

Professional Profile

My experience in forensic casework spans over a 20-year period which started at Lothian & Borders Police laboratory (Scotland) and largely continued with the UK Forensic Science Service (FSS Ltd), UK where I was employed as a Forensic Specialist within the Homicide division and was Blood/BPA Quality Lead in London. As part of the UK government's closure of the FSS I transferred to the Specialist Forensics Division of the Metropolitan Police Service I joined ArroGen Forensics Ltd in 2012 as a senior scientist and led the biology team in delivering a wide portfolio of case review and most recently was Lead Forensic Scientist and Scientific Director of ArroGen Veterinary Forensics, which I set up as a joint venture with the University of Surrey delivering animal forensics. I now work independently as a Forensic Consultant within my own company.

Over the years, I have been involved in the multi-disciplinary forensic investigation of hundreds of major and critical incidents, predominantly as lead scientist in complex and/or sensitive investigations or cold case review, and have reported all aspects of forensic biology including scene examination, blood pattern analysis (BPA), luminol application and DNA interpretation. I have collaborated with a wide range of practitioners across the criminal justice system and have given expert scientific evidence, including in many high-profile forensic investigations, in courts across England, Scotland and Northern Ireland for the prosecution and defence and abroad. I have received commendations and letters of appreciation from North Yorkshire Police, the Metropolitan Police Service Operational Command Unit, CPS and judiciary which demonstrate my commitment to delivering excellence.

My specialism and strength is in Blood Pattern Analysis (BPA), a field in which I have developed an expanding expertise since my formative training with Metro Dade Police, Miami in 1998. I was a key member of the FSS's training team and had a key role in the design, development and delivery of the FSS's core BPA training program and a variety of national and international bespoke training courses which I continue to deliver, to a broad spectrum of practitioners. I held a national position within the FSS Quality Group and had responsibility for audit and competency monitoring. I am recognised within the profession as a leading BPA scientist and am regularly invited to contribute scientifically to various forums including the Scientific Working Group of Bloodstain Pattern Analysis (SWGSTAIN), now OSAC, and the Chartered Society of the Forensic Sciences, of which I am a professional member. I am a member of the Advisory Panel to Inside Justice.

I am a visiting lecturer at several UK universities, including Kings College London and Academy of Forensic Medical Sciences on undergraduate and postgraduate programs and hold the honorary positions of Visiting Fellow at Bournemouth University and Visiting Senior Fellow at the University of Surrey. I have an active research interest and have developed a blood substitute for use in forensic teaching and supervise Masters and PhD level research, which have led to publication.

Academic Qualifications

2002 - 2003 Postgraduate Certificate in Teaching and Learning

London Metropolitan University, UK

1994 - 1995 MSc Forensic Science

University of Strathclyde, Scotland

Research: *Validation and Implementation of 3 STR loci, CSF1PO, TPOX, TH01, for Forensic Analyses* - undertaken during an internship with Miami-Dade Police Department Crime Laboratory, USA

1991 - 1994 BSc (Hons) Biological Sciences/USA [First Class]

Lancaster University, UK [Second year at Oregon State University, USA]

Forensic Science Career

I am an experienced forensic scientist with extensive experience in forensic casework. I now provide independent consultancy and training services in forensic science.

Scientific expertise/competencies

- Evaluation of scientific evidence
- Body fluid analysis & interpretation, including transfer & persistence
- DNA interpretation, including NGM, specialist techniques & statistics
- Blood Pattern Analysis (BPA), including interpretation of bloodstain distribution evidence and expectations of blood transfer
- Scene examination, including luminol application
- Laboratory examination of items in a DNA-controlled environment
- Case review, including cold case, sexual offences & major/critical incidents
- Expert witness [UK/international experience]
- Major & critical incident investigation
- Scientific advisor

Training/advisory

- Quality management and accreditation
- BPA training [Awareness, Intermediate (40-hour IABPA), Advanced and bespoke courses]
- Customer-focused knowledge transfer and CPD
- Forensic Regulator (Home Office Advisory Group): BPA Appendix
- Research/media

Key Publications

- Crime Scene to Court: The Essentials of Forensic Science: Edition 4. 2017. Editor: Peter C White. [Author, chapter 7, Bloodstain Pattern Analysis.
- J. Millington. Forensic Science: A Reality Check. Expert Witness. March 2017.
- J. Millington. Blood Pattern Analysis: Is it worth the paper it's spattered on? The Barrister Magazine. Nov. 2015.
- H. F. Miles, R. M. Morgan, J. E. Millington. 2014. The influence of fabric surface characteristics on satellite bloodstain morphology. Science and Justice (Online: 13 May 2014)
- J. Millington. Rationing Forensic Science. The Barrister Magazine. June 2014.
- L. Heathfield, J. Millington. DNA-controlled forensic examinations: strategy, management and implementation. (Poster, 2014).

2018- Consultant Forensic Scientist

Millington Hingley Ltd

2017 Scientific Director / Lead Forensic Scientist

2012 - 2017 Senior Forensic Scientist

ArroGen Forensics Ltd/Arrogen Veterinary Forensics, Unit 11-12, The Quadrangle, Grove Technology Park, Wantage, Oxfordshire, OX12 9FA

- Lead scientist within an independent multi-disciplinary team providing advanced scientific services, largely but not exclusively to the defence.

