

Neuroscience

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brain

processing in the superior colliculus (SC), a brain region important for orienting behaviours. The student will use twophoton calcium imaging, behavioural training, and advanced data analysis techniques to examine how reward- æ Í\ôî Û + ô Í X 2 2 Û Í ¯ ô è e \ Û visual processing in the SC.

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Name of PI| Tom Baden

Project: Evolution of function in the vertebrate retina

Description: This project explores how synapses, neurons, and networks in the vertebrate retina have evolved to meet new sensory and behavioural demands. The student will use systems neuroscience, behavioural ecology, and genetic manipulation to study these processes 2 Û 1 : î ô + Û : X Í 2 \ 1 \ Û \ j è Û Í \ Û • ô æ X Í ± \ à Û 1 è ô à Û Í vertebrates, contributing to a deeper understanding of evolutionary changes in brain function.