

Ryan James Ellison

<https://ryan-j-ellison.netlify.app/>

Post-viva Biomedical Sciences PhD Student at the University of York. I am passionate about teaching and outreach, and I love to engage with students and the public to discuss scientific research. I am now seeking a new challenge to apply my scientific knowledge outside of a laboratory environment.

KEY SKILLS

Communication

Skilled oral communicator developed through outreach events and scientific presentations to a variety including both the general public and senior academics. Strong written communication skills evidenced by numerous progression reports and successful applications to conferences and bids for both internal and external funding.

Attention to detail

Minute experimental details are crucial for reproducibility and success. This is true not just for conducting experiments, but also for written and verbal scientific presentations. As such I have developed an eye for detail and excellent record-keeping habits.

Project Management

Able to manage multiple aspects of a project simultaneously, prioritising tasks while maintaining flexibility. Setting timelines, identifying key goals and working to deadlines throughout.

CAREER DEVELOPMENT

University of York - PhD in Biomedical Sciences (Sept 2020 - Present)

- Laboratory project investigating how mutation of the gene *FGFR3* may induce changes in the normal bladder epithelial lining and whether this drives development of bladder cancer.
- Strong communication skills developed through regular lab meetings, national and international conferences presenting posters and research talks, as well as numerous outreach events.
- Effective project management and self-organisational skills, developed through scheduling of experiments across multiple projects simultaneously. Balanced short-term goals and report and conference deadlines with long-term project goals.
- Overcame numerous experimental and technical setbacks. Each time I was able to push through and adapt in order to continue my research, and as such I have developed a high level of resilience.
- Ran "Meet a PhD" outreach sessions where undergraduate students could speak to postgraduates in a relaxed environment to find out if they wanted to undertake postgraduate study. I have also delivered several outreach talks at Sixth form colleges about degrees and careers in science, and also delivered a series of laboratory practicals to sixth form students to show them how lab techniques can inform on cancer treatment.
- Started my own outreach website and blog to inform students thinking about postgraduate study on topics such as how to find PhD funding, and what studying for a PhD is actually like.

University of Oxford - Undergraduate and Integrated Masters in Biochemistry (Sept 2016 - Jul 2020)

- Laboratory project investigating which parts of the protein Mad1 are required for human cells to control the timing of how they divide.
- As a guest author, wrote a historical perspective article for The Oxford Scientist on the History of Blood Transfusions.
- As President of the Kendo Club, organised equipment orders and tournament entry and chaired executive committee meetings. Also liaised with the Treasurer to obtain club grants and submit annual financial reports.

University of Oxford and Aix-Marseille Université - Laidlaw Scholarship (Feb 2018 - Aug 2018)

- Laboratory project to genetically engineer *E. coli* bacteria which can recognise and kill Colorectal Cancer cells.
- Researched background literature and developed a successful project proposal to obtain >£8000 funding.
- Obtained Institute of Leadership and Management Level 3 certificate and completed Epigeum course of Research Integrity in Biomedical Sciences.

EDUCATION

University of York - PhD in Biomedical Sciences (Sept 2020 - Present)

Viva examination passed subject to corrections. Completion within the next six months.

University of Oxford - Undergraduate and Integrated Masters in Biochemistry (Sept 2016 - Jul 2020)

MBiochem (*Hons*) - *Upper Second Class (2:1)*

First Year Modules: Biological Chemistry, Biophysical Chemistry, Organic Chemistry, Molecular Cell Biology, Mathematics and Statistics

Second and Third Year Modules: Molecular Biology and Genetics, Cell Biology and Integration of Function, Energetics and Metabolic Processes, Structure and Function of Macromolecules, Data Analysis and Interpretation

Carmel Sixth Form College (Sept 2014 - Jun 2016)

A Level - Biology (**A***), Chemistry (**A***), Mathematics (**A**). AS Level - Psychology (**B**) and EPQ (**A***).

Rainhill High School (Sept 2011 - Jun 2014)

GCSEs - Biology (**A***), Chemistry (**A***), Physics (**A***), Science (**A***), Mathematics (**A***), English Language (**A**), English Literature (**A**), French (**A***), Geography (**A**), PE (**Distinction***), IT (**Distinction***), Resistant Materials (**A**).
