Dr Ananthan Ambikairajah

Neuroscientist. Educator. Science Communicator.
ananthan.ambikairajah@canberra.edu.au ananthanambikairajah.com

CAREER OBJECTIVE

My career objective is to work in an intellectually challenging environment that combines my passion for research, teaching and science communication, as well as enriched opportunities to be a lifelong learner.

MISSION STATEMENT

I am determined and committed to:

- Conduct high quality research investigating genetic, environmental and lifestyle factors which influence ageing, brain health and disease, with a particular focus on sex-specific determinants.
- Enhance student motivation and engagement to promote positive learning experiences and outcomes which foster a love of learning and facilitates a journey of personal growth and self-discovery.
- Communicate science with a focus on making it accessible, understandable and interesting, which can spark public engagement, facilitate critical thinking and encourage respectful discourse.

CURRENT ROLES

EMPLOYMENT

Lecturer 2021 to date

University of Canberra - Faculty of Health, Discipline of Psychology

OTHER ROLES

Review Editor 2023 to date

Frontiers in Aging Neuroscience - Alzheimer's Disease and Related Dementias

Teacher and Developer - Software, Data and Library Carpentry 2020 to date

The Carpentries

Podcast Presenter 2018 to date

Midnight Conversations

EDUCATION

Doctor of Philosophy (PhD) 2018 to 2022

Australian National University - Research School of Population Health

Thesis

Master of Teaching (Secondary) Science Double Method Specialisation 2016 to 2017

University of New South Wales - School of Education

Weighted Average Mark: 85.78 (High Distinction Average)

Bachelor of Science (Neuroscience) 2012 to 2015

University of New South Wales - School of Medical Science

Weighted Average Mark: 75.81 (Distinction Average)

FELLOWSHIP STATUS

Fellow (FHEA) 2023 to date

Advance Higher Education

Visiting Fellow 2022 to date

Australian National University - College of Health and Medicine

PUBLICATIONS

My PhD was awarded and conferred on the 14th of July, 2022. As of 5th January, 2024, I have published 13 papers (9 first authored), which have been cited 394 times (H-index 7, Google Scholar), one of which with a FWCI of 6.39 (average 2.17, 33% of publications in top 10% most cited publications worldwide, 83.3% Q1, 100% Q1/Q2, from 2019 to 2022, SciVal).

