29 January 2021

Hon Michael Sukkar MP
Assistant Treasurer
Minister for Housing
Minister for Homelessness, Social and Community Housing

Hon Alan Tudge MP
Minister for Education and Youth

# No-or-low cost opportunities for a better, fairer research grant system

Dear Ministers Sukkar & Tudge,

We write to outline six opportunities for significantly improving the certainty, efficiency, fairness and security of the Australian Research Council's (ARC's) grant system, with **no cost (or extremely low cost)**:

- 1. Fixed dates for ARC Outcomes
- 2. Streamline ARC proposals
- 3. Improved system for responding to peer reviews
- 4. Consequences for inappropriate and unprofessional reviewer comments
- 5. Research Management System security
- 6. Direct outcome notification to applicants

The **1007** <u>signatories</u> below are researchers in Australia (or with close ties to Australian research). Many have extensive experience with the ARC's National Competitive Grants Program, having served on ARC selection committees or having held prestigious ARC Fellowships: among the signatories, **22** have held the ARC Australian Laureate Fellowships, and **109** have held ARC Future Fellowships. And while **430** signatories are senior researchers (Professors and Associate Professors), most others are researchers whose future careers depend critically on ARC funding. Together, we present this Pre-Budget Submission to assist in strengthening the ARC system to optimise the tax-payer funding that fuels discovery and innovation in Australia.

We look to your new leadership and responsibility for the ARC to implement these simple-but-high-impact measures to provide much greater certainty for Australian researchers, university support staff, their families and collaborating industries. Indeed, opportunities 1, 2 & 4 require no new funding, and we would welcome them as soon as possible as the university research sector struggles to directly support research during the ongoing pandemic. Although very modest, implementing these changes would represent the most significant improvements in the ARC process for researchers in the last decade or more.

## Yours sincerely,

**Prof. Matthew Bailes**, 2015 ARC Australian Laureate Fellow, Director of ARC Centre of Excellence for Gravitational Wave Discovery, Professor of Astrophysics

Prof. Jodie Bradby, 2014 ARC Future Fellow, Professor of Physics

**Prof. Michelle Coote**, 2017 ARC Georgina Sweet Australian Laureate Fellow, Professor of Chemistry

Prof. Tamara Davis AM, 2018 ARC Australian Laureate Fellow, Professor of Astrophysics

Prof. Peter Goodyear, 2010 ARC Australian Laureate Fellow, Professor of Education

Prof. Peter Harrison, 2015 ARC Australian Laureate Fellow, Professor of History

**Prof. Lesley Head**, 2009 ARC Australian Laureate Fellow, Professor of Geography

**Prof. Nalini Joshi**, 2012 ARC Georgina Sweet Australian Laureate Fellow, Professor of Mathematics

**Prof. Geoffrey McFadden FAA FASP FASM**, 2017 ARC Australian Laureate Fellow, Professor of Malaria & Marine Biology

**Prof. Belinda Medlyn**, 2019 Georgina Sweet Australian Laureate Fellow, Professor of Ecosystem Modelling

Prof. Craig Moritz, 2011 ARC Australian Laureate Fellow, Professor of Biology

**Prof. Lynette Russell AM**, 2019 Kathleen Fitzpatrick Australian Laureate Fellow, Professor of Australian Indigenous Studies

**Prof. Martina Stenzel**, 2020 ARC Australian Laureate Fellow, Scientia Professor of Chemistry

**Prof. Chris Turney**, 2011 ARC Australian Laureate Fellow, Professor of Earth Science and Climate Change

**Prof. Enrico Valdinoci**, 2019 ARC Australian Laureate Fellow, Professor of Mathematics **Prof. Toby Walsh**, 2020 ARC Australian Laureate Fellow, Scientia Professor of Artificial Intelligence

# **Executive Summary**

The research grants provided through the Australian Research Council (ARC) are a vital lifeline for the non-medical research sector in Australia, particularly at this time of heightened uncertainty and even scarcer resources due to the COVID–19 pandemic. In a highly competitive international research landscape, even small uncertainties, barriers or disadvantages can set Australian researchers considerably behind the cutting edge. Now, more than ever, it is important to streamline the ARC grant process, removing unnecessary uncertainties and administrative burdens where possible.

