

UQ Winter Research Project Description - 2026

Please use this template to create a description of each research project, eligibility requirements and expected deliverables. Project details can then be uploaded to each faculty, school, institute, and centre webpage prior to the launch of the program.

Project title:	Multimodal Aphantasia
Hours of engagement & delivery mode	<p>For the Summer program, students will be engaged for 6 weeks only. For the Winter program, students will be engaged for 4 weeks only.</p> <p>Hours of engagement: 24 per week, 29 June – 24 July 2026.</p> <p>On-site, St. Lucia campus. In person research</p>
Description:	<p>Aphantasia refers to an inability to visualise. However, it can also be associated with imaginative disabilities for other sensory modalities. Some Aphantasics cannot experience imagined sounds, or imagine talking to themselves with an inner voice. Others cannot have imagined sensations of taste, or of smell.</p> <p>In this project, we will recruit a group of Aphantasic participants, who have varying imaginative disabilities for different sensory modalities. We will record their brain activity while they try to have a range of different types of imagined experience, and compare these recordings to a normative sample to determine what aspects of brain activity predict particular types of imaginative disability.</p>
Expected learning outcomes and deliverables:	The winter scholar will be trained in how to conduct EEG experiments, and analyse EEG datasets. If the project is successful, they may be invited to take part in preparing the research for publication.
Suitable for:	This project would most benefit 2 nd or 3 rd year Psychology students, who have some background understanding of cognitive neuroscience.
Primary Supervisor:	Prof. Derek Arnold
Further info:	<p>Applicants should first consult the project website https://www.psy.uq.edu.au/~uqdarnol/Aphantasia.html</p> <p>If they have further questions, they may contact Prof. Derek Arnold</p>