1. **Ambikairajah, A.**, Khondoker, M., Morris, E., de Lange, A. M. G., Saleh, R. N. M., Minihane, A. M.,& Hornberger, M. (2024). Investigating the synergistic effects of hormone replacement therapy, apolipoprotein E and age on brain health in the UK Biobank. *Human Brain Mapping*, *45*(2), e26612. doi: https://doi.org/10.1002/hbm.26612
2. Cherbuin, N.; Patel, H.; Walsh, E.I.; **Ambikairajah, A.**; Burns, R.; Brüstle, A.; Rasmussen, L.J. (2024). Cognitive Function Is Associated with the Genetically Determined Efficiency of DNA Repair Mechanisms. *Genes*, *15*, 153. doi: https://doi.org/10.3389/fgwh.2023.1320640
3. Schindler, L. S., Subramaniapillai, S., **Ambikairajah, A.**, Barth, C., Crestol, A., Voldsbekk, I., Beck, D., Gurholt, T. P., Topiwala, A., Suri, S., Ebmeier, K. P., Andreassen, O. A., Draganski, B., Westlye, L. T., & de Lange, A. M. G. (2023). Cardiometabolic health across menopausal years is linked to white matter hyperintensities up to a decade later. *Frontiers in Global Women's Health*, *4*, 1320640.doi: 10.3389/fgwh.2023.1320640
4. Namsrai, T., **Ambikairajah, A.** & Cherbuin, N. (2023). Poorer sleep impairs brain health at midlife. *Scientific Reports*, *13*(1), 1-10. doi:10.1038/s41598-023-27913-9
5. **Ambikairajah, A.**, Walsh, E., & Cherbuin, N. (2022). A review of menopause nomenclature. *Reproductive Health*, *19*(1), 1-15. doi:10.1186/s12978-022-01336-7
6. **Ambikairajah, A.**, Tabatabaei-Jafari, H., Hornberger, M., & Cherbuin, N. (2021). Age, menstruation history, and the brain. *Menopause*, *28*(2), 167-174. doi:10.1097/GME.0000000000001688
7. **Ambikairajah, A.**, Ambikairajah, R., & Ambikairajah, E. (2021). The impact of improving feelings of relatedness on motivation and engagement for tertiary students. *International Journal of Mathematical Education in Science and Technology*, *52*(5), 721-730. doi:10.1080/0020739X.2019.1703149
8. **Ambikairajah, A.**, Tabatabaei-Jafari, H., Walsh, E., Hornberger, M., & Cherbuin, N. (2020). Longitudinal changes in fat mass and the hippocampus. *Obesity*, *28*(7), 1263-1269. doi:10.1002/oby.22819
9. **Ambikairajah, A.**, Walsh, E., & Cherbuin, N. (2019). Lipid profile differences during menopause: a review with meta-analysis. *Menopause*, *26*(11), 1327-1333. doi:10.1097/GME.0000000000001403
10. **Ambikairajah, A.**, Walsh, E., Tabatabaei-Jafari, H., & Cherbuin, N. (2019). Fat mass changes during menopause: a metaanalysis. *American Journal of Obstetrics & Gynecology*, *221*(5), 393-409. doi:10.1016/j.ajog.2019.04.023
11. **Ambikairajah, A.**, & Tisdell, C. C. (2019). E-Examinations and the Student Experience Regarding Appropriateness of Assessment and Course Quality in Science and Medical Science. *Journal of Educational Technology Systems*, *47*(4), 460-478. doi:10.1177/0047239518822016
12. Low, J. K., **Ambikairajah, A.**, Shang, K., Brown, D. A., Tsai, V. W., Breit, S. N., & Karl, T. (2017). First behavioural characterisation of a knockout mouse model for the transforming growth factor (TGF)-β superfamily cytokine, MIC-1/GDF15. *PloS one*, *12*(1), e0168416. doi:10.1371/journal.pone.0168416

13. **Ambikairajah, A.,** Devenney, E., Flanagan, E., Yew, B., Mioshi, E., Kiernan, M. C., Hodges, J. R., & Hornberger, M. (2014). A visual MRI atrophy rating scale for the amyotrophic lateral sclerosis-frontotemporal dementia continuum. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, *15*(3-4), 226-234. doi:10.3109/21678421.2014.880180

CONFERENCE ORAL PRESENTATIONS

INTERNATIONAL

1. **Ambikairajah A.**, Tisdell C. (2020). Algorithms and software - Using Maple in humanities related assessment: Exploring beyond mathematical boundaries in education. Presentation accepted for the *Maple Conference*, Online.
2. **Ambikairajah A.**, Tisdell C. (2018). The Effects of E-Examinations on Student Satisfaction Regarding Appropriateness of Assessment and Course Quality in Science and Medical Science. Presentation accepted for the *International Mobile Learning Festival*, Mobile Learning, STEM and Transdisciplinary Education, Singapore.

NATIONAL

1. **Ambikairajah A.**, Khondoker M., Morris E., de Lange A., Saleh R., Minihane A., Hornberger M. (2023). Investigating the Synergistic Effects of Hormone Replacement Therapy, APOE and Age on Brain Health. Presentation accepted for the *21st National Conference of Emerging Researchers in Ageing*, Online.
2. **Ambikairajah A.**(2023). Genetics, hormones and brain health - the curious case of the null result. Ask the ERA Brains Trust Presentation accepted for the *21st National Conference of Emerging Researchers in Ageing*, Online.
3. **Ambikairajah A.** (2018). Being Courageous: Exploring new approaches to improve and expand learning experiences - A Practical Framework for Courageousness in Teaching. Presentation accepted for the *Learning and Teaching Forum, Partners in Learning: Connecting Communities*, University of New South Wales, Australia.
4. **Ambikairajah A.** (2018). Being Courageous: Exploring new approaches to improve and expand learning experiences - A Practical Framework for Courageousness in Teaching. Presentation accepted for the *Learning and Teaching Forum, Partners in Learning: Connecting Communities*, University of New South Wales, Australia.
5. **Ambikairajah A.** (2017). Inspired Learning by Inspired Teaching - Quality student relationships can predict excellence in leaning and teaching. Presentation accepted for the *Learning and Teaching Forum, Educational Excellence: Transforming Futures*, University of New South Wales, Australia.