We the undersigned present six simple opportunities to considerably improve the certainty, efficiency, fairness and security of ARC's research grant system:

- 1. Fixed dates for ARC Outcomes (no cost)
- 2. Streamline ARC proposals (no cost)
- 3. A fairer, more efficient system for responding to peer reviews (no or low cost)
- 4. Put inappropriate and unprofessional reviewers on notice (no cost)
- 5. Update Research Management System security (no or low cost)
- 6. Notify applicants directly of outcomes via email (no or low cost)

Most of these opportunities require no new funding. Some may require very small amounts of additional administrative or IT funding for the ARC, but we estimate implementing all solutions would require less than (approx.) 0.4% of the ARC's operations budget in the first year (approx. \$100k), with likely no ongoing costs (or extremely little).

# **Opportunities**

International leadership in research requires efficient, supportive funding systems. Direct support for research through the ARC is crucial, and COVID—19 has put a fine point on this: universities' ability to fund research has evaporated, so ARC funding for non-medical research has become more important than ever. Yet aspects of the ARC's process involve unnecessary, additional uncertainties that complicate and burden Australia's research sector compared to systems in other research-intensive countries. This often leads to the best researchers leaving Australia or staying away, cutting short and diminishing the Government's previous investments in their education and Australia's universities and research system. Even seemingly simple, no-or-low cost improvements can boost Australian researchers' competitiveness in cutting-edge international research.

The community of researchers signing this Pre-Budget Submission have identified several simple, **no-cost** (or extremely low cost) opportunities that will increase certainty in the ARC process and reduce waste across the research sector. These may seem small, but taken together – and multiplied across the thousands of applicants to ARC grant schemes – they will strengthen Australia's research sector, in these difficult times, by

allowing universities and researchers to plan and focus on the research that tax-payers have funded.

The opportunities are summarised below. More detail is provided for some opportunities in the following section ("Further details").

## 1. Fixed dates for ARC Outcomes (no cost)

ARC grants directly fund research. Knowing when funding will be available, should a grant proposal be approved by the Minister for Education and Youth (hereafter, the Minister), is absolutely critical information for planning a huge range of activities related to research: committing capital and staff resources to that project, hiring, pursuing supporting funding opportunities, declining alternative research directions, focussing staff on specific tasks, university support staffing, etc. Planning these activities would increase the competitiveness of Australian researchers. Contingency planning in case ARC funding is not approved is just as important, especially for planning to improve or redirect efforts to secure funding, or refocus on other projects.

However, Australian researchers cannot optimally plan in these ways – and therefore lose competitive edges internationally – because the dates on which ARC outcomes are to be released are not known in advance. The research sector would gain enormous certainty, and ability to plan and optimise its competitiveness, if the date each grant scheme's outcomes would be announced was fixed and advertised when that scheme first opened (or before).

**No funding is required to implement this.** The only requirement is a commitment from the Minister to the ARC about the time period required to approve the ARC's recommendations for funding. See "Further details" below.

## 2. Streamline ARC proposals (no cost)

Proposals for ARC funding have become extremely long. For example, a typical Discovery Project grant proposal requesting just \$500,000 to hire a single person for 3 years will be approx. 80 pages long. Of course, in a competitive grant system, where reviewers attempt to discern the best 20–30% of proposals, some room is needed to explain the core importance and significance of the proposed research. However, ARC proposals have become far too long to write, and too long and complex for 4–7 reviewers to comprehensively read and compare to others in any efficient way. This wastes time but is also detrimental to quality and fairness: reviewers often do not read the proposals fully, so unconscious biases prevail.

There are many ways in which ARC proposals could be streamlined. **We** recommend that the ARC be tasked with conducting a community consultation about the best ways to do this, with a genuine commitment to reducing the quantity of written material to be assessed by reviewers by at least 30%. Comparison with highly-performing international systems, such as Switzerland's<sup>1</sup>,

<sup>&</sup>lt;sup>1</sup> The main grant scheme administered by the Swiss National Science Foundation, for example, includes simplified budgets (with many standardised items, like researcher hiring costs) and very brief

would also be beneficial. The ARC conducts various community consultations each year, so this measure is no-cost. However, the ARC should genuinely and directly seek input from researchers instead of only university research offices and/or members of the ARC College. Further comments about this proposal are made in the "Further details" section below.

