Sarah Shipley

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Summary

I am a first year PhD student, completing a collaborative project between the University of Cambridge and University College London. My research focuses on the role of the hippocampal network in memory formation and consolidation; specifically how this process is affected in Alzheimer's disease. I have previous clinical experience within Neurophysiology, performing EEG, EMG and evoked potential recordings.

Education

PhD in Clinical Neuroscience, University of Cambridge **2018 – Present**

- Project: An investigation of hippocampal replay in a mouse model of Alzheimer's Disease.
- Supervisors: Dr Dennis Chan (University of Cambridge) and Dr Caswell Barry (UCL).
- Techniques: Single cells electrophysiology recordings *in vivo,* behavioural analysis using a radial arm maze task, use of DREADDs, data analysis in MatLab and Python.

MRes Biosciences (Neuroscience), University College London **2017 – 2018**

- **Grade: Distinction with Dean's List Award**
- Project: Using Rodent Virtual Reality to Assess the Effect of Spatial Uncertainty on Grid Cell Firing
- Techniques: Single cells electrophysiology recordings *in vivo,* rodent virtual reality, behavioural training and analysis, data analysis in MatLab and SPSS.

MSc Clinical Science (Neurophysiology), Manchester Metropolitan University **2014 – 2017**

- **Grade: Distinction**
- Project: The Use of EEG Features for the Prognosis of Unresponsive Patients in the Intensive Care Setting.
- Techniques: EEG and retrospective review of patient health records, data analysis in SPSS.

BSc Neuroscience, University of Sussex **2010 – 2013**

- **Grade: First Class Honours**
- Project: How do sensory and motor factors influence the likelihood of imitation in the game rock-paper-scissors?

A Levels, Ilfracombe College, North Devon **2008 – 2010**

History A, Biology B, Mathematics B. AS Levels: Chemistry C, Critical Thinking B

Employment

Trainee Clinical Scientist in Neurophysiology, East Kent Hospitals NHS Trust **2014 – 2017**

I successfully completed the NHS scientist training programmed in Neurophysiology to qualify as a clinical scientist. This involved working full time in a hospital department whilst completing a part-time taught masters degree.

- Role involved diagnostic testing such as EEG (including sleep, paediatric, ITU and long term monitoring), EMG and Evoked Potentials.
- Performed local audits which resulted in an update of protocols.
- Required the ability to express scientific information in an accessible way to patients of all ages.
- Combining work and study required excellent organisation and time management.

Publications

In press: G Casali, **S Shipley**, C Dowell, R Hayman & C Barry (2018). Entorhinal neurons exhibit cue locking in rodent VR. Front. Cell. Neurosci. doi: 10.3389/fncel.2018.00512

Interests and Activities

STEM Ambassador
I have been a STEM Ambassador in both the East Kent and South West regions. I have attended schools to discuss careers in science and the paths into them, as well as assisting on a workshop at a South West Regional STEM Meeting. These activities have developed my ability to disseminate scientific information in an accessible way, as well as improving my presentation and leadership skills.

Other Interests
Rock climbing, running, reading and cooking.

References

Available on request.