CONFERENCE ABSTRACT AND POSTER PUBLICATIONS

INTERNATIONAL

1. Schindler L., Subramaniapillai S., **Ambikairajah A.**, Barth C., Voldsbekk I., Beck D., Gurholt T., Topiwala A., Suri S., Ebmeier K., Draganski B., Andreassen O., Westlye L., de Lange A. (2023). Body Composition Changes Across The Menopause Transition And Their Association With White Matter Hyperintensities: A Longitudinal Study. Abstract and poster accepted for the *48th Annual Conference Psychologie & Gehirn*, University of Tübingen, Germany.
2. Cherbuin N., Namsrai T., **Ambikairajah A.** (2022). Good sleep, healthy brain, and sharp mind all dream together. Abstract and poster accepted for the *28th Annual Meeting of the Organisation for Human Brain Mapping*, OHBM, Scotland.

NATIONAL

1. **Ambikairajah A.**, Tisdell C. (2016). Changing how we think about teaching - A reflection of the Pilot Active Learning Spaces (PALS) initiative. Abstract accepted for the *Learning and Teaching Forum, Towards 2025: Inspiring Learning*, University of New South Wales, Australia.

STUDENT SUPERVISION

PHD

1. [redacted] - Associate supervisor 2022 to date
   Australian National University
2. [redacted] - Associate Supervisor 2021 to date
   Australian National University

MASTERS

1. [redacted] - Co-supervisor 2020
   Australian National University
   Thesis mark: 80; Final Grade Point Average: 6.69 (Distinction)

HONOURS

1. [redacted] - Primary supervisor 2024
   University of Canberra
2. [redacted] - Primary supervisor 2024
   University of Canberra
3. [redacted] - Primary supervisor 2024
   University of Canberra
4. [redacted] - Primary supervisor 2024
   University of Canberra
5. [redacted] - Primary supervisor 2023
   University of Canberra
6. [redacted] - Primary supervisor 2023
   University of Canberra
   Thesis Mark: 78; Final grade: 78 (Distinction Honours IIa)
7. [redacted] - Primary supervisor 2022
   University of Canberra
   Thesis Mark: 88; Final grade: 90 (High Distinction Honours I)
   2022 Australian Psychological Society Prize Winner
8. [redacted] - Primary supervisor 2022
   University of Canberra
   Thesis Mark: 72; Final grade: 78 (Distinction Honours IIa)
9. [redacted] - Primary supervisor 2022
   University of Canberra
   Thesis Mark: 70; Final grade: 73 (Credit Honours IIb)

AWARDS

I am the recipient of 4 competitive grant/scholarship funding awards totalling $116437, 2 research presentation awards totalling $500, in addition to awards for excellence in teaching and academics.

UC ReD IGNITE Program 2024 - 2025

University of Canberra

I was accepted for the highly competitive UC ReD IGNITE (University of Canberra Researcher Development: Instilling Growth and Nurturing Innovation through Training and Education) Program, which includes a $10,000 research grant to support my research program, in addition to formal mentorship and research training.

Award for Excellence in Teaching - Student Award 2023

University of Canberra - Faculty of Health

I received an award for excellence in teaching, which was a student nominated award. This award recognises individuals who have excelled in their teaching and who have made outstanding contributions to learning and teaching at the University of Canberra.

Project Funds 2023 to 2024

University of Canberra - Faculty of Health

I was successful in receiving $6000 of funding from the Faculty of Health to cover the cost of a 1 year extension to access the UK Biobank dataset for the completion of an existing research project.