3. A fairer, more efficient system for responding to peer reviews (no or low cost) Upon receiving peer reviews of their grant proposals, applicants may submit a rejoinder to address the reviewers' concerns. The rejoinders are available to the ARC staff and ARC College members who ultimately determine the ranking of proposals. Currently, applicants have just 3 days to alert the ARC to "inappropriate" reviewer comments, i.e. those that are manifestly "defamatory, discriminatory, biased or conflicted". Further, the ARC has no process at all for researchers to flag grossly unprofessional reviews – those not strictly "inappropriate" but which any reasonable researcher would disqualify from informing the ARC College's ranking of proposals.

To strengthen the rejoinder process and increase both its fairness and efficiency, we recommend that applicants be able to simply flag potentially "inappropriate" and/or "unprofessional" reviewer comments and respond to them separately in a supplementary rejoinder. The ARC staff and ARC College members would then judge these comments and include the supplementary rejoinder if required. This would completely avoid the need for the "3 day system" currently employed, easing the problems this creates for affected researchers, diminishing the administrative burden on the ARC, and producing a better, fairer, more collegiate rejoinder system. More details of the proposed system are provided in "Further details" below.

# 4. Put inappropriate and unprofessional reviewers on notice (no cost)

Currently, there are no real repercussions for reviewers who submit inappropriate or unprofessional reviews. Given the importance to career opportunities of gaining ARC grants, such irresponsible behaviour can completely ruin promising careers. Consequences need to be introduced to curb this behaviour and improve the peer review system for all. **We recommend three simple, no-cost means of addressing this**:

- Reviewers whose comments have been judged as inappropriate or unprofessional should be informed of this by the ARC after the grant scheme outcomes are announced.
- The ARC should publish the number of inappropriate and unprofessional reviewers at each university (broken down by grant scheme) each year. The ARC already publishes a table showing the number of reviewers at each university each year, so adding this new information would be simple: <a href="https://www.arc.gov.au/policies-strategies/policy/statement-support-assessors-within-national-competitive-grants-program/2020-assessor-data-report.">https://www.arc.gov.au/policies-strategies/policy/statement-support-assessors-within-national-competitive-grants-program/2020-assessor-data-report.</a>

curriculum vitaes of the applicants and straight-forward descriptions of their expertise and roles in the proposed project. However, much more room is given over to describing the project itself, which we do not think is necessary.

 We suggest that repeat offenders be reported to their university's Deputy Vice-Chancellor for Research, barred from reviewing applications for 2 years, and, if the behaviour continues, perhaps barred from applying for ARC funding for a period of time (e.g. 1 year), or other similar sanction.

This proposed approach would ensure that reviewers know their behaviour is inappropriate and/or unprofessional, incentivise universities to train their research staff in providing appropriate reviews, and remove repeat offenders if required.

## 5. Update Research Management System security (no or low cost)

The ARC's Research Management System (RMS) is the interface for applicants to prepare and submit grant applications. It needs to be secure, as it holds personal details, intellectual property and potentially commercial-in-confidence information. However, the user security of the RMS is questionable and out of date: it relies on mandated, frequent password changes. Modern databases holding such sensitive information use 2-factor authentication instead. We recommend a small, one-off investment in a security upgrade for RMS to move to 2-factor authentication, though it is possible that such an upgrade can be undertaken within the ARC's existing administration budget.

6. Notify applicants directly of outcomes via email (no or low cost)

Currently, applicants are not directly informed of the outcomes of their grant proposals. Instead, a list of approved grants appears on a public-facing section of the Research Management System, and the ARC issues a tweet sometime later (usually an hour or more). There is not even a user alert system within RMS to email or otherwise notify an applicant that an outcome for their grant proposal is available to view within RMS. We recommend that the RMS system be used to directly notify applicants of their outcome immediately once it is available. This should involve no cost (it should be trivial for a large database system like RMS) or may require a small upgrade.

