

## **DPhil in Translational Studies of Neuromodulation in Eating Disorders:**

Investigation of novel experimental treatment strategies and predictors of response in Eating Disorders

The prognosis for Anorexia Nervosa remains poor, with few evidence based treatments. Increasing evidence suggests aberrant neural mechanisms may underpin some aspects of the disorder. In order to improve treatments development a more innovative approach to defining treatment targets and intervening with neural mechanisms is required.

There is some evidence that Direct neuromodulatory techniques – TMS, TDCS and Deep brain stimulation - may address processes in psychiatric disorders such as depression and impulse control disorders which share common features with eating disorders. This project focuses on defining and developing specific neural targets for neurostimulation to alleviate eating disorder pathology. Response predictors will employ neuropsychological testing and may involve brain imaging to assess functional responses in emotional and reward circuitry. The proposal will therefore allow experience in contemporary clinical neuroscience, using experimental strategies and/or neuroimaging. The project main supervisor will be Rebecca Park, whose expertise is in clinical and translational neuroscience applied to eating disorders. If you are interested in discussing the project please contact:

Dr Rebecca Park: [Rebecca.park@psych.ox.ac.uk](mailto:Rebecca.park@psych.ox.ac.uk)