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A skilled primary practitioner, experienced IT developer, well-regarded teacher trainer with research expertise who is passionate about providing all educators with the professional development they need to ensure every young learner enjoys and excels at computing.

Employment History

2018 - : Teaching Fellow, Public Engagement, Outreach and Teacher CPD Coordinator Project at Queen Mary University of London

Responsibilities: Co-ordinating and delivering Queen Mary University of London teacher training and community events as part of Mayor of London, Institute of Coding and other funded programmes. Organising, devising and delivering events and CPD for teachers. Teaching computer science undergraduates who are on school experience placements.

Achievements: Delivery of the TechPathways Industry course and networks course.

2015- : Educational Consultant

Responsibilities: Providing consultancy for teacher professional development and resource creation. Writing pedagogy guidance reports, outlining and reviewing primary teacher professional development courses and resource development.

Achievements: Supporting authors and reviewing outputs, on pedagogy and content for the National Centre for Computing Education face to face and online primary courses and resources. Providing guidance and quality assurance on Barefoot professional development and content resources, such as the new research informed programming teacher training course.

2015 - 2018 - : Project Manager, CAS London, King's College London & Queen Mary University of London

Responsibilities: Co-ordinating Computing At School (CAS) work in London. Organising, devising and delivering events and CPD for teachers. Recruiting, mentoring and training master teachers. Facilitating the networking of industry, training groups, Universities & school teams.

Achievements: We delivered all key performance indicators, including teacher and school reach and master teacher recruitment, well above target. Additionally, our conferences, network events and training courses consistently sold out with excellent feedback. I also developed and delivered four cohorts of the very popular Diving Deep into Primary Programming course. I successfully engaged a wide range of stakeholders and established collaborative partnerships with groups such as Code Club, the Royal Academy of Engineering, the Ark Academy chain and Islington Education team.

2014 – 2015: Computing CPD author, Barefoot Project, BCS & BT (DfE Funded)

Responsibilities: Design and write computational thinking and computer science concept resources and

classroom activities for primary teachers. Develop and deliver CPD training material.

Achievements: Worked with academics to develop agreed primary teacher definitions of concepts. Crafted easy to teach fun activities such as the most popular resource, Crazy Characters to demystify the new curriculum. The resources we created and training materials we developed have now supported more than 50,000 teachers & reached 1.5 million UK school pupils.

2005 -2015: Primary Teacher & Computing Subject Lead, Brighton & Hove

I planned and taught lessons to primary pupils from a range of age groups; my teaching was consistently evaluated as 'Outstanding' and my pupils consistently met or exceeded their targets.

1990-2005: Various IT roles, Lloyds TSB, St Lucia Air & Sea Port Authority (VSO), Unilever

Developed systems on time on budget through a range of roles including data architect, project leader, analyst and programmer for business areas such as money laundering, collections, port management & warehousing.

1982- 1986: VAT Inspector HM Customs & Excise

Inspected businesses for compliance with tax regulations, specialising in auditing IT accounting systems.

Publications & Contract Work Highlights

- Member of 2013 DfE ITT Primary computing expert panel, member of CAS Assessment Working Group, member of Barefoot Content Board, member of BCS Content and Curriculum Board.

- Authored the `Pedagogy in Teaching Computer Science in Schools Literature Review' for the highly influential 2017 Royal Society report on Computing in Schools. In a short time-frame, I synthesised a wide range of studies into an accessible summary for educators & policymakers.

- Authored `Abstraction in Action: K-5 teachers' uses of levels of abstraction, particularly the design level, in teaching programming' 2018 journal article (submitted), 2016, 2017 papers.

- Worked on Micro-bit & PRIMM research (published conference, journal papers); selected for Doctoral Consortium on Computational Thinking; member of Constructionist Approaches and Computational Thinking Working Group and co-authored published paper Integrating Constructionist Learning Theory with Computational Thinking Classroom Activities.

- Development and delivery of the BCS certificate in computer science education Scratch course, an online teacher professional development infused with pedagogy and research.

- Devised and delivered the unique 2018 `ProtoEngineer' course for Hertfordshire STEM group, which included theory, hands-on explorative activities, mentoring, & team teaching as well as combining pedagogies and curricula for physical computing, D&T and science.

- Created the innovative 2018 Cambridge International Primary Programming progression map by amalgamating learning trajectories from emerging curricula and worldwide research.

- Developed and delivered initial teacher training computing course for School Direct trainees.

🔸 Authored book chapters on Abstraction in [Teaching Computing Unplugged](#) and on Design in Springer International Encyclopaedia of Computing (awaiting publication); innumerable [cs4fn](#) articles and [articles in issues 2-6 of Hello World](#) and resources for Cambridge International.

🔸 Co-authored a book chapter on [Computational Thinking](#) in the 2019 Handbook of Computing Education Research with Prof Paul Curzon and Prof Tim Bell; co-authored [Computing in the classroom](#) with Dr Sue Sentence; [Science and coding mini scheme resources](#) with Dr Jon Chippindall.

🔸 I regularly present at national and regional conferences and deliver training across England.

Education & Accreditations

2015 –	PhD in Computer Science Education at Queen Mary University of London (in progress)
Sept 2017	Chartered IT Professional with the BCS (The Chartered Institute of IT)
2014 - 2015	BCS Certificate in Teaching of Primary Computer Science
2005 - 2007	PGCE in Primary Education from Brighton University (part-time)
1986 - 1989	BSc (Hons) 1st Class in Data Processing from Leeds University
1984 - 1986	HND (Distinction) in Computer Science from Leeds Polytechnic
1980 - 1982	'A' levels in Mathematics, Physics, Geography and General Studies

Hobbies & Interests

Over the last 15 years, I have enjoyed applying makeup, tying ballet shoes, finding missing costumes and ushering gangs of girls on stage at dance competitions across the country - my daughter won Gold at the 2017 Dance World Cup. I loved every minute of it. Now that she is studying in Chicago I have put my emergency sequin sewing kit away and have time for the things I relish doing yoga, the garden, films, the Brighton music, drama and art scene and a 'not' book club.