# **Further details**

1. Fixed dates for ARC Outcomes (no cost)

A fixed outcome release date could be enacted by a simple commitment from the Minister to approve the ARC's recommendations for a grant scheme within 2 weeks<sup>2</sup>. The ARC plans a fixed time-line for each grant scheme well ahead of its opening for proposals; that is, the ARC knows when it will send its recommendations for funding to the Minister. With a 2-week approval period agreed with the Minister,

<sup>&</sup>lt;sup>2</sup> In practice, previous Ministers have often approved these recommendations within days, as shown in the records released under the ARC Senate Order, <a href="https://www.arc.gov.au/about-arc/reporting/senate-requirements/agency-grants-senate-order-arc-grant-recommendations">https://www.arc.gov.au/about-arc/reporting/senate-requirements/agency-grants-senate-order-arc-grant-recommendations</a>.

the ARC could fix and advertise the outcome date for each scheme when it first opens (or even well beforehand, to further increase certainty).

Currently, the date on which the outcomes of a grant scheme will be communicated to researchers is not specified. This prevents essential planning around staffing, equipment purchases and national and international collaborations. Without knowing when fellowship grant outcomes will be known, many applicants are forced to accept other positions, often outside Australia. This simple problem leads to numerous channels of waste, missed opportunities and uncertainty that cripple the research sector's ability and productivity, diminishing our leadership of new ideas, ventures and collaborations around the world. Some of the problems stemming from the lack of fixed ARC outcome dates were described by an Australian researcher here: <a href="https://researchwhisperer.org/2019/11/05/announcement-delays">https://researchwhisperer.org/2019/11/05/announcement-delays</a>

The simple, no-cost solution of fixing dates for ARC outcomes would provide a wealth of benefits to researchers, universities, collaborating industries and even the ARC itself. For example, fellowship applicants would know which alternative hiring opportunities to apply for, and be able to inform those employers about the time-frame. Those seeking funding for teams, or laboratories, could inform staff about the outcome dates, allowing all those staff, and their families, to plan contingencies. Universities could plan staffing loads more effectively for the flurry of activity required after outcomes are released. Industry partners could plan for contributing staff, equipment and capital. The benefits are wide-ranging and so numerous that it quickly becomes apparent how wasteful and uncertain the current system is, and how easily it can be improved.

### 2. Streamline ARC proposals (no cost)

Reducing ARC proposal lengths at least 30%, by streamlining or removing the least important parts, would recover more than 100 working years of researchers' time, each year. We therefore recommend that the ARC conducts an urgent community consultation to establish and implement the best ways to reduce the work required for ARC proposals. The highest priorities would be the largest schemes (by number of applications): Discovery Projects, Future Fellowships and Discovery Early Career Researcher Awards.

The amount of time researchers spend writing ARC proposals, and how long reviewers spend assessing them, is extraordinary. To see this, consider the approx. 3500 Discovery Project proposals submitted each year. Each one requires at least 1 month of researcher and support staff time to prepare. **That is 300 working years for this one grant scheme alone.** The three schemes listed above also have extremely low success rates: typically just one in 5 proposals are approved for funding. The scale of wasted effort in preparing and reviewing such long (80-page) proposals, most of which will not be funded, is therefore staggering. Streamlining ARC proposals is clearly paramount to increasing Australian researchers' competitiveness internationally.

#### 3. A fairer, more efficient system for responding to peer reviews (no or low cost)

ARC grants are critically important in determining a researcher's career prospects. The peer review system the ARC administers is generally robust, but it is still common to receive inappropriate and unprofessional reviews. **Receiving such an "inappropriate" review can be devastating for a researcher – it likely scuppers their proposal completely,** unless it can be identified and removed efficiently and fairly. For junior researchers, this may end their career.

The current 3-day deadline for reporting "inappropriate" reviews to the ARC is far too short. After receiving such a career-threatening review, many researchers would require significantly more than 3 days even to face the complicated administrative processes required to have it reviewed by the ARC. And such a short period discriminates precisely against the demographic groups of researchers most likely to receive such comments and those least likely, or able, to seek assistance from their universities (e.g. part-time researchers, carers, minority or marginalised groups etc.). It is also apparent that the ARC staff who judge any appeals set a very high bar for removing a review. Indeed, many researchers have shown examples of blatantly biased and discriminatory comments that clearly demonstrate that the reviewers' opinions about the grant proposal should have been entirely disqualified, but weren't.

