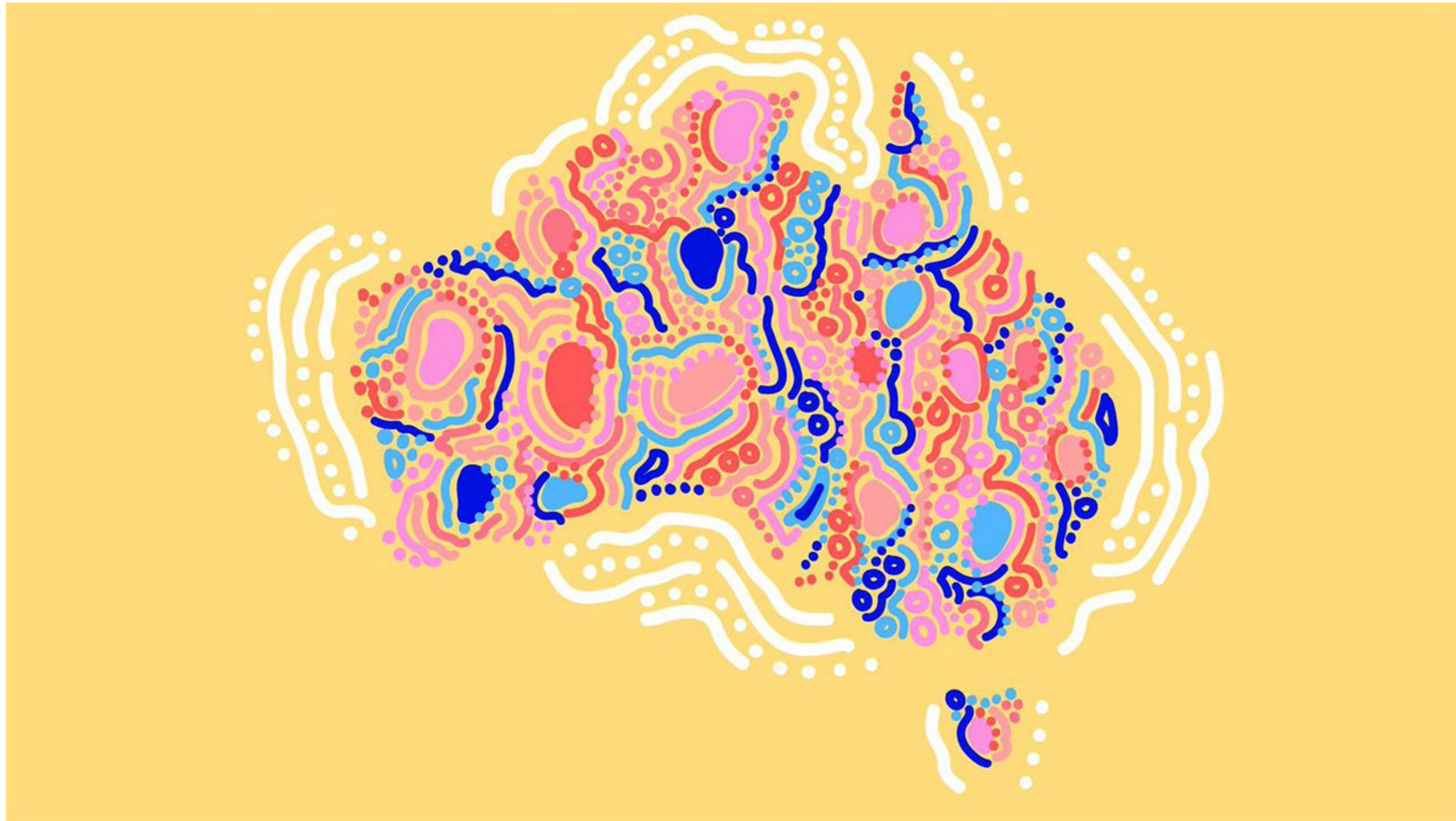




Thesis by Compilation

Christopher Reid
John Curtin Distinguished Professor
Dean Graduate Studies, Curtin University

Acknowledgement of Country



Housekeeping

We have many attendees today!

