

Jack Griffiths

ORCID: <https://orcid.org/0009-0000-5378-0280>

LinkedIn: <https://www.linkedin.com/in/jacktgriffiths/>

Email : jacktgriffiths@proton.me

Mobile : +44 7883 730 764

EDUCATION

- **Keele University** Keele, UK
Masters of Research in Bioscience (Neuroscience); Grade: In progress *Sep. 2024 – Sep. 2025*
- **Keele University** Keele, UK
Bachelor of Science in Neuroscience (Hons); Grade: 2:1 *Sep. 2022 – Jun. 2024*

EXPERIENCE

- **Keele University** Keele, UK
Graduate Researcher - Keele Neural Tissue Engineering Lab (NTEK) (Dr Chris Adams) *Jan. 2025 - Present*
 - **Co-authored Publication:** "Development of a Three-Dimensional Pathology-Simulating Model of Neurotrauma Using a Polymer-Encapsulated Neural Cell Network" <https://doi.org/10.3390/gels11040247>
 - **Neural Tissue Culture:** Established dissociated multicellular cerebellar cultures to quantify neuronal and glial subtypes, assess cell-type proportions, and analyse cellular morphology in support of neurotrauma research.
 - **Microelectrode Arrays:** Recorded and analysed neural network activity using micro-electrode array (MEA) electrophysiology to assess function.
 - **Rodent Dissection & Tissue Slicing:** Performed rodent brain dissection and prepared cerebellar slices for both fixed immunostaining and live culture experiments.
- **Keele University** Keele, UK
Student Researcher - Neuroscience *Jan. 2024 - August 2024*
 - **Undergraduate Research Project:** Conducted a systematic review on the efficacy of psilocybin in treating Major Depressive Disorder (MDD), critically evaluating clinical trial outcomes and therapeutic implications.
- **Mail Solutions Group** Telford, UK
Project Manager - Headed up new start-up eco-friendly products, paper straws division *Dec. 2018 - Sep. 2021*
 - **International Research:** Organised and facilitated an international research trip to China, collaborating with manufacturers and suppliers to establish key partnerships.
 - **Investment:** Grew the division from start-up to £300,000 turnover and secured a further £500,000 in investment into world-leading machinery, the first of its kind in the UK, projecting a £1,500,000 turnover.
 - **BRC-Accredited Facility:** Planned and oversaw the construction of a BRC-certified food packaging manufacturing facility (360m²).
 - **Team Leadership:** Led and managed a cross-functional team through rapid start-up growth, ensuring consistent output and high morale in a demanding production environment.
 - **Client Relations:** Built strong relationships with customers across the UK, Europe, and the Middle East.
 - **Sales Strategy:** Collaborated with the Sales Director to create targeted sales plans and drive lead generation.
 - **Team Expansion:** Recruited and onboarded six employees, establishing an efficient 18/6 work schedule.
- **Capgemini** Telford, UK
Software Engineer - HMRC Aspire Project *Nov. 2015 - Sep. 2018*
 - **Big Data Integration:** Gained extensive experience in resolving challenges related to ingesting standardised and non-standardized data into a centralised Big Data hub.
 - **Data Ingestion and Processing:** Developed and executed Pentaho scripts to ingest and interpret HMRC taxpayer data efficiently. Extracted and processed data using MySQL, Impala, and Beeline for accurate analysis.
 - **Java Development:** Supported the development and documentation of our in-house bespoke standardisation solution.
 - **Git Administrator:** Took ownership of administering Bitbucket, the git solution used for storing all company project data.
- **Capgemini** London, UK
Data Scientist - McDonald's Project *Sep. 2018 - Dec. 2018*

- **Big Data Implementation:** Contributed to McDonald's pilot Big Data and Analytics project, implementing advanced technologies such as Paxata and Waterline Data to optimise data processing. Conceptualized and prepared large-scale datasets for big data analysis, ensuring seamless integration with new technologies.
- **Training:** Delivered training sessions on Paxata and Waterline Data, equipping analysts to manage and process McDonald's vast datasets effectively.
- **Technical Documentation:** Developed comprehensive documentation to support the McDonald's business analytics team in adopting new tools.
- **Stakeholder Collaboration:** Liaised with managers and clients to facilitate the successful handover and adoption of new technologies.
- **Certification:** Earned certification as a Paxata Data Analyst, demonstrating technical expertise in big data analytics tools.

• Logicomm 2000

Cannock, UK

Computer Engineer - Apprenticeship

Sep. 2014 - Nov. 2015

- **Server and Network Deployment:** Implemented server stacks, including Active Directory and Exchange services, and optimised customer networks with CAT 5e/CAT 6 cabling, firewall, and router configurations.
- **Technical Support:** Provided cross-platform support for Windows, Mac, and Linux, including remote assistance via ScreenConnect and hardware deployment for customer needs.
- **Wi-Fi and Connectivity:** Installed long-distance Wi-Fi bridges using Ubiquiti systems to extend reliable connectivity.
- **Web and Task Management:** Designed and edited customer websites while managing support tickets using Spiceworks for efficient task tracking.

LABORATORY SKILLS

- **Techniques:** Cell & Tissue culture, Immunofluorescence, Confocal & Phase contrast microscopy, MEA recording, Tissue slicing, Rodent handling/dissection, Nanofibres

PROGRAMMING SKILLS

- **Languages:** Java, Python, JavaScript, C++, SQL, R, Shell
- **Technologies:** Pentaho ETL, Hadoop & HDFS, Paxata & Waterline Data, Atlassian Suite (JIRA, Confluence), MATLAB, ImageJ/Fiji, Git, Zeiss Zen