Best ERA 2023 Oral Presentation by a member of the Australian Association of Gerontology 2023

21st National Conference of Emerging Researchers in Ageing

I was awarded a prize to the value of $250 and a certificate as my conference presentation was considered by the judging panel to be the best oral presentation by a member of the Australian Association of Gerontology at the 21st National Conference of Emerging Researchers in Ageing.

Rapid Fire Research Presentation Award 2023

University of Canberra - Faculty of Health

I was awarded $250 (3rd place) for my research presentation titled "Genetics, hormones and brain health, the curious case of the null result".

Commendation for Excellence in Teaching - Student Award 2022

University of Canberra - Faculty of Health

I received a commendation for excellence in teaching, which was a student nominated award. This award recognises individuals who have excelled in their teaching and who have made outstanding contributions to learning and teaching at the University of Canberra.

Excellence in Learning and Teaching Indigenising the Curriculum 2022

University of Canberra - Faculty of Health

As part of the Discipline of Psychology Team, I contributed to the Indigenisation of the Psychology Curriculum through collaboration with colleagues and Indigenous Australians via a series of yarning circles.

Nominated for the ANU Medical School Education Award for Excellence in Tutoring 2020

Australian National University

Anonymous nomination comment: "Ananthan's vibrant and interactive tutoring style made it easy and fun to learn. He takes an active interest in students' lives, teaches with humour and fosters open and non-judgemental discussion, encouraging learning for all. He made the content understandable and interesting,

re-invigorating our interest in population health. He allowed us to self-direct our learning, facilitated our discussions, and created welcoming and enjoyable tutorials. This helped us to consolidate our knowledge and memories of our fun conversations helped immensely when recalling content throughout exams. He was an outstanding tutor, even throughout the difficulties of online learning, and we cannot recommend him enough for this award. His passion for teaching made learning a lot easier and interesting!"

Complex Human Data Summer School Scholarship 2019

University of Melbourne

The Complex Human Data Summer School (CHDSS) Scholarship was a one off payment, valued at $500, which covered the cost of travel and/or accomodation. Across 6 consecutive days, the CHDSS covered topics that included programming in R, reproducibility and open science, GitHub, bayesian data analysis, best practices for running online studies, experience sampling, probabilistic models of cognition, exploratory data analysis and generalised linear models.

Research to Impact Scholarship 2018

Canberra Innovation Network

The Research to Impact Scholarship was a one off payment, valued at $2000, which covered the cost of 4 half-day workshops that covered areas such as (1) innovation essentials and finding market need, (2) Value propositions for big impact, (3) Business models, value chain and collaboration and (4) Pitching for outcomes and building your pitch-deck. In addition to this, the program involved intensive self-study before each workshop and a one on one follow up session.

Australian Government Research Training Program Domestic Scholarship 2018 to 2021

Australian National University

The Australian Government Research Training Program (AGRTP) Domestic Scholarship was a fortnightly payment leading to a sum of $83946, over 3 years, with an additional $13991 top up for 6 months. The AGRTP Fee-Offset Scholarship covers the full tuition fees for 3 years.

Dean's List for Academic Excellence 2017

University of New South Wales - Faculty of Arts and Social Sciences

The Dean's List for Academic Excellence is awarded to students that have maintained a High Distinction Weighted Average Mark.

RESEARCH GROUP/LAB MEMBERSHIPS

FemiLab Associated Team Member 2022 to date

Lausanne University Hospital

Head of Ambikairajah Lab 2021 to date

University of Canberra - Faculty of Health

Ageing Research Group Core Member 2021 to date

University of Canberra - Ageing Research Group

Australian Association of Gerontology Member 2019 - 2020; 2022 to date

Australian Association of Gerontology

NeuroIMaging and Brain Lab (NIMBL) Member 2017 to date

Australian National University - Centre for Research on Ageing, Health and Wellbeing

ForeFront - Frontier Member 2012 to 2015

Neuroscience Research Australia

PROFESSIONAL EXPERIENCE IN RESEARCH

Lecturer 2021 to date

The University of Canberra - Faculty of Health, Discipline of Psychology

At the University of Canberra, I am employed as a Lecturer. In this role I am responsible for:

- Developing an active research program including seeking external funding, conducting research and publishing.
- Supervising students' research projects at honours and postgraduate levels.

