**PROFILE**

I am a PhD candidate and clinical researcher working on multi partner projects and will complete my studies in Summer 2024. I am well-organised and my research focuses on data collection for two xxx based experimental protocols. I am solution focussed and use my expertise in science and technology to assist and support partners and collaborators. My wide range of technical skills support me in achieving personal and team goals. I possess excellent management and organizational skills while fostering a collaborative working environment. **Python and R**

**EDUCATION**

2024 **PhD** Neuroscience(??) University College Cork (current student)

2018 **MSc** Applied Psychology University College Dublin

2017 **BA** English/Sociology Trinity College Dublin

**CURRENT WORK EXPERIENCE**

**2021 to Present:**

**University College Cork: Clinical Research Scientist and PhD Candidate**

Currently I work on projects investigating xxx and how we could provide insight for future investigation of xxx in the pathogenesis of xxxx. I am additionally exploring the effect of xxxxx. I am involved in all aspects of the projects including arranging xxx research; developing collaborations within and outside of the organisation; training others; managing laboratory setup and liaising with internal business development managers.

**PROFESSIONAL COMPETENCIES**

**Research Project Management**

* Lead researcher on research project funded by the Irish Research Council
* Write reports and deliver work packages on time and within budget
* Budget preparation (personnel, equipment, travel, consumables)
* Engagement with suppliers e. g. negotiation focussing on value-added results.
* Leading and participating in troubleshooting meetings regarding the projects within the group and with xxx collaborators, internal stakeholders.

**Data Analysis and Technical Skills**

* Design, analyse and interpret data for research studies.
* Arrive at conclusions about xx and xxxx through the evaluation and application of mathematical and statistical formulas.
* Data manipulations
* Word, PowerPoint and Excel
* Use of software programme R, SPSS,
* Linear Algebra, Multivariable Calculus, Python
* Use of SPSS statistics programme for statistical analysis of data collected throughout PhD.
* Matlab for presentation of data in graph format for publications.

**Clinical Research Expertise**

* Regulatory submissions for clinical research.
* Knowledge of scientific concepts related to the design and analysis of clinical research.
* Understanding of requirements at the site level to run a study inclusive of financial and personnel aspects.
* Prepare and review research documents and protocols as per specifications.
* Coordinate clinical research, ensuring timeline and quality/safety standards are adhered to.
* Manage clinical research work streams with internal and external stakeholders and collaborators.
* Oversee and coordinate the preparation of documentation for regulatory submissions including investigator brochures, protocols, and research reports.
* Use my statistical expertise to improve the use of clinical systems and data analytics related to research studies.

**Leadership Potential and Talent Development**

* I represented Ireland in the xxxx
* I xxxxx
* Train, and mentor the researchers and masters students in the group.
* Provide training and technical assistance to students and colleagues.
* Volunteered with xxxx – working with xxx

**Problem Solving**

* Combined analytical, computational and data analysis skills to identify data trends and deliver a “full-picture” of experimental and research results inclusive of interpretation and visualization of complex linked-data.
* Strong analytical and critical thinking skills, which support the identification of inconsistencies in scientific data and subsequent results.

**Communication Skills**

* Oral presentations of results with collaborators, xxxx partners and stakeholders.
* Oral presentations of results at seminars and conferences.
* Productive relationship with collaborating groups.
* Engagement with general public and outreach (xxxxx)

**Previous Work Experience**

**Role Organisation Date**

***References available upon request***

**Laboratory Skills**

* Biologically laboratory techniques including isolation of cell fractions from Buffy Coats, Western Blots, different biochemical assays (e.g. MTT assay; ELISA); bacterial work
* Mouse handling (injections, tumour measurements, weaning, health monitoring) [Art. 9 on Laboratory Animal Science (FELASA accredited for ‘person designing procedures and projects; EU function B; reference 058/17)]
* Flow cytometry
* Microscopy including Fluorescence Microscopy and Confocal Microscopy
* Working with genetically modified organisms (ML-I level)
* Designing animal experiments according to the European Law

**In vitro expertise/In-vivo (????)**

* Mammalian Cell culture; Cell viability and death assays; Transient and stable transfection of mammalian cells;
* Luciferase reporter assays; Western Blotting; Co-immunoprecipitation; ELISA;
* Intricate tissue dissection; Tissue homogenization; Competent murine handling including intra-peritoneal and subcutaneous injection; Post mortem surgical techniques.
* RNA, DNA and protein extraction and purification from cells and tissues PCR; reverse transcription; Real Time PCR, 16S DNA library preparation for NGS
* Western blotting; northern blotting and slot blotting
* Immunoprecipitation and chomatin-immunoprecipitation (ChIP) ChIP-Seq and RNA-Seq
* Recombinant protein expression and purification (basic HPLC experience).
* Restriction analysis; molecular cloning and site-directed mutagenesis
* RNAi, ELISA-based assay

**Scientific Techniques/Bio/**

* RNA Extraction
* qRT-PCR
* Next Gen Sequencing
* Immunoassay
* Blood Processing
* *In Silico*Analysis
* Handling of Clinical Samples
* Blood Processing
* Immunoassays
* RNA Extractions
* qPCR Techniques
* Bioinformatics on NGS data

**Bioinformatics and Computational Biology (????) or lab safety????**

* Design, analyse and interpret data for research studies
* Arrive at experimental conclusions through the evaluation and application of mathematical and statistical formulas
* Data Management & Analysis: SPSS, Excel, Matlab, Biopyton, Bioperl, R/Bioconductor/Shiny (??)
* Data Analysis: dataset design, cleaning, management and statistical analysis
* *IT Skills:* Microsoft Word, Excel, PowerPoint, EndNote, social media, internal UCC systems
* DNAStar Suite, Artemis, Biostatistical tools, other molecular biology related software (???)