

Edinburgh, Scotland

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I am a genetiicist specilised in population genetics and genomic laboratory practices. I have recently completed my PhD studies in Forensic Science at Staffordshire University and I am due to graduate in July 2023. My research investigated the feasibility of acquiring DNA profiles from counterfeit currency. My previous and current degrees have provided me with significant experience in using equipment specific to DNA analysis including thermal cyclers and genetic analysers alongside various techniques in DNA extraction and genetic sample evaluation. I am experienced in adopting objective analytical approaches to examinations and experimental design.

Education

PhD in Forensic Science: Evaluating the Viability of Obtaining DNA Profiles from DNA **Encapsulated Within the Layers of Counterfeit Banknotes**

STAFFORDSHIRE UNIVERSITY 2019 -> 2022

- Research Chapter 1: Evaluation of DNA in Counterfeit Banknotes.
- Research Chapter 2: Simulated Procedural Study to Evaluate the Presence of DNA in Composite Counterfeit Banknotes.
- Research Chapter 3: Genetic Evaluation of Counterfeit Banknotes.
- Skills Areas: DNA extraction, qPCR, DNA profiling, population genetics.

Msc First Class in Forensic Science

University of Strathclyde 2017 -> 2018

- · Skill Areas: crime scene analysis, handling of evidence, court procedure, application of chemical and biological based testing of evidence and genetic approaches of DNA evidence.
- · Courses Taken: practical crime scene and court exercise, forensic biology, essentials of forensic science (theory and practical) and practical examinations.

Msc in Genetics

University of Aberdeen 2016 -> 2017

- · Skill Areas:
- · Courses Taken: bioinformatics, introductory immunology, genome-enabled medicine, mendelian genetics, applied statistics, and immuno-

BSc (Hons) Upper Second Class in Zoology

University of Aberdeen 2012 -> 2016

- · Skill Areas:.
- · Courses Taken: molecular ecology and evolution, ecological and environmental modelling, conservation in practice, wildlife conservation and management.

Employment _____

Sales Assistant Edinburgh, Scotland

THE WORKS May 2016 -> September 2016

Position focussed on customer service and relations

Volunteer Chengdu, China

CHENGDU PANDA BREEDING RESEARCH BASE

31 June 2015 -> 14 July 2015

• Husbandry and care for pandas as part of a conservation project.

Volunteer Edinburgh, Scotland

8 April 2012 -> 14 April 2012

· Assisted in the construction of a 'roundhouse'.

Volunteer Edinburgh, Scotland

OXFAM RECORD STORE August 2012 -> July 2016

· Sales assistant.

NATIONAL TRUST

Skillset

Ross Kwok · CV APRIL 2023

Computer software

WORD, EXCEL, AND RELATED MICROSOFT SOFTWARE

Statistical software

MINITAB AND SPSS

Programming Languages

R, GIT AND MARKDOWN

Genomic software

MrBayes, DNAsp, FinchTV, CLC, Figtree, Arlequin, ClustalX, Proseq, BLAST, Funcassociate, MultiArray Viewer, GeneMapper

Laboratory skills

POLYMERASE CHAIN REACTION TECHNIQUES (QPCR), DNA/RNA EXTRACTION (PHENOL CHLOROFORM, CHELEX RESIN, SILICA SPIN COLUMNS AND MAGNETIC BEAD EXTRACTIONS), GEL ELECTROPHORESIS, AGAROSE GEL DIGESTION, CAPILLARY ELECTROPHORESIS, PCR THERMOCYCLERS (BOTH FOR STANDARD PCR AND QPCR), FUME HOODS, GEL ELECTROPHORESIS EQUIPMENT, HEAT BLOCKS, QUBIT FLUOROMETER AND NANODROPS

Forensic skills

GRIM, MSP, PLM, TLC, FINGERPRINT ANALYSIS, DNA PROFILING, BLOOD SPATTER AND PRESUMPTIVE AND CONFIRMATIVE BODY FLUID TESTING

Langauges

ENGLISH (FLUENT), CANTONESE (BASIC)

Conferences

Guest speaker

TITLE: An Evaluation of Two Adhesive Media for the Recovery of DNA from Latent Finger-marks: A Preliminary Study

Guest speaker

TITLE: EVALUATING THE VIABILITY OF OBTAINING DNA PROFILES FROM DNA ENCAPSULATED WITHIN THE LAYERS OF COUNTERFEIT BANKNOTES

Poster Presenter

TITLE: EVALUATING THE VIABILITY OF OBTAINING DNA PROFILES FROM DNA ENCAPSULATED WITHIN THE LAYERS OF COUNTERFEIT BANKNOTES

The Centre for Crime, Justice and Security, University of Staffordshire

2022

The Centre for Crime, Justice and Security, University of Staffordshire

2022

The 28th International Congress of the International Society of Forensic Genetics, Prague

2019

Publications

Evaluating the viability of obtaining DNA profiles from DNA encapsulated between the layers of composite counterfeit banknotes.

KWOK, R., KENNY, D. AND WILLIAMS, G.A.

https://doi.org/10.1016/j.fsigss.2019.10.043

An evaluation of two adhesive media for the recovery of DNA from latent fingermarks: A preliminary study.

Kwok, R., Parsons, R., Fieldhouse, S. and Walton-Williams, L.

https://doi.org/10.1016/j.forsciint.2023.111574

Forensics Science International: Genetics Supplement Series, 7, pp. 438-440

2019

Forensic Science International, [online] 344(4), 111574

2023

Memberships

Chartered Society of Forensic Science

International Society of Forensic Genetics