A reviewer's biases against certain people – especially their competition – or undeclared conflicts of interest, are also often apparent in their comments. Obviously, reviews by such people should also be disqualified. But the ARC has no convincing system for this. The ARC insists that the ARC College members with carriage of a proposal will identify such "unprofessional" reviews. But with often more than 100 proposals to grade, each more than 70 pages long, it is at-least questionable that all instances of such unprofessional behaviour will be caught. This is extremely important because gaining, or failing to gain, an ARC grant often makes or breaks a researcher's career. A better system is needed.

The solution is quite simple, and will actually be more efficient, fairer and much less stressful for applicants affected by inappropriate or unprofessional reviewers.

We recommend a new rejoinder process in which applicants are able to flag reviewers as having made "inappropriate" or "unprofessional" comments. The rejoinder would be completed on the assumption those reviewers comments will be removed from the process. At the same time, applicants would also be able to submit a supplementary rejoinder, addressing the potentially "inappropriate" or "unprofessional" reviewer's comments. Reviewers flagged as having made "inappropriate" comments would be first judged by the ARC staff, as in the current system. If judged as not "inappropriate", they would be relabelled as potentially "unprofessional". Potentially "unprofessional" reviewer comments would be explicitly flagged to the ARC College members with carriage of the proposal, to assess whether a reviewer should be excluded. Any reviews by that reviewer, of any grants for that scheme, would be set aside in this case. If an ARC College carriage judges

the comments as not "unprofessional" then the review would be included and the supplementary rejoinder taken into account.

This proposed approach provides the full two-week rejoinder period for applicants to access assistance in identifying inappropriate or unprofessional reviews. It also avoids the ARC's usual objection that only 3 days can be allowed for identifying inappropriate reviews because the ARC must make a determination about the reviews in time for the applicant to complete a rejoinder in the two week period. The proposed approach would avoid the need for the ARC to consider "exceptional circumstances" where applicants were unable to meet this (for some, impossible) 3-day deadline. It would require no cost or perhaps a small cost in formulating additional guidelines and/or training for ARC College members to properly assess whether a reviewer has been "unprofessional".

# **Signatories**

The following **1007** researchers co-signed this Pre-Budget Submission prior to 13:50 (AEDT) 29 January 2021. Further signatories are being added to the live version of this submission: <a href="https://docs.google.com/document/d/1757OBU64iPFwwAB6EVTWkGpzqiziPRAkPVE\_3UMM6yM/edit?usp=sharing">https://docs.google.com/document/d/1757OBU64iPFwwAB6EVTWkGpzqiziPRAkPVE\_3UMM6yM/edit?usp=sharing</a>. Researchers have signed as individuals, not representing their universities or institutions.

Dr. A. Shaam Al Abed, Australian Capital Territory Prof. Nerilie Abram, 2016 ARC Future Fellow and 2011 ARC QEII Fellow. Australia Capital Territory Prof. Michele Acuto, Victoria Dr. Laurent Ailleres, Victoria A/Prof. Tracy Ainsworth, New South Wales A/Prof. Rola Ajjawi, Victoria Prof. David Alais, New South Wales Dr. César Albarrán-Torres, Victoria Fayaz Ali, New South Wales A/Prof. Eva Alisic, Victoria Ms. Aimee Allen, Victoria Dr. Mark Allenby, Queensland Prof. Eduardo G. Altmann, New South Wales Dr. Christopher Ames, New South Wales Prof. Barton Anderson, New South Wales Dr. Joel Anderson, Victoria Prof. Peter Anderson, Queensland Prof. Phil Andrews, Victoria Prof. Sally Andrews, New South Wales A/Prof. Daniel Angus, Queensland Dr. Kasun S. Athukorala Arachchige, Queensland ARC Future Fellow Dr. Robyn Araujo, Queensland Dr. Samuel D. Arman, South Australia Prof. Leanne Armand, Australian Capital Territory Dr. Pieter Arnold, Australian Capital Territory