Researcher for Burns Group 2020

Australian National University - Centre for Research on Ageing, Health and Wellbeing

With Dr Richard Burns, my role was to work conduct a literature review for a consultancy report for *Exhale*, which focused on domains related to mental and physical health and wellbeing. In this role I was responsible for:

- Conducting a literature review on domains related to health and wellbeing.
- Writing a report that explained the findings of the review in a digestible and understandable way to a non-scientific audience.

Researcher for Cherbuin Group 2017 to 2020

Australian National University - Neuroimaging Brain Lab (NIMBL)

With Professor Nicolas Cherbuin, my role was to work collaboratively with a team on a systematic review and meta-analysis. This project allowed me to develop fundamental research skills required by a first year PhD student, including:

- Collating papers through a systematic search of online databases.
- Conducting title, abstract and full text screening.
- Extracting and analysing data, using the statistical package, R.

Researcher for Tisdell Group 2016

University of New South Wales - Science Learning and Teaching Unit

With Professor Chris Tisdell, my role was to conduct self-directed work on a pre-established education project, which investigated the effectiveness of electronic examinations on the student learning experience. This project led to a first-author paper publication. In this role, I was responsible for:

- Analysing the data.
- Writing a manuscript for the research project.

Research Volunteer for Piguet Group 2014 to 2015

Neuroscience Research Australia - Neurodegenerative Diseases

My work with Professor Olivier Piguet enabled me to develop my research skills and knowledge of frontotemporal dementia (FTD). In this role, I worked with the Piguet Group on a number of research projects for my Bachelor of Science (Neuroscience) degree, which allowed me to:

- Conduct literature reviews and obtain quality feedback on my writing skills.
- Engage in personalised meetings and develop from professional mentorship, which helped further my understanding of dementia research and brain imaging techniques, such as Voxel-Based Morphometry (VBM) and develop experience with the grant writing process.
- Work in a collaborative team environment, attend group meetings and contribute to academic discussions.
- Gain exposure in utilising a wide array of research techniques and statistical methods for analysis of behavioural and imaging data.

Research Volunteer for Karl Group 2013

Neuroscience Research Australia - Mental Health

With Professor Tim Karl, my role was to work collaboratively on a 3 month intensive animal research project, which investigated the role of MIC-1/GDF15 on behavioural domains of male and female knockout mice including locomotion, exploration, anxiety, cognition, social behaviours and sensorimotor gating. This project led to a paper publication. In this role, I was responsible for:

- Completing an animal care and ethics course at UNSW, which I obtained a mark of 94% (High Distinction).
- Appropriate, careful and safe handling and care of the mice, to ensure minimal pain and distress.
- Conducting behavioural research on mice including tests such as the elevated plus maze, open field test, continuous spontaneous alternation in the Y-maze, social interaction test, fear conditioning and the prepulse inhibition test.
- Recording behavioural data from all experiments.
- Conducting formal analysis on the collected data, using the statistical software package, SPSS.

Research Volunteer for Hornberger Group 2012

Neuroscience Research Australia - Neurodegenerative Diseases

My work with Professor Michael Hornberger was initially intended to be a learning experience, however, due to my strong work ethic and eagerness to learn, I was encouraged to work on a research project, which investigated the use of a novel visual rating scale that would help clinicians reliably distinguish between ALS, ALS-FTD and bvFTD atrophy patterns on an MRI scan. This project led to a first-author paper publication. In this role, I was responsible for:

- Undertaking self-directed reading and reviewing of the literature.
- Viewing coronal MRI scans and implementing the rating scale to assess different regions of the brain.
- Collaborating with collaborators to analyse and interpret the results.
- Writing a manuscript for the research project.
- Working with research collaborators to address reviewer comments on the paper.

PROFESSIONAL EXPERIENCE IN TEACHING (UNIVERSITY)

Lecturer 2021 to date

The University of Canberra - Faculty of Health, Discipline of Psychology

At the University of Canberra, I am employed as a Lecturer. In this role I am responsible for:

- Coordinating and convening units and courses in Psychology and statistics.
- Designing, developing, delivering and coordinating innovative and engaging lectures, tutorials, laboratory classes and workshops as required.
- Undertaking marking and the development of assessment materials at the undergraduate and postgraduate levels.

