

Luke Ellis

Analytical Chemist

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EXPERIENCE

Analytical Chemist (Metals Department) — South West Water

Oct 2020 – May 2021 · Exeter, UK

- Analysed metal content in the public water supply by ICP-MS — instrument operation, maintenance, and sample preparation on an Agilent 7000-series system.
- Worked as a key worker through the COVID-19 pandemic, keeping water quality assurance running under constantly changing health guidelines.
- Managed analytical results in the laboratory LIMS, ran proficiency schemes, and supported training across the department.

Assistant Scientist — Environment Agency

Aug 2016 – Aug 2018 · Leeds, UK

- Rotated across the National Laboratory Service departments, analysing environmental samples to UKAS-accredited standards for the Agency and external clients.
- Analysed formal samples used as evidence in legal prosecutions, where chain of custody and quality control are non-negotiable.
- Specialised in organic chemistry — volatile organic compounds by headspace GC-MS — and co-produced an educational video on asbestos identification by polarised light microscopy for NLS conferences.

STEM Outreach Assistant — University of Bradford

Sep 2014 – Sep 2015 · STEM Central Laboratory, University of Bradford

- Delivered everything from Lego Robotics workshops to undergraduate chemistry practicals in the STEM Central laboratory.
- Represented the Royal Society of Chemistry, delivering the Spectroscopy Outreach Workshop to over thirty schools and colleges across Yorkshire.
- Supported a 15-week programme for the educational charity 'Teaching, Learning, Growing', working with students excluded from mainstream schools.

OPEN SOURCE

- **filamentphp/filament** #19673 — Fix JS Notification/Action/ActionGroup method shadowing bug (2026-04-13)
- **YanGusik/laravel-balanced-queue** #8 — Fix: Handle numeric partition keys in SmartFairStrategy (2026-01-27)

SKILLS

Analytical Chemistry · Sample Preparation · Mass Spectrometry · ICP-MS · ICP-OES · Particle Size Analysis · IR Spectroscopy · Laboratory Safety · Good Laboratory Practice (GLP) · Quantum Mechanics · Molecular Modeling

SELECTED PROJECTS

Asbestos Identification by Polarised Light Microscopy

Neonicotinoids & Bees

EDUCATION

MChem (Hons) Chemistry with Industrial Experience — University of Bradford (2010–2015)

A Level General — King Edward VI School Lichfield (2008–2010)

HONOURS & AWARDS

Local Recognition Award — Chris Mann, Particle Size Team Leader, Environment Agency

COMMUNITY & OUTREACH

STEM Ambassador (Aug 2014 - Sept 2015)

Volunteer at Bradford Science Festival 2013 (Oct 2013 - Dec 2014)

Chemistry Week 2013: Event Organiser (Aug 2013 - Dec 2015)