David Thompson

**Date of Birth:** 1st December 1980

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# Education

**2014-2015 – KEELE UNIVERSITY Teaching and Learning in Higher Education Programme 2007-2012 – KEELE UNIVERSITY Doctor of Philosophy in Chemistry**

**2004-2007 – KEELE UNIVERSITY BSc Chemistry and Forensic Science (Hons) 1st Class**

**1992-1997 – EASTWOOD COMPREHENSIVE SCHOOL 9 GCSE’s A\*-C including Maths, Science and English**

**Employment**

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| **May 2018- Present** | **Senior Lecturer in Forensic and Analytical****Chemistry** | **Keele University** |
| **Sept 2015 – July 2019** | **Forensic Science Programme Director** | **Keele University** |
| **Aug 2012 – May 2018** | **Lecturer in Forensic and Analytical Chemistry** | **Keele University** |

**Research/Equipment Grants**

**Keele Innovation fund – (2017):** Hacking Plastic – Evaluation of the publics’ perception of plastic in society (£5K) – In collabration with Dr Deirdre McKay, Dr Sharon George, Dr Simon George and Dr Eva Giraud

**Analytical Trust Fund – (2016):** Evaluation of the effect of surface modification to the analytical performance of 3D printed spray chambers for Inductively Coupled Plasma based instrumentation (£1.4K)

**Royal society of Chemistry – (2016):** Evaluation into the effect of different size cyclonic spray chambers for Inductively Coupled Plasma instrumentation produced using 3D printing technology (£1.6K)

**ThermoFisher Scientific TSQ Vantage Tandem mass spectrometer – (2015):** Equipment donation to the research group from ThermoFisher Scientific (value at the time of donation ~£60K)

**BBSRC iCASE Studentship – (2014):** No place to hide – The use of metabonomic profiling to uncover complex food fraud. 4 year studentship (~£98K)

# Current Research Projects

2020-2022 – MPhil – **The development of biodegradable hydrophobic coatings for the paper industry**

– Student: Mr Adam Bastow, Lead supervisor: Dr David F. Thompson

2020-2028 – PhD – **Developing metabonomic methods and protocols for the monitoring of animal health in dairy herds** – Student: Miss Cheryl Lawson, Lead supervisor: Dr David F. Thompson

2018-2022 – PhD – **Investigating the use of metabonomic profiling and chemometric approaches to clinical applications** – Student: Miss Megan Scott, Lead supervisor: Dr David F. Thompson

# Previous Research Projects

2015-2019 – PhD – **Investigating the use of metabonomic profiling for the detection of food fraud in poultry produce** – Student: Miss Amy Johnson, Lead supervisor: Dr David F. Thompson

2014-2018 – PhD – **Investigating the use of metabonomic profiling for the differentiation of Halal/Kosher foodstuffs from their non-approved counterparts** – Student: Miss Kate Sidwick, Lead supervisor: Dr David F. Thompson

# Recent Publications

Arab K.A.H, Thompson D.F, Oliver I.W, **Trialling water-treatment residuals in the remediation of former mine site soils: Investigating improvements achieved for plants, earth worms and soil solution.** *Environ Toxicol Chem*, 2020, 36(6)

Johnson A.E, Sidwick K.L, Pirgozliev V.R, Edge A, Thompson D.F, **The effect of storage temperature on the metabolic profiles derived from chicken eggs.** *Food Control*, 2020, 109

Johnson A.E, Sidwick K.L, Pirgozliev V.R, Edge A, Thompson D.F, **The use of metabonomics to uncover differences between the small molecule profiles of eggs from cage and barn housing systems.** *Food Control*, 2019, 100

Adesina-Georgiadis K.N, Gray N, Plumb R.S, Thompson D.F, Holmes E, Nicholson J.K, Wilson I.D, **The metabolic fate and effects of 2-Bromophenol in male Sprague-Dawley rats**. *Xenobiotica*, 2019, DOI: 10.1080/00498254.2018.1559376

A.E. Johnson, K.L. Sidwick, V.R. Pirgozliev, A. Edge and D.F. Thompson, **Metabonomic Profiling of Chicken Eggs during Storage Using High-Performance Liquid Chromatography – Quadrupole Time- of-Flight Mass Spectrometry,** *Anal. Chem*., 2018, 90, 7494

K.L. Sidwick, A.E. Johnson, C.D. Adam, L. Pereira and D.F. Thompson, **Use of Liquid Chromatography Quadrupole Time-of-Flight Mass Spectrometry and Metabonomic Profiling to Differentiate between Normally Slaughtered and Dead on Arrival Poultry Meat,** *Anal. Chem*., 2017, 89, 12131

L. Mendecki, X. Chen, N. Callan, D.F. Thompson, B. Schazmann, S. Granados-Focil, and A Radu, **Simple, Robust, and Plasticizer-Free Iodide-Selective Sensor Based on Copolymerized Triazole-Based Ionic Liquid,** *Anal. Chem*., 2016, 88 (8), 4311

D.F.Thompson, **Rapid prototyping of cyclonic spray chambers for inductively coupled plasma based techniques using low cost 3D printer technology*,*** *J. Anal. At. Spectrom*, 2014, 29, 2262