

## ARC PhD Scholarship in Computer Science

One scholarship is available for an exceptional student to complete a PhD in Computer Science supervised by Professor Maurice Pagnucco (Deputy Dean – Education, UNSW School of Computer Science & Engineering), Scientia Professor and ARC Laureate Fellow Dennis Del Favero (UNSW, iCinema Research Centre), and Dr Carlos Tirado (UNSW, iCinema Research Centre) beginning in 2022.

The work of the successful PhD candidate will form part of the international Australian Research Council funded project ‘Burning Landscapes: Reimagining Unpredictable Scenarios’. This project is part of flagship research currently undertaken at UNSW’s iCinema Centre for Interactive Cinema Research. It aims to investigate how globally distributed users and intelligent systems can collaboratively model unforeseen and multi-located wildfire scenarios, and to visualise these in real time at 1:1 scale. The project will transform how we visually understand, explore, and respond to these complex and dynamically evolving events.

The project is undertaken in collaboration with a range of national and international academic and industry partners including San José State University (USA) and the CSIRO. The PhD candidate will be part of an art, design and technology research team and will contribute to the participatory research process, collaborating directly with numerous fire and creative industry partners. More information about the project can be found here: <http://icinema.unsw.edu.au/projects/ifire/project-overview/>

### Eligibility Details

Essential:

- a four-year Bachelor’s degree with Honours Class I from an Australian institution, or equivalent research qualification experience in Computer Science, or a Master’s Degree with a Distinction average. The qualification must be in a field relevant to the proposed area of research in Computer Science.
- meet the UNSW PhD entry requirements
- be able to enrol as a full-time PhD student
- programming experience with C#, C++, Python, or similar languages

Desirable:

- interest and/or experience in Data Visualisation; or
- experience in designing interfaces for Augmented Reality, Virtual Reality, and Mixed Reality; or
- an interest in and awareness of Human-Computer Interaction for AR/VR technologies, Interaction Design, or UX Design; or
- different Artificial Intelligence techniques such as Machine Learning, Reinforcement Learning, Deep Learning, etc.

### Scholarship Details

- The student will receive an annual living allowance of \$27,609 for up to 4 years, beginning in 2022, and be allowed to take on external work for up to 2 days per week.
- The scholarship is tax exempt.
- For international applicants: We can offer travel exemption letters for travel to Australia in early 2022.

### How to Apply

To apply for this scholarship – or for more information about the project, eligibility, or selection criteria – email ARC Laureate Fellow Professor Dennis Del Favero ([d.delfavero@unsw.edu.au](mailto:d.delfavero@unsw.edu.au)). Please include your CV, academic transcripts, and a broad description of research interests (max. 500 words).