

## News

# Discovery Early Career Research Award for Andrew Zammit Mangion

10 November 2017

Dr Andrew Zammit Mangion in the Centre for Environmental Informatics, NIASRA, has been awarded a prestigious ARC DECRA. The award has funding of \$348,575 that will enable Andrew to undertake the project *Deep space-time models for modelling complex environmental phenomena*.

DECRA grants are highly competitive with a 16% success rate and this grant is one of only 197 awarded nationally.

This project aims to adapt deep-learning models, used in areas of artificial intelligence such as image tagging and automatic text translation, to improve our understanding of the environment. The project expects to develop new theory for deep-learning models to learn from measurement data and numerical-model output about environmental phenomena that evolve in space and time, such as ice sheets and the atmosphere. Expected outcomes include the ability to provide reliable predictions and quantification of uncertainty on environmental concerns of national importance, such as sea-level rise. Key benefits include improved risk management and mitigation, for example through financial incentives or infrastructure planning.

Last reviewed: 10 November, 2017

---

Northfields Ave Wollongong, NSW 2522 Australia

Phone: **1300 367 869**

International: **+61 2 4221 3218**

Switchboard: **+61 2 4221 3555**

Connect with us



On the lands that we study, we walk, and we live, we acknowledge and respect the traditional custodians and cultural knowledge holders of these lands.

Copyright © 2020 University of Wollongong  
CRICOS Provider No: 00102E | Privacy & cookie usage |  
Copyright & Disclaimer