Prof. Damien Arrigan, Western Australia

Prof. Michael Ashley, New South Wales

Prof. Sassan Asgari, Queensland

**Territory** 

Prof. Owen Atkin, Australian Capital

Prof. Rob Atkin, Western Australia Dr. John Attridge, New South Wales A/Prof. Jeremy Austin, South Australia Dr. Wael Awad, Victoria Dr. Melanie Baak, South Australia Dr. Richard Bade, South Australia Dr. Marnie Badham, Victoria Dr. Shanaka Kristombu Baduge, Victoria Francisco Martínez Baena, Victoria Dr. Mark Bahnisch, New South Wales Prof. Matthew Bailes, Victoria Dr. James Baker, New South Wales Dr. Jeannine Baker, New South Wales Prof. Sarah Baker, Queensland Prof. Claudia Baldwin, Queensland Prof. Timothy Baldwin, Victoria A/Prof. Graham Ball, New South Wales Dr. Christina Ballico, Queensland Dr. Alda Balthrop-Lewis, Victoria Prof. Han Baltussen, South Australia Prof. Maria Garcia de la Banda, Professor of Information Technology, Victoria Dr. Saeed Banihashemi, Australian **Capital Territory** Prof. Hari Bapuji, Victoria Dr. Leah Barclay, Queensland A/Prof. Thomas Barker, Selangor, Malaysia Dr. Diana G. Barnes, New South Wales Dr. Naomi Barnes, Queensland Prof. Adrian Barnett, Queensland Dr. Cameron Barr, South Australia Prof. Stuart Batten, Victoria Dr. Thomas Baudinette, New South Wales Dr. Jumana Bayeh, New South Wales Dr. Philipp Bayer, Western Australia

