Adele K. Morrison

Senior Lecturer

Research School of Earth Sciences, Australian National University, 142 Mills Rd, Acton ACT 2601, Australia adele.morrison@anu.edu.au



2014

Uwe Radok Award

Academic Qualifications	
Doctor of Philosophy - Uwe Radok Award for best PhD thesis from the Australian Meteorological and Oceanographic Society	Australian National University 2014
Graduate Diploma in Education - Bernhard Neumann Memorial Award for Outstanding Mathematics Student	University of Canberra 2006
Bachelor of Science (Hons) - University Medal in Physics and First Class Honours	Australian National University 2005
Employment History	
Senior Lecturer Australian National University	Canberra, Australia 2024 - present
Australian Research Council DECRA Fellow Australian National University	Canberra, Australia 2017 - 2023
Postdoctoral Research Associate Princeton University	Princeton, USA 2014 – 2016
Secondary School Physics and Mathematics Teacher Radford College and ANU Secondary College	Canberra, Australia 2007 – 2011
Awards	
IAPSO Early Career Scientist Medal A biennial award of the International Association for the Physical Science outstanding research in physical oceanography and cooperation in	· ·
COSIMA Most Selfless Contributor Award For community leadership and model development contributions to the C Sea Ice Modelling in Australia (COSIMA)	2023 Consortium of Ocean –
Malcolm McIntosh Prize for Physical Scientist of the Year One of the Australian Prime Minister's Prizes for Science (\$50,000 prize)	2022
L'Oréal - UNESCO For Women in Science Award One of five Australia / NZ Fellows (\$25,000 prize)	2020
Meyers Medal A biennial award for early career researchers from the Australian Meteo Oceanographic Society	2018 prological and

 $For \ best \ PhD \ thesis \ in \ the \ fields \ of \ meteorology, \ oceanography, \ glaciology \ or$ climatology awarded in Australia

Scientific Leadership Roles

Provided evidence to the Australian Federal Government Evidence provided at the 'Inquiry into the importance of Antarctica to Australia's	2024 s national interests'
Member of the ACCESS-NRI Scientific Advisory Committee ACCESS-NRI is an NCRIS-funded National Research Infrastructure supporting a of Australia's climate models.	2022 – present levelopment
Program Leader, Australian Centre for Excellence in Antarctic Science (AC ACEAS is a \$20M ARC Special Research Initiative.	EAS) 2021 – present
CLIVAR Ocean Model Development Panel (OMDP) Member OMDP coordinates international ocean model intercomparisons and developmen	2020 – 2024 <i>at</i> .
Co-chair, Consortium for Ocean and Sea Ice Modelling in Australia (COSIM Leadership of COSIMA's 100+ member community, including coordinating week meetings, annual workshops and model development efforts.	
Session Convenor AGU Ocean Sciences Meetings 2016, 2018, 2024 AMS International Conference on Southern Hemisphere Meteorology and Ocean Australian Meteorological and Oceanographic Society Conferences 2018, 2019	2016 – present ography 2022
Research Funding (as Chief Investigator)	
Australian Research Council (ARC) Discovery Project, DP250100759 Improving projections of the risk of ocean-driven Antarctic ice melt (Lead CI)	AUD \$540k, 2025-2027
ARC Discovery Project, DP230101836 Connecting ocean tides to the large-scale ocean circulation	AUD \$340k , 2023-2025
ARC Special Research Initiative, SR200100008 The Australian Centre for Excellence in Antarctic Science	AUD \$20M, 2022-2025
ARC Linkage Project, LP200100406 Building Australia's next-generation ocean-sea ice model	AUD \$1.2M, 2021-2025
NZ Marsden Fund Grant, 20-UOO-173 How vulnerable are Antarctica's coasts to colonisation?	NZ \$960k, 2021-2023
ARC Discovery Project, DP190100494 Risks of rapid ocean warming at the Antarctic continental margin	AUD \$583k , 2019-2024
ARC Discovery Early Career Researcher Fellowship, DE170100184 Resolving the mechanisms and pathways of Antarctic dense water formation (1)	AUD \$360k , 2017-2022 Lead CI)
US Department of Energy, Regional & Global Climate Modeling Program Grant, DE-SC0012457 Three-dimensional structure of the Southern Ocean overturning circulation	USD \$763k, 2015-2017
Research Supervision	
Primary supervisor for postdoc Julia Neme (ANU). Panel chair and co-supervisor for PhD student Hangyu Meng (ANU).	2025 – present 2023 – present
Primary supervisor for postdoc Wilton Aguiar (ANU).	2023 – present 2023 – present
Co-supervisor for postdoc Fabio Dias (UNSW).	2022 – present
Co-supervisor for postdoc Matthis Auger (UTAS).	2022 – present
Primary supervisor for PhD student Claire Yung (ANU).	2022-present
Primary supervisor for PhD student Polina Sholeninova (ANU).	2022-present
Joint primary supervisor for Honours student Jemma Jeffree (ANU). First class honours and university medal. She continued on to a PhD at ANU.	2022
Co-supervisor for PhD student Christina Schmidt (UNSW).	2021 – 2025

Primary supervisor for Honours student Claire Yung (ANU). First class honours. She continued on to a PhD at ANU.	2021
Co-supervisor for PhD student Natalia Ribeiro (UTAS).	2021 - 2022
Primary supervisor for postdoc Wilma Huneke (ANU).	2020 - 2022
Co-supervisor for PhD student Hannah Dawson (UNSW).	2020 - 2024
She continued on to a postdoc at UTAS.	
Co-supervisor for postdoc Pedro Colombo (UNSW).	2022 - 2024
Joint primary supervisor for Honours student Ruth Moorman (ANU).	2019
First class honours and university medal.	
She received a John Monash Scholarship to undertake a PhD at Caltech.	
Co-supervisor for PhD student Josue Martinez Moreno (ANU).	2017 - 2021
He continued on to a postdoc at IFREMER – French Institute for Ocean Science.	2017 2016
Primary supervisor for Honours-equivalent student Henri Drake (Princeton University).	2015 - 2016
He continued on to complete a PhD at MIT.	
Teaching	
Lecturer for EMSC1006: Blue Planet (ANU, 1 st year Earth Science), 100 students.	2024 – present
Lecturer for EMSC2021: Fundamentals of Climate Science (ANU, 2 nd year Earth	2020 – present
Science), 60 students.	
Lecturer for ENVS3013: Climate Change: Past, Present and Future (ANU 3 rd year	2020 - 2021
Environmental Science), 60 students.	
Supervision of undergraduate research projects (Advanced Study Courses equivalent	2014 – present
to one semester-long subject and Summer Scholarship projects).	
Invited Talks (last 5 mans)	
Invited Talks (last 5 years)	
Plenary talk, IAMAS-IACS-IAPSO Joint Assembly 2025 (BACO-25), Korea.	2025
Invited talk, European Geosciences Union General Assembly, Austria, in session:	2024
'The Southern Ocean in a changing climate'. Note: I could not attend.	
Plenary talk, Australasian Leadership Computing Symposium, Canberra.	2023
Invited talk, Workshop on Drivers of the Global Overturning Circulation, Sweden.	2022
Note: I could not attend.	
Invited talk, European Geosciences Union General Assembly, Austria, in session:	2022
'Ocean ventilation and its consequences for ocean biogeochemistry and ecosystems'.	
Note: I could not attend.	
Plenary talk, NZ Annual Physical Oceanography Workshop, virtual	2020
Plenary talk, Australian Meteorological and Oceanographic Society Conference, Fremantle.	2020