

# Ryan P. O'Donnell

PHD STUDENT

Research School of Biology, Australian National University

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## 🏛️ Education

### Doctor of Philosophy (Ecology & Evolution)

AUSTRALIAN NATIONAL UNIVERSITY

2022–present

### Master of Scientific Studies (Biodiversity Science)

UNIVERSITY OF NEW ENGLAND

2019–2021

### Graduate Certificate in Science (Biodiversity Science)

UNIVERSITY OF NEW ENGLAND

2018–2019

### Bachelor of Music (Performance: Classical Voice)

SYDNEY CONSERVATORIUM OF MUSIC

2014–2017

### Bachelor of Arts in Communication (Media Arts and Production)

UNIVERSITY OF TECHNOLOGY SYDNEY

2011–2013

## 🧠 Skills

**ANALYTICAL:** PHYLOGENOMICS • POPULATION GENETICS • MORPHOLOGICAL PHENETICS • DATA VISUALISATION

**COMMUNICATIONS:** GRAPHIC DESIGN • PHOTOGRAPHY • VIDEO PRODUCTION • BOTANICAL ILLUSTRATION

**FIELD + LAB:** PLANT IDENTIFICATION AND TAXONOMY • FUNGAL ISOLATION AND CULTURING

**PROGRAMMING:** R • BASH/UNIX • LATEX

## 🏆 Grants

### National Taxonomy Research Grant Program (NTGRP)

AUSTRALIAN BIOLOGICAL RESOURCES STUDY (ABRS)

• Systematics of Australian mycorrhizal *Ceratobasidium* (Ceratobasidiaceae)

2023

\$16,818

### RSB Seed Funding Grant

AUSTRALIAN NATIONAL UNIVERSITY, RESEARCH SCHOOL OF BIOLOGY

• Evolutionary and population ecology of *Pterostylis* (Orchidaceae) and their fungal symbionts (*Ceratobasidium*, Ceratobasidiaceae)

2022

\$15,000

### AOF Research Grant 348/22

AUSTRALIAN ORCHID FOUNDATION

• The evolution and diversification of the Australian Diurideae: Understanding the influence of genome size and chromosome number (project cancelled and funds returned due to poor field season)

2022

\$10,000

### Hansjörg Eichler Scientific Research Fund

AUSTRALASIAN SYSTEMATIC BOTANY SOCIETY

• An integrative taxonomic study of the *Pterostylis macrosepala* (D.L.Jones) G.N.Backh. complex (Orchidaceae; Pterostylidinae)

2022

\$5,000

### N.C.W. Beadle Scholarship in Botany

UNIVERSITY OF NEW ENGLAND

2020

\$1,000

## 📖 Peer-Reviewed Publications

### FIRST-AUTHOR

**O'Donnell RP**, Bruhl JJ, Telford IR, Wilson TC, Zimmer H, Taseski GM, Andrew RL (2023) Molecular and morphological analyses support recognition of *Prostanthera volucris* (Lamiaceae), a new species from the Central Tablelands of New South Wales. *Australian Systematic Botany* 36, 1:1–20. doi:10.1071/SB22017.

**O'Donnell RP**, Wilson TC, Andrew RL, Telford IR, Taseski GM, Zimmer H, Bruhl JJ (2021) Molecular phylogenetic analysis of the *Prostanthera phyllicifolia* (Lamiaceae) assemblage resolves relationships of the 'Critically Endangered' *P. gilesii* and other putative new species. *Telopea* 24, 359–375. doi:10.7751/telopea15561.

### CO-AUTHOR

Hyde KD ... Zucconi L (2023) Global consortium for the classification of fungi and fungus-like taxa. *Mycosphere* 14, 1:1960–2012. doi:10.5943/mycosphere/14/1/23.

## 📖 Preprints

**O'Donnell RP**, Bruhl JJ, Telford IR, Wilson TC, Zimmer H, Taseski GM, Andrew RL (accepted 2023) Molecular and morphological analyses support recognition of *Prostanthera volucris* (Lamiaceae), a new species from the Central Tablelands of New South

## Other Publications

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**O'Donnell RP** (2022) Book Review: Presenting Science Concisely - Bruce Kirchoff. Australasian Systematic Botany Society Newsletter. 190: 27–28.