Prof. Monika Bednarek. New South Wales

A/Prof. Stephen Bell, South Australia

Dr. Sabine Bellstedt, Western Australia

Dr. Daniel Bennett, Victoria

Dr. Boris Beranger, New South Wales

A/Prof. Julian Berengut, New South Wales

A/Prof. Bettina Berger, South Australia

Dr. John Betts. Victoria

Dr. Christiaan De Beukelaer, Victoria

A/Prof. Jonathon Beves, New South Wales

Dr. Seweryn Bialasiewicz, Queensland

Dr. Britta Biedermann, Western Australia

Dr. Rosey Billington, Victoria

A/Prof. Damian Birney, New South Wales

Dr. Bhaba Biswas, South Australia

Dr. Andrew Black, South Australia

Prof. Mindy Blaise, Western Australia

Dr. Khandis Blake, Victoria

Prof. Roland Bleiker, Queensland

Dr. Nathan Boase, Queensland

Dr. Scott Boden, South Australia

Dr. Catherine A. Boisvert, Western Australia

Dr. Mario Boley, Victoria

Dr. Bart Bolsterlee, New South Wales

Dr. Timothee Bonnet, Australian Capital Territory

A/Prof. Colette Boskovic, Victoria

Dr. Douglas Boubert, Victoria

Dr. David Boutelier, New South Wales

A/Prof. Josephine Bowles, Queensland

Prof. Jodie Bradby, Australian Capital Territory

A/Prof. Timothy Bredy, Queensland

Dr. Martin Breed, South Australia

Dr. Ian Brennan, Australian Capital Territory

Dr. André Brett, New South Wales

Dr. Thomas Britz, New South Wales

Dr. Aidan Brock, Queensland

Dr. Joseph Brock, Australian Capital Territory

Prof. Lindell Bromham, Australian Capital Territory

Dr. Michael Bromley, Queensland

Dr. Andrew Brooks, Queensland

Scientia Prof. Rob Brooks, New South Wales

Prof. Sarah Brough, New South Wales

Dr. Chris J Brown, Queensland

A/Prof. Michael Brown, Victoria

Dr. Caspar de Bruin-Dickason, New South Wales

Prof. Axel Bruns. Queensland

Dr. Gareth Bryant, New South Wales

A/Prof. Bruce Buchan, Queensland

Prof. Kate Buchanan, Victoria

Prof. Wray Buntine, Victoria

Prof. Anthony Burke, Australian Capital Territory

Dr. Antony Burnham, Australian Capital Territory

Dr. Alexander George Burns, Victoria

Dr. Matthew Butler, Victoria

Dr. Terry Byers, Queensland

Dr. Kylie Cairns, New South Wales

Dr. Aaron Camens, South Australia

Ms. Tara-Lyn Camilleri-Carter, Victoria

Dr. Micheline Campbell, Dublin, Ireland

Dr. Simon Campbell, Victoria

Dr. Daniel Canaris, New South Wales

Dr. Justin Canty, Tasmania

Dr. Fabio A. Capitanio, Victoria

A/Prof. Helen Caple, New South Wales

A/Prof. Colin Caprani, Victoria

Dr. Graziella Caprarelli FAIG, Queensland

Dr. Nicolás Younes Cardenas, Australian Capital Territory

Dr. Susan Carland, Victoria

Dr. Melanie Carmody, Australian Capital Territory

Dr. Joel Carpenter, 2018 ARC DECRA Fellow, Queensland

Dr. Sofia Samper Carro, Australian Capital Territory

Dr. Matthew J. Carroll, Australian Capital Territory

Dr. Elizabeth Carter, New South Wales

Dr. Marcus Carter, New South Wales

Prof. Ian Cartwright, Victoria

Dr. Andy Casey, Victoria

Dr. Phill Cassey, South Australia

Prof. Megan Cassidy-Welch, Queensland

Prof. Anne Castles, New South Wales

A/Prof. Barbara Catinella, Western Australia

Dr. Renee Catullo, Western Australia

Dr. David Chalmers. Victoria

Dr. Matthew S. Champion, Victoria

A/Prof. Michael Champion, Victoria

Dr. Cheong Xin Chan, Queensland

Dr. Yao-ban Chan, Victoria

Dr. Rohitash Chandra, New South Wales

Dr. Robert Chapman, New South Wales

A/Prof. David Chapple, Victoria

Dr. Alienor Chauvenet, Queensland

Dr. Yung En Chee, VictoriaTORIA

Dr. Seth Cheetham, Queensland

Prof. Alex Chen, Queensland

Dr. Chunyang Chen, Victoria

A/Prof. Brendan Choat, New South Wales

Dr. Tom Chodor, Victoria

Dr. Yit Heng Chooi, Western Australia

Dr. Shiao Huey Chow, Victoria

Dr. Hoam Chung, Victoria

Dr. Brendan Churchill, Victoria

Prof. Chris Clark, Western Australia

Prof. Jack Clegg, Queensland

Dr. Kelly Clemens, New South Wales

Dr. Alice Clement, South Australia

Dr. Jennifer Clutterbuck, Queensland

Dr. Onoriode Coast, Australian Capital Territory

Dr. Julia Coffey, New South Wales

Prof. Lachlan Coin, Victoria

Prof. Jared Cole, Victoria

Prof. Matthew Colless, Australian Capital Territory

Prof. Alex Collie, ARC Future Fellow (2020), Victoria

Prof. Brett Collins, Queensland

Dr. Rebecca Colvin, Australian Capital Territory

A/Prof. James Connor, New South Wales

Dr. Carly Cook, Victoria

Prof. Dianne Cook, Victoria

Prof. James Cook, New South Wales

