Research area:

A funded PhD position is available in the Human Computer Interaction (HCI) group in the field of social signal processing and human behaviour understanding. The aim of this project is to apply machine learning techniques within the field of computational psychology. Computational psychology bridges artificial intelligence to psychology and seeks to create artificial social intelligence which is an emerging field of research, essentially seeking to provide artificial agents with social awareness similar to humans. More specifically, this project aims to decode social/psychological attributes (or disorders) in terms of nonverbal behavioral cues such as vocalisation, facial expression, gesture, posture, eye-movements, physiology or etc. A multimodal approach in which more than one modality of nonverbal behaviors are employed is the ultimate goal and the candidate is expected to develop new algorithms for data fusion process. A number of areas of interest such as emotion, mood and communication skills or psychological disorders such as depression, anxiety, PTSD and MCI can be investigated which will be decided based on the candidate background/interests and available resources.

Requirements:

The successful applicant will have:
- Good programming skills
- Good knowledge of machine learning
- Some knowledge of signal/image processing
- Ability to work in an interdisciplinary field
- Good analytical skills
- Proficiency in English

How to Apply:

All applications should be sent to Gelareh Mohammadi (g.mohammadi@unsw.edu.au). Your application should include:

1. Motivation letter
2. CV, copies of all transcripts, degrees, English test result (if available) and publications (if any)
3. Names and contact details of at least 2 referees.
4. Research proposal (in case you are interested in a certain research topic)

Recommendation letters can be submitted along with the application but are not needed at the time of application.