Teacher and Developer - Software, Data and Library Carpentry 2020 to date

The Carpentries

In this role, I am responsible for:

- Teaching R, shell, Git and software engineering skills to scientists and engineers at bootcamps and online sessions.
- Developing new instructional content.
- Developing and maintaining The Carpentries GitHub repositories.

Teacher and Coordinator - CRAHW R Statistics Workshops 2019 to 2020

Australian National University - Centre for Research on Ageing, Health and Wellbeing

In this role, I was responsible for:

- Developing and delivering high quality, engaging workshops about linear/generalised linear models to PhD candidates and early career researchers.
- Developing practice questions using R code.
- Administrative tasks necessary for the successful operations of the course.

Teacher - Statistics Workshops in R 2019 to 2020

Australian National University - Biological Data Science Institute

In this role, I was responsible for:

- Developing and delivering high quality, engaging workshops about linear/generalised linear models, linear mixed models, model selection, graphing, R Markdown and GitHub to PhD candidates and early career researchers.
- Designing the curriculum.

Sessional Teacher - POPH8919: Life Course Approaches to Human Ageing 2018 to 2020

Australian National University - Research School of Population Health

In this role, I was responsible for:

- Developing and delivering high quality, engaging lectures and tutorials to students.
- Designing assessment tasks.
- Marking assessment tasks and providing prompt, valuable and insightful feedback.

Sessional Teacher - 1st and 2nd year Doctor of Medicine and Surgery degree 2018 to 2020

Australian National University - Centre for Research on Ageing, Health and Wellbeing

In this role, I was responsible for:

- Delivering high quality, engaging problem based learning tutorials to students.
- Teaching fundamental statistical concepts in an interesting, relevant and understandable way.

Convenor and Sessional Science Teacher - ANUC1107: Logic and Critical Reasoning 2017

Australian National University College

In this role, I was responsible for:

- Developing and delivering high quality, engaging lectures and tutorials to students.
- Designing and implementing assessment tasks, including assignments and final exam papers.
- Marking assessment tasks and providing prompt, valuable and insightful feedback.
- Addressing student concerns and issues.

Sessional Teacher - SCIF1121: Professional Perspective and Practice 2016 to 2017

University of New South Wales - Science Learning and Teaching Unit

I have been consistently rated highly by students on feedback questionnaires, including CATEI and MyExperience (reports available upon request), with an average score of 5.83 out of 6 for all assessment categories. In this role, I was responsible for:

- Delivering high quality, engaging tutorials to students.
- Implementing innovative teaching strategies to enhance student-learning experience.
- Collaborating with faculty members, to shape the design of the course, based on student feedback.
- Addressing student concerns and issues.
- Conducting analysis on teaching practices, which have led to conference presentations.

Casual Science Teacher - Biology 2015 to 2016

University of New South Wales Global

In this role, I was responsible for:

- Delivering high quality, engaging tutorials to students.
- Conducting laboratory demonstrations.

PROFESSIONAL EXPERIENCE IN TEACHING (HIGH SCHOOL)

Science Teacher (PE2 Placement - 9 Weeks) 2016

South Sydney High School

At South Sydney High School, I taught a range of students (including Year 8, 10 and 12), from varying socioeconomic backgrounds. The diversity of learners provided me with an opportunity to 1) adapt my teaching style to match the students' learning needs and 2) implement innovative teaching strategies to engage students in science. Two detailed reports of my performance on this placement are available, upon request. An overview of my contributions to the school include:

- Designing lesson plans and delivering high quality, engaging lessons.
- Organising and developing an engineering workshop for Year 8 students.
- Contributing to the development of an action research project, which incorporated online quizzes and examinations for student assessment tasks and formative learning activities.
- Setting high behavioural expectations and implementing effective classroom management techniques and strategies to facilitate a productive learning environment for students.
- Contributing to student mentoring programs.