Madeleine Cooke, Victoria

Dr. Jacqueline Coombe, Victoria

Prof. Michelle Coote, Australian Capital Territory

Prof. Susan Coppersmith, New South Wales

Dr. Simon Corrie, Victoria

A/Prof. Luca Cortese, Western Australia

Dr. Alysson M. Costa, Victoria

Dr. Daniel V. Cotton, New South Wales

Prof. Michael Cowling, New South Wales

Prof. Vincent Craig, Australian Capital Territory

A/Prof. Matthew R. Crawford, Victoria

Dr. Daniel Creedon, Victoria

Dr. Laura Crommelin, New South Wales

Dr. Simon J. Cropper, Victoria

Prof. Emily S. Cross, New South Wales

A/Prof. Mathew Crowther, New South

Dr. Katherine Cullerton, Queensland

Prof. J. Shane Culpepper, Victoria

Prof. Louise D'Arcens, New South Wales

Dr. Kari Dahlgren, Victoria

Dr. Heather Dalton FRHistS, 2014 ARC
Discovery Early Career Award, Victoria

Dr. Stephen Dann, Australian Capital Territory

Dr. Donald Dansereau, New South Wales

Prof. Bruno David, Victoria

Prof. Chris Davies, Victoria

Dr. Alexander E. Davis, Western Australia

Prof. Jeffrey Davis, Victoria

Prof. Matthew Davis, Queensland

Prof. Tamara Davis, Queensland

Dr. Kate Davison, Victoria

Prof. Judith Dawes, New South Wales

Prof. Phillip Dawson, Victoria

Prof. Janine Deakin, Australian Capital Territory

Dr. Rebecca Defina, Victoria

Dr. Sara Dehm, New South Wales

Dr. Raffaella Demichelis, Western Australia

Dr. Evelyne Deplazes, New South Wales

Dr. Nicholas Deutscher, New South Wales

Dr. Simon Devitt, New South Wales

A/Prof. Haryana Dhillon, New South

Prof. Serena Dipierro, Professor of Mathematics, Western Australia

A/Prof. Mahdi Disfani, Victoria

Dr. Sally Dixon, New South Wales

Dr. Tim Doherty, New South Wales

A/Prof. William Donald, New South Wales

Dr. Jennifer Donelson, Queensland

Dr. Yaegan Doran, New South Wales

Prof. Assa Doron, Australian Capital Territory

Dr. Annette Dowd, New South Wales

A/Prof. Barry Doyle, Western Australia

Prof. Catherine Driscoll, New South Wales

Dr. Sebastian Duchene, Victoria

Dr. Brendan Duffy, Victoria

Dr. David Duncan, Victoria

Dr. James Dunk, New South Wales

Dr. Patrick Dunlop, Western Australia

Prof. Jason Dutton, Victoria

Dr. James Van Dyke, Victoria

A/Prof. Antony Eagle, South Australia

A/Prof. Hazel Easthope, New South Wales

ARC Future Fellow A/Prof. Ullrich Ecker,

Western Australia

Prof. Robyn Eckersley, Victoria

Dr. Benjamin Edsall, Victoria

Prof. Robert Edwards, South Australia

Prof. Ulrik Egede, Victoria

Dr. Rochelle Einboden, New South Wales

Dr. Raphael Eisenhofer, South Australia

Dr. Katie Ekberg, Queensland

Dr. Stuart Ekberg, Queensland

Prof. Erik Eklund, Victoria

Dr. David Ellison, Queensland

Prof. Michael Ellwood, Australian Capital Territory

Prof. Nick Enfield, New South Wales

A/Prof. Selen Ercan, Australian Capital Territory

A/Prof. Anna Eriksson, Victoria

Prof. Drew Evans, South Australia

A/Prof. Joanne Evans, Victoria

Dr. Megan Evans, Australian Capital Territory

Dr. Arun Everest-Dass, Queensland

Dr. Adam Ewing, Queensland

A/Prof. Nir Eynon, Victoria

Prof. Tim Bedding FAA, New South Wales

Dr. Omid Fakhri, Victoria

Dr. Benjamin Farmer, Victoria

Prof. Karen Farquharson, Victoria

Dr. Brooke Farrugia, Victoria

Prof. Alan David Fekete, New South Wales

Dr. Susan Baidawi, 2019 ARC DECRA Fellow, Victoria

A/Prof. Will Felps, New South Wales

A/Prof. Belinda Ferrari, New South Wales

Prof. Matthew P. Fitzpatrick, South Australia

Dr. Kathleen Flanagan, Tasmania

Dr. Andrew Flies, Tasmania

Dr. Caroline Foster. New South Wales

Prof. Marcus Foth, Queensland

Nicholas Fountain-Jones, Tasmania

Dr. Jodi Fox, Tasmania

Dr. Anke Frank, New South Wales

Dr. Terry Frankcombe, Australian Capital Territory

Dr. Ursula Frederick, Australian Capital Territory

Dr. Cristina Garduno Freeman, Victoria

A/Prof. Catherine Frieman, Australian Capital Territory

Prof. Michael S. Fuhrer, Victoria

Prof. Christophe Fumeaux, South Australia

Dr. Sebastian Furness, Victoria

A/Prof. Alice Gaby, Victoria

A/Prof. Frederic Gachon, Queensland

Dr. Sarah Gador-Whyte, Victoria

Prof. Marylene Gagne, Western Australia

A/Prof. Duncan Galloway, Victoria

Dr. Ruth Gamble, Victoria

Dr. Diep Ganguly, Australian Capital Territory

Dr. Julian Garcia, Victoria

Dr. Jillian Garvey, Victoria

Prof. Dragan Gasevic, Victoria

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