

CV Shelina Jelani

Qualifications:

2011 - 2012 : MSc. Forensic and Medical Science (with Distinction) University of Bradford.

Thesis title: Method Development of Active Compounds in Alcohol Solution and Alcoholic Beverages: The Analysis via Raman Spectroscopy. This project focused on the detection limits associated with the analysis of Gamma Hydroxybutyric Acid (GHB), Gamma Butyrolactone (GBL) and Thujone in alcohol solution and alcoholic beverages. The characterisation of GHB and GBL in alcohol solutions mimicking spiked beverages was carried out by Vibrational Spectroscopy (bench top and portable Raman spectrometers). Alpha Thujone is the toxic agent of Absinthe; it was studied to explore the Limit of Detection (LOD) associated with α Thujone in Ethanol solution.

2008 - 2011 : BSc. (Hons.) Forensic and Medical Science (Upper Second)

Dissertation title: Fundamentals of Forensic Body Fluid Analysis: A Comparative Review into the Techniques Employed for Semen and Vaginal fluid analysis.

This dissertation was a comparative literature review with a purpose to analyse Acid Phosphatase, Prostate Specific Antigen, Lumatec Superlight 400, Estradiol and Real Time Polymerase Chain Reaction (RT-PCR) methods in accordance to seminal fluid and vaginal fluid analysis.

The research papers primary author was Dr Tasnim Munshi, who at the time was my Masters degree research supervisor. The paper was compiled and published after completion of my degree and was a collaborative document in which part of my input identified the use of the Raman Spectrometer for the purpose of data analysis.

Publications:

As part of my Masters I published a research paper on the Online Wiley Library. In this study, a portable Raman spectrometer was used to examine the inter-conversion of GHB and GBL in water and ethanol solutions as a function of pH, time, and temperature.

I have two pending publications in craniofacial anthropometry and ethnic classification. Moreover, I have written a chapter in facial image analysis, which is also pending publication early 2017

Professional Development:

2015 to 2019 (ongoing): PhD. Facial Recognition & Ethnicity Classification, University of Bradford
In order to continue my professional development I am currently undertaking my PhD study sponsored by Acume Forensic. My research aims to present a statistical dataset to assist experts within this field to quantify features common within racial groups, particularly the British Pakistani. I am not aware of any published literature which mentions the best practice / methodology for facial mapping analysis. Moreover, there is no database or dataset an expert can refer to, which would allow the expert to comment on common and sporadic features.

Conference:

Speaker - *Forensic Middle East Congress*, Dubai, April 2014.

Speaker - *Digital Forensic Workshop*, York, October 2014, speaker

Speaker - *Chartered Society of Forensic Science conference 'New Ways of Harnessing Images for Law Enforcement and National Security'*, October, Oxford 2016.

Forensic Science & Beyond – The Professional Response, Birmingham November, 2016.

Experience:

2012 to present date – Senior Technical Officer – Acume Forensic

On starting my employment with the company I was engaged in the area of Facial Mapping and Imagery Analysis. I was mentored and coached by Mr. Stephen Driver a facial comparison expert and forensic artist with over 42 years experience conducting facial comparisons and compiling

facial composites and artistic reconstructions. Mr. Driver oversaw my development with regular competency tests from material he had gathered from his years of experience. I was initially allowed to observe then assist on cases by preparing material and then by reviewing his work and then preparing reports under his guidance. In mid 2014 I was deemed competent by the company to conduct analysis independently.

During this period I also worked with Mr. Stephen Cole a director of Acume Forensic and an accepted Image Analysis expert with 18 years experience with West Yorkshire Police and for the last 12 years with Acume Forensic. He has worked internationally on image comparison cases and high profile cases within the UK including police officer murders. Mr. Cole took a more hands on approach to my development and introduced me to clothing comparison work and how to identify key frames from CCTV footage and interpretation of the image itself. By working in conjunction with Mr. Driver both men oversaw my professional development before agreeing I was competent in the field of facial mapping in mid 2014.

Since 2014 I have independently produced over 100 facial mapping reports. Attached is a summary of case work that I have independently completed. I have only listed cases that I have personally prepared and given evidence in at Crown Court, where my testimony has been subjected to cross examination and has been accepted as expert evidence, and the second list casework that has progressed to trial but a Guilty plea entered.

My expertise in this field has developed due to combination of continuing academic study, mentoring and competency testing. I now have substantial experience in the preparation of facial mapping analysis and subsequent court-room cross examination of my evidence from both.

Evidence given:

12-08-2014	R v Brown
03-09-2014	R v Brown (retrial defendants split)
16-09-2014	R v Bobat
25-11-2014	R v Tahir Seikh
24-03-2015	R v Leigham Campbell
10-06-2015	R v Martin Cavanagh
10-06-2015	R v Barrington Lawrence
16-06-2015	R v Tohseef Farooq Shah & Yasir Hussain Jabbar
04-09-2015	R v Brian Jaffrey
04-09-2015	R v Barrington Lawrence (retrial)
17-11-2015	R v Gordon Veitch
11-01-2016	R v Younis Yaqub
03-02-2016	R v Abdul Hossini
24-05-2016	R v Downey & Amis
24-05-2016	R v Barker & Smith (PG at trial)
27-05-2016	R v Kane Walker
18-07-2016	R v Kane Walker (retrial)
11-07-2016	R v Conolley & Dillian
09-08-2016	Child images - Selkirk Sheriffs Ct
10-10-2016	R v David Brown (retrial medical issues with previous plea)
11-01-2017	Op Red Rose
09-08-2016	Child images - Selkirk Sheriffs Ct

Plea entered:

Operation Kampo.
R v Whitton.
Op Liberty.
Ladbroke Robbery.

R v Moyles.
Operation Adventure.
R v Begley.
R v Sykes.
Operation Detroit.
Operation Engine.

Relevant Published Literature:

Although there are a large number of publications that refer to facial recognition as an automated method. there are only a very small number that refer to the techniques that I employ (morphological analysis in facial mapping) when conducting analysis or that would affect the results in this case. Supplied below are selection of papers which are broadly related to the topic of facial mapping analysis.

'Are facial analysis experts any better than the general public'

Caroline Wilson, Raymond Evans
Science and Justice 49 (2009) 191-196

'Matching unfamiliar faces from poor quality closed-circuit television (CCTV) footage'

Won-Joon Lee, Caroline Wilkinson, AminaMemon, Kate Houston.
Axis Vol. 1, Issue 1 (Summer 2009)

'Unfamiliar faces are not faces: Evidence from a matching task'. Ahmed M Megreya and A. Mike Burton, *University of Glasgow, Scotland. Memory and Cognition (2006) 34, (4) 865-87*

Professional Affiliations:

Professional member of the Chartered Society of Forensic Science
Worldwide Association of Women Forensic Experts
International Association of Craniofacial Identification
Forensic Image Analysis Group (FIAG) membership pending