**O'Donnell RP** (2022) *Love Thy Neighbour* Science Write Now #6: Natural History and Historians

**O'Donnell RP** (2021) *Love Thy Neighbour* Boundless Writers Festival 2021

**O'Donnell RP** (2021) Selling systematics with storytelling: solving taxonomy's marketing problem. Australasian Systematic Botany Society Newsletter. 188: 29–30.

**O'Donnell RP** (2012) *John A Douglas - Body Fluid - The Seven Cycles* Exhibition essay - Chalkhorse Gallery

**O'Donnell RP** (2012) *James Oram - Moments of Must Have* Exhibition essay - Chalkhorse Gallery

## Conference Presentations

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**O'Donnell RP**, Linde CC, May TW (2023) "Rise up, *Rhizoctonia*: moving to one fungus, one name in the Ceratobasidiaceae (Agaricomycetes; Cantharellales)". Biosystematics 2023, 26–30 November 2023.

**O'Donnell RP**, Wong DJ, Peakall R, Phillips RD, Linde CC (2022) "Detangling the Diurideae: Phylogenomics and fungal symbionts provide an updated evolutionary framework". Australasian Evolution Society 2022, 14–16 December 2022.

**O'Donnell RP**, Wong DJ, Peakall R, Phillips RD, Linde CC (2022) "Detangling the Diurideae: Phylogenomics and fungal symbionts provide an updated evolutionary framework". Australasian Systematic Botany Society EMCR Conference 2022, 15–16 November 2022.

**O'Donnell RP**, Andrew RL, Telford IR, Wilson TC, Zimmer H, Taseski GM, Bruhl JJ (2021) "Morphological and molecular evidence aid resolution of *Prostanthera phyllicifolia* s. l. (Lamiaceae)". Australasian Systematic Botany Society Annual Conference 2021, 12–16 July 2021. *Runner up: Pauline Ladiges Prize for best student presentation.*

## Other Presentations & Panels

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**Invited Speaker & Panelist:** *'An Evening With 500 Queer Scientists'* World Pride 2023

**Presenter:** *'Walks & Talks: Orchids From Australia & Abroad'* 13/08/2022

**Presenter:** *'Rare Plants - Large and Small'* with *Costa Georgiadis* 12/05/2021

**Panelist:** *Reel Science: Plants - Sydney Science Trail/National Science Week* 21/08/2021

## Teaching

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### AUSTRALIAN NATIONAL UNIVERSITY

2023 S1 **BIOL8291:** Research Presentation Skills

2022 S2 **BIOL3207/BIOL6207:** Data Science for Biologists

2022 S2 **BIOL2114/BIOL6114:** Evolution

## Awards & Scholarships

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2023 ANU University-Wide 3-Minute Thesis (3MT) Competition Grand Finalist

2023 ANU College of Science 3-Minute Thesis (3MT) Competition: First Place

2022 ANU Research School of Biology 3-Minute Thesis (3MT) Competition: People's Choice Award

2022 ANU Research School of Biology 3-Minute Thesis (3MT) Competition: Runner Up Prize

2022 Australian Government Research Training Program Scholarship (2022–2025)

2021 University of New England Vice-Chancellor's Scholar

2017 Berlin Opera Academy Robert Earl White Memorial Scholarship

2017 Berlin Opera Academy Elizabeth Luxon Memorial Scholarship

2017 Pacific Opera Young Artist Scholarship

2016 Estivo European Chamber Music Summer School Scholarship

2015 Best Comedic Film: Tampa Bay Underground Film Festival

2014 Best Short Film: Melbourne Underground Film Festival

2012 Firstdraft Gallery Emerging Writers Residency

2010 University of Sydney Kathleen Garnham Laurence Prize for Fine Arts



## Media

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**Radio Interview:** *ABC Radio, Science Friction with Natasha Mitchell 'World Pride 2023 - Love Your Nature' 17/02/2023*

**Radio Interview:** *ABC Radio Evenings with Christine Anu 21/8/2021*

**Podcast Interview:** *Royal Botanic Garden Sydney 'Branch Out' Podcast - Starting in Science*

**Interview:** *The Music, With Sylvie*

**Interview:** *University of New England, #StudyLifeUNE*



## Exhibitions

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2021 **The Margaret Flockton Award**



## Professional Memberships

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2020–present **Australasian Systematic Botany Society**