Science Teacher (PE1 Placement - 4 Weeks) 2016

Randwick Girls High School

At Randwick Girls High School, I taught a Year 11 class and a special needs Year 8 class. A detailed report of my performance on this placement is available, upon request. An overview of my contributions to the school include:

- Designing lesson plans and delivering high quality, engaging lessons.
- Implementing weekly quizzes, to enhance student feedback and learning.
- Incorporating differentiation into the classroom, to address the learning needs of students.

Sessional Science Teacher 2014 to 2017

Matrix Education

At Matrix Education, I have primarily taught Biology for Year 12 students. I have helped students develop and implement effective learning strategies, which have enabled them to achieve success in their Higher School Certificate (HSC). In this role, I was responsible for:

- Designing lesson plans and delivering high quality, engaging lessons.
- Marking student quizzes, to provide detailed feedback.
- Consulting with the CEO on the operations and educational initiatives within the faculty of science.

PROFESSIONAL EXPERIENCE IN PRESENTING/COMMUNICATION

Podcast Presenter 2018 to date

Midnight Conversations

Midnight Conversations is a podcast that discusses published, peer-reviewed scientific papers in an understandable and engaging way. The primary aim of the podcast was to foster a public interest in current scientific research to promote public engagement and provide a forum for critical and productive scientific discourse. As of 5th January, 2024, Midnight Conversations has 54 episodes which have accrued 6359 plays. In this role I am responsible for:

- Discussing scientific papers in an interesting and understandable way by highlighting the relevance and importance of key findings.

- Editing the podcast.
- Managing the operations of social media channels for the podcast.

Science Communicator 2015

Neuroscience Research Australia

My neuroscience background, combined with my writing and presenting skills enabled me to be successfully employed as a science communicator at Neuroscience Research Australia (NeuRA). In this role, I was responsible for:

- Translating technical scientific research into easily digestible information for media organisations and the general public.
- Establishing strong professional relationships and openly communicating with various media outlets and journalists to promote research conducted at NeuRA.
- Writing media releases, magazine articles and blog posts to create public traction for research.
- Creating engaging podcasts to enhance public interest in neuroscience research.
- Creating video content to explain key neuroscience research areas to the public.
- Providing intensive training sessions for scientists, to help them explain their research to the public.
- Writing quarterly board reports for relevant stakeholders.

Marketing Director 2014

Warrane College's The Big Picture Program

The Big Picture Program is a 5 day camp, which helps students shape their professional and personal direction in life. Due to my passion for mentoring students and longstanding involvement as a volunteer for the program, I was asked to be the director of marketing in 2014. My contributions included:

- Identifying specific areas of weakness in the marketing strategies for the program, and creating a core team of expertise to specifically focus on and address these limitations.
- Enhancing student outreach by speaking at a large number of schools across NSW and ACT. This initiative, in addition to other strategies, led to a three-fold increase in the number of enrollments from the previous year (i.e. from 20 to 60 students), which was the largest intake the program had experienced.
- Establishing strong professional connections with businesses, entrepreneurial companies and universities in NSW, to provide students with educational experiences including, guest lectures, engineering and science demonstrations and campus tours.

Science Student Ambassador 2013 to 2016

University of New South Wales - Faculty of Science

As a science student ambassador, I was actively involved in outreach to high school and primary school students to stimulate engagement and interest in science. Due to my experience in presenting and public speaking, my responsibilities included:

- Teaching primary and high school students about science.
- Interviewing scientists for UNSW's video content.
- Speaking at public events for the science faculty.
- Being outsourced as a presenter for the centralised university outreach division, which resulted in ad-hoc presenting roles and guest speaking invitations at public events, both on and off campus.

Radio Show Host for The Pod 2013

Arc at University of New South Wales

The Pod was a campus radio show at UNSW. In this role I was responsible for:

- Creating engaging and entertaining podcasts for students.
- Writing interview questions and hosting the show.

- Organising guests for the show, including Australian comedians such as Wil Anderson, Fiona O'Loughlin and Sammy J.
- Editing the podcast.
- Managing a volunteer base of students.

