

## **MSc Research Projects 2015-2016**

*Completed by students on the MSc Psychology, MSc Brain Imaging & Cognitive Neuroscience and MSc Computational Neuroscience & Cognitive Robotics*

- A correlational study of psychopathic and anxiety traits and their effect on emotional recognition
- An investigation into the mechanisms of selective attention and value in humans
- Anticipatory and adaptive timing in synchronization in rhythm changing tasks: Analysis of finger tapping in time with tempo changing metronome or pitch-change sequences
- Assessing spontaneous and prompted imitation of actions with objects and gestures in children with autism
- Automatic adaptation of gains in the computed torque model of a robot manipulator
- Behavioural and fMRI study of spatial metaphors for social space
- Brain computer interface control of a haptic device
- Call sequences in wild bonobo communication: A case for the importance of individual differences
- Combining the Bayesian Causal Inference model and a drift-diffusion race model to examine the effect of stimulus duration on the ventriloquist effect
- Construct an alert model for navigation based on robots local cost map
- Contributions of the left- inferior parietal sulcus and temporo-parietal junction to proactive and reactive attention suppression
- Deep hierarchies for visual object classification and categorisation
- Depression in adults with Williams syndrome
- Do autistic traits and alexithymia play a role in the report of counterfactual emotions and risky decision-making?
- Do emotion regulation strategies mediate the relationship between callous-unemotional traits and aggression in individuals with conduct problems?
- Does functioning predict symptoms in those with 'at-risk mental states'?
- Does multisensory learning help new language acquisition: Evidence from American Sign Language and Mandarin learning
- Economic migrants: How do the British people perceive identification of migrants?

- Effect of non-invasive brain stimulation on motor learning
- Effects of reward on visual working memory in young adults and adolescents
- Electrophysiology of pattern glare stimuli in relation to visual stress
- Error-related brain activity in misophonia
- Geometric reasoning in human tool use
- How do we adapt to changing stimuli? A novel experiment and model comparison
- Imitation and invention a button code by young children
- Individual differences in self-reported instruction following behaviour and academic self-efficacy
- Investigating evidence accumulation in a multisensory localization task with electroencephalography and psychophysics
- Investigating the overlap of retinotopically mapped fMRI areas with orthographic representations
- Monitoring and merging the multisensory environment during sleep
- Morality and its usefulness, exploring the dark side
- Motion trajectory prediction using a noninvasive brain-computer interface
- Network model analysis of integrated brain functional network development from wakefulness to light sleep
- Neurocognitive correlates underlying visual hallucinations and distortions in the non-clinical population
- Next best view planning for object recognition
- Proactive and reactive controls: in the expression of autistic tendency and psychosis proneness
- Resolving object recognition in time using EEG
- Speech and non-speech processing in typically developing
- Testing a novel free association paradigm for spontaneous trait inference (STI)
- The effect of short-term martial arts training on motor coordination
- The effects of monetary reward and punishment on adaptive motor skill learning

- The effects of temporal and spatial contextual clustering on episodic memory in the real world
- The electrophysiology of motor observation and action
- The investigation of the woody filter technique for analyzing the conscious and unconscious perception
- The relationship between religious mental imagery and emotion in young adults across a spectrum of hypomanic-like experiences
- The role of cultural transmission on the structure of gestures in humans
- Toddlers and toddlers at risk for autism spectrum disorders
- Using social norm messages to prevent dissatisfaction associated with reduced portion size
- Visual-distortions are selectively correlated with dimensions of sub-clinical psychotic experiences: Evidence from the pattern-glare task