2011 - 2012 Forensic Scientist

Specialist Forensic Services, Metropolitan Police Service, 109 Lambeth Road, London, SE1 7LP

- TUPE transfer (Nov-2011) under the Government's planned closure of the Forensic Science Service

2003 - 2011 Forensic Specialist

Forensic Science Service (FSS) Ltd, Homicide and Violent Crime Department, 109 Lambeth Road, London, SE1 7LP

- Senior member of the Violent and Homicide team involved in the forensic investigation of hundreds of major and critical incidents, predominantly complex, multi-disciplinary and/or sensitive investigations or cold case review, largely as lead scientist. Key member of the FSS national and international training team and promoted to a national position within the quality team. The key responsibilities of this position were:
 - i. Senior scientific reporter: laboratory and crime-scene
 - ii. Quality and management advisor
 - iii. Training

2002 - 2003 Senior Lecturer in Forensic Science

Department of Health & Human Sciences, Faculty of Life Sciences, London Metropolitan University

- Responsible for the development, delivery and evaluation of the BSc Forensic and Bioanalytical Sciences and MSc Forensic Science programmes and a wide range of undergraduate biology and chemistry modules
- Designed Crime Scene Room for £4 million University Science Building project

Research publications

- Learning and Teaching Support Network (LTSN) - Physical Sciences Research Grant
 Millington, J. 2002. *Development of a synthetic blood substitute for use in Forensic Science Teaching*. Higher Education Academy Report:
http://www.heacademy.ac.uk/assets/ps/documents/projects/completed/development_of_synthetic_blood_substitute.pdf

1996 - 2002 Forensic Biologist

2003 Forensic Consultant

Lothian and Borders Police, Forensic Science Laboratory, Edinburgh, Scotland

- Expert witness and Scientific reporter: laboratory and crime-scene (authorised by the Secretary of State for Scotland)

Key Achievements & Contributions / Honorary Positions

2017 - Senior Visiting Fellow

Faculty of Health and Medical Sciences, University of Surrey, UK

2015 - Advisory Panel: Inside Justice Investigative Unit

Expert panel member

2014 - Visiting Fellow: Forensic Science

Faculty of Science and Technology, Bournemouth University, UK

2012 - Visiting Lecturer: Diploma and MSc Forensic Medical Sciences

Academy of Forensic Medical Sciences, Charterhouse Street, London, UK

2011 - Visiting Lecturer: BSc Forensic Science

Forensic and Biological Sciences Group, School of Applied Sciences, Bournemouth University, UK

2009 - Visiting Lecturer and Research Supervisor: MSc Forensic Science

Department of Forensic Science & Drug Monitoring, School of Biomedical Sciences, Kings College London, UK

Recent Invited Contributions

2017 Surrey University: Wildlife Forensics

Surrey Veterinary School, UK

2017 CrimeLive Event – Inside Justice

Cardiff & Manchester, UK

2017 Expert Witness Institute Conference

London, UK

2017	Inside Justice Conference on Imprisonment and Forensic Science Essex University, Colchester, UK
2016 & 2017	ArroGen Seminar CPD Program: If it bleeds, it leads Gordon Museum, Guy's Hospital, London, UK
2016	Forensic Science and Policy – how do we bridge the gap? UCL Centre for the Forensic Sciences, London, UK
2016	Surrey University: Forensic Pathology - from CSI to Court Surrey Veterinary School, UK
2015	Case Presentation: Operation Helix IABPA Annual Training Conference – Salt Lake City, USA
2014	British Academy of Forensic Sciences: If it bleeds, it leads Gordon Museum, Guy's Hospital, London, UK

Key BPA Training Courses delivered to multi-agency practitioners

2017	BPA Awareness Training	Police: South West Collaboration
	BPA Training for Universities course	London South Bank University / KCL, UK
	Intermediate BPA Training (40-hour IABPA Course)	Gendarme and Police Forensic Training Facility, Turkey
	BPA Training for Universities course	Bournemouth University, UK
2016	Intermediate BPA Training (40-hour IABPA course)	Thames Valley Police Training College, UK
	Advanced BPA Training	Thames Valley Police Training College, UK
	BPA Training for Universities course	Kings College London, UK
	BPA Training for Universities course	South Bank University, UK
	BPA Training for Universities course	Bournemouth University, UK
2015	Intermediate BPA Training (40-hour IABPA course)	Thames Valley Police Training College, UK
	Seminar: Simulated projected blood (arterial pump)	IABPA Conference, Salt Lake City, UK
2013	Intermediate BPA Training (40-hour IABPA course)	Abu Dhabi Police (Crime Scene Training Facility), UAE
	Intermediate BPA Training (40-hour IABPA course)	Garda Police, Dublin, Ireland
2012	Seminar: Simulated projected blood (arterial pump)	IABPA Conference, Edinburgh, UK
2010	BPA Forum: Gunshot generated spatter	FSS, UK
	BPA training course (2 week) (40-hour IABPA course)	Abu Dhabi Police (Crime Scene Training Facility), UAE
2009	BPA at scenes training [Advanced]	NPIA, UK
	BPA: Expert witness training	FSS, UK
2008	BPA training: Sexual offence scientists	FSS, UK
	BPA: Statement writing & CAI	FSS, UK
	BPA for Examiners	FSS, UK
	Source to activity level BPA training for ROs	NPIA, UK
2007	BPA awareness training	Singapore Police Scientists, UK
2006	BPA at scenes training [Advanced]	FSS, UK
2005	Lab-based BPA: Clothing and weapons training (40h)	FSS, UK
	BPA awareness training	Algerian Police Forensics, UK
2004	VCSA course: Centrex	FSS, UK
	BPA awareness training	Nederlands Forensisch Instituut, UK
2003	BPA training course (1 week)	Lithuanian Police Laboratory, Vilnius, Lithuania
	Crime Scene Managers course	Centrex, Durham, UK
	BPA awareness training	British Transport Police, UK
	BPA awareness training: SEQ	Police Training College, Hendon, UK