SERVICE TO UNIVERISTY

Manager of University of Canberra Chess Club on Chess.com 2023 to date

Chess.com

Faculty of Health Running Club 2023 to date

University of Canberra - Faculty of Health

Coordinator for NeuroIMaging and Brain Lab (NIMBL) Meetings 2018 to 2020

Australian National University - Centre for Research on Ageing, Health and Wellbeing

COMMITTEES

Faculty of Health Education Committee 2023 to 2025

University of Canberra - Faculty of Health

Courses and Units Sub-Committee (CUSC) 2022 to 2023

University of Canberra - Faculty of Health

IARU Research Meeting - Organising Committee Member 2019

International Alliance of Research Universities

RSPH Strategic Plan - Beneficiaries Working Group Member 2019

Australian National University - Research School of Population Health

Postgraduate Research Student Committee - Deputy Chair 2019

Australian National University - Research School of Population Health

Postgraduate Research Student Committee - Student Representative 2018

Australian National University - Research School of Population Health

Learning and Teaching Committee - Postgraduate Student Representative 2016 to 2017

University of New South Wales

Student Representative for PHAR3202: Neuropharmacology 2014

University of New South Wales

SERVICE TO RESEARCH

PEER REVIEW

I have peer reviewed 15 research articles (totalling 21 peer reviews). Of those, 4 articles were for the British Medical Journal (BMJ - Q1, ranked 5/329 in medicine, general and international) and 1 was for Neuroscience and Biobehavioural Reviews (Q1, ranked 4/55 in behavioural science). My peer review to publication ratio is 2.1:1 (Web of Science). I have also reviewed 11 honours theses since working as a Lecturer in 2021.

Review Editor 2023 to date

Frontiers in Aging Neuroscience - Alzheimer's Disease and Related Dementias

SERVICE TO COMMUNITY

Memory Walk and Jog 2020 and 2023

Dementia Australia

Reconciliation Week Fun Run 2022

Indigenous Marathon Foundation and The University of Canberra

Founder of the Big Brother Scholarship 2018 to 2021

Sydney Technical High School

Shirty Science with Canberra Girls Grammar 2018

Shirty Science

Youth STEM Conference 2018

Centre for Innovation and Learning

Science Peer Mentor 2015

University of New South Wales

Ambassador and Mentor 2012 to 2017

Warrane College's The Big Picture Program

Sri Lanka Work Camp Volunteer 2012

Warrane College

Volunteer 2011 to 2017

Room to Read

Senior Prefect 2011

Sydney Technical High School

MEDIA OUTREACH

Links to all media outreach, including television, print, radio/podcast, in addition to invited talks, guest lectures and public speaking events can be found here.

ACCREDITATION/PROFESSIONAL DEVELOPMENT

Higher Degree Research Supervisor 2022

University of Canberra

Complex Human Data Summer School Scholarship 2019

University of Melbourne

ANU Graduate Short Course Award in Science Communication 2018

Australian National University - Centre for The Public Awareness of Science

Research to Impact Program 2018

Canberra Innovation Network

Working with Vulnerable People - General Registration 2023 to 2028

ACT

Literacy and Numeracy Test for Initial Education Students 2016

Australian Council for Educational Research

Anaphylaxis Training 2016

Australasian Society of Clinical Immunology and Allergy

Diploma of Educational Studies 2013

College of Teachers, London

Animal Care and Ethics Course 2013

University of New South Wales

MENTEESHIP

Higher Education Academy Mentoring Program 2023

University of Canberra

In this program, I was mentored by Adjunct Professorial Associate Peter Copelan. The mentorship focused primarily on my Fellowship application submission to the Higher Education Academy.

Faculty of Health Mentoring Program 2021 to present

In this program, I was mentored by Professor Douglas Boer and am currently mentored by Associate Professor Phillip Newman. The mentorship focuses on my university portfolio (i.e. research, teaching, service and engagement), in addition to opportunities for professional development and pathways for promotion.

University of Canberra - Faculty of Health

OTHER INTERESTS

Rock Climbing 2020 to date

Performing Stand-up Comedian 2013 to 2018

Bamboo Flautist 2001 to 2016

Chess 2002 to date

Tennis 1999 to date

REFEREES

Provided on request