Please keep microphones muted and do not display your video unless speaking to ask a question when invited to do so. This will conserve bandwidth.

The event will be recorded and made available soon after.

Make comments or pose questions by typing them into our Slido Q&A tab embedded in WebEx.

Attendees can up-vote questions which they want prioritised.
can also use <https://bit.ly/2UScRuK>



Links to Policy...Procedures...Guidelines

[Guidelines for Thesis Preparation and Submission](#)

Section 3 “Additional requirements for the preparation of a thesis by compilation”

Section 4 ‘Attribution of research outputs in the HDR thesis’

[Australian Code for the Responsible Conduct of Research 2018 – Authorship](#)

[Authorship, Peer Review and Publication of Research Outputs Policy](#)

[Authorship, Peer Review and Publication of Research Outputs Procedures](#)

Guidelines for Thesis by Compilation

1. RESEARCH THESIS FORMAT REQUIREMENTS

- 1.1. All students need to prepare their thesis as per the requirements set out in the [Higher Degree by Research \(HDR\) Thesis Examination Procedures](#).
- 1.2 A thesis will be based on research conducted during the period of enrolment and will be submitted in one of the following forms:
 - (a) a standard thesis;
 - (b) a thesis by creative works accompanied by an exegesis; or
 - (c) a thesis by compilation.

What is a standard thesis?

At beginning: Table of contents, lists of tables and figures, declarations, dedications, attributions and abstract

Set series of chapters: Introduction and literature review, Methods chapter, Results chapter, Discussion and Conclusions chapter(s).

At end: References and then a series of appendices.

See examples in the Library's [espace](#).

The research area may have a standard practice (consider expectations of examiners)

Thesis must as a whole form a coherent narrative, structure may vary by the nature of the research process unique to that thesis.

Thesis by compilation (publications)

3. ADDITIONAL REQUIREMENTS FOR THE PREPARATION OF A THESIS BY COMPILATION

3.1 A thesis by compilation (otherwise known as a thesis by publication) consists of a series of peer reviewed published or in-press journal papers or peer reviewed book chapters. It will include at least:

- a) introductory chapter(s) which makes clear the overall contribution of the thesis,
- b) one substantive chapter that explains the contribution of each paper and summarises the methodology and methods,
- c) a substantive thematic discussion and/ or conclusion chapter that clearly explains the major contributions to scholarship made by the study and also sets out the limitations of the study and scope for future research, and
- d) a reference list.

3.2 A thesis by compilation should not normally include a conference paper in the main body of the thesis. However, it is recognised that some specific research areas support the inclusion of high-level, peer-reviewed, published conference papers in the thesis.



Thesis by compilation (publications)

- 3.3 Students should note that a delay in publication of HDR outputs is not a satisfactory reason for extension of enrolment in the HDR program.
- 3.4 Co-authored research outputs with other academics (not other HDR students) are permitted to be included in a thesis but the student must indicate their contribution and provide an attribution statement.
- 3.5 Copyright: A thesis that is being submitted for examination may have third party copyright material within the thesis. These third party works must be appropriately referenced and authorship attributed in the copy submitted for examination. The student is responsible for clearing permission from the copyright holder to re-use the third party works in the thesis copy submitted for examination. The student is also responsible for clearing any additional required permissions from copyright holders to re-use third party works in the thesis copy deposited in Curtin's institutional repository space. For further guidance on copyright requirements for HDR students, refer to [Copyright for HDR students](#).



Hybrid model

Currently, most research theses are a mix of the standard (chapters) and the compilation models.

These are varied and are a 'hybrid' thesis.

