (2024, 2017, 2009, 2006). Recurring MGS lecturer. **coFounder** (1999).

Speaker at major International Conferences. **Chair or member of the organizing/programme/steering committee** of national and international meetings (1989-now).

Invited Researcher/Lecturer/Addresses *Jiangxi Normal University, Nanchang, China* (2009); *International Summer School and Workshop on Foundations of Security*, Oregon, USA (2003); *MathfIT International Summer School on Generic Programming*, Oxford, United Kingdom (2002); *BRICS International Summer School on Logical Foundations*, Aarhus, Denmark (2001); *Annual General Meeting of the British Computer Society FACS group*, London (1996).

Lead of the MERLIN EPSRC funded workshops (2001-2005).

Member of the *UK Computer Science Research Strategy Group*, (1996-1998).

Refereeing

Review Editor for Frontiers in Computer Science and Mathematical Reviews (2022-now).

Advisory Editor for Springer Undergraduate Topics in Computer Science (2023-now).

Refereeing ranging over twenty very high quality International Journals, the *Engineering and Physical Sciences Research Council*, and the *Council of Physical Sciences of the Netherlands Organization for Scientific Research (*NWO*)*.

External Examiner of M.Sc. and Ph.D. theses.

Funding

Commercial Sponsorship of MGS, approx £11,000 *MGS Collaboration* (2020-2025).

Nuffield Undergraduate Research Bursary, £1,440 (2009,2011).

EPSRC RM Grant, MGS Funding, approx £15,000 (2004-2007).

EPSRC RM Grant, PI GR/M98555/01, £151,724 (2000-2003).

APPSEM II, 5th Framework Program of the EU, £250,000, (2003-2006).

SERC Open Research Fellowship, £42,000, Imperial College (1992-1994).

External Travel Grants and Research Bursaries and Workshops, approx £20,000, (2003-date).

Supervision

Three Ph.D. students, six co-supervised Ph.D. students, two UG Nuffield Bursary students.

Publications

I have published papers in *high quality* International Journals, Conferences, Summer Schools, and edited Proceedings. This includes **Categories for Types**, a postgraduate-level monograph of 335 pages published by CUP, in use over almost 3 decades. Used by Cambridge, Edinburgh and Oxford courses, and in 2022 for a Cornell, USA Credit bearing Masters course. I am currently writing a new book **Semantic Computer Architecture**, accepted for future publication by CUP.