Curtin does not define the hybrid thesis as it is becoming the usual practice in many domains of research

Examples are available in your area from the Library and the critical nature of attribution comes to the forefront in any hybrid thesis submission.

Authorship, Attribution and Academic Integrity

Authorship

It is a commodity it has a value.

Authorship is earned.

Examiners

What should the student tell the examiners?

Attribution

Papers published

Papers in preparation

Plagiarism

Stealing something and then saying where you stole it from does not mean you did not steal it. You have to tell the 'examiner' who owns it.



Authorship, Peer Review and Publication of Research Outputs



Authorship, Peer Review and Publication of Research Outputs Procedures

1. STRATEGIC PLAN THEME AND COMPLIANCE OBLIGATION SUPPORTED

[*Authorship, Peer Review and Publication of Research Outputs Policy*](#)

[Australian Code for the Responsible Conduct of Research](#)

Strategic Plan theme: [Research and Innovation](#)

2. PROCEDURAL DETAILS

This procedure applies to all forms of dissemination of research outputs.

This procedure supports the Australian Code for the Responsible Conduct of Research (The Code), Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals (Vancouver Protocol), and guidelines issued by the Committee on Publication Ethics (COPE).

2.1. Authorship eligibility

- 2.1.1. To be named as an author, a researcher will have made a significant intellectual contribution to the work and be able to take responsibility for at least that part of the work they contributed. Significant intellectual contributions are a combination of at



Authorship Agreements

Put an agreement in place before the commencement of writing a research project - no need for a formal legal document, eg can be emails or a signed form/letter

Authorship on great papers is the equivalent to gold.
Authorship is a commodity and has value.

There are standard systems to award authorship.
automatically give Authorship to the person who owns
the instrument or is Head of Department?
automatically give Authorship to the supervisor?

Is that OK?

The world has changedit is NOT appropriate to do this

(See S2.1.3 of Procedures)

If an academic fulfils the role of an advisor and collaborator in the development and guidance of the research paper then it would seem obvious that they should be/ would be an author.

Attribution

4.1 The acknowledgment of the contributions of various people who made the HDR completion possible is important to include at the beginning of a thesis or exegesis. In addition, it is important to attribute appropriate any contributions to the genesis, thematic development and synthesis of data or concepts that advanced the development of a research output.

4.2 During the writing of a HDR thesis, students are encouraged to publish their work during their enrolment. The publications are often with multiple authors. If the work is co-authored, and is included as part of the thesis, either as a publication or it is used to form, or inform, one or more parts of the thesis text, it is essential for the student to declare that the work was co-authored. Within the thesis this is called attribution.

4.3 If a co-authored paper, or material or original concepts from that co-authored work are used in the thesis, it is essential that an attribution statement is included in the thesis.

Attribution Statement

Percentage contribution by field of activity: Indicate the percentage time for each co-author.

	Conception and Design	Acquisition of Data and Method	Data Conditioning and Manipulation	Analysis and Statistical Method	Interpretation and Discussion
Co-Author 1 (name)					
Co-Author 1 Acknowledgment: I acknowledge that these represent my contribution to the above research output and I have approved the final version.					
Signed:					
Co-Author 2 (name)					
Co-Author 2 Acknowledgment: I acknowledge that these represent my contribution to the above research output and I have approved the final version.					

Authorship – Roles vs % allocation

Examples...

Paper “ *Test paper #1*. Journal of thesis papers Vol 34, (1) pages 23 – 43.”

Authors and full affiliations:

	conception and design	acquisition of data & method	data conditioning & manipulation	analysis & statistical method	interpretation & discussion	Final Approval
Dr Co author 1	x		x	x		x
I acknowledge that these represent my contribution to the above research output. Signed.						
Dr Co-author 2	x			x	x	x
I acknowledge that these represent my contribution to the above research output. Signed.						
Etc.						

Go to the website and find the attribution statement

Some theses which have multiple papers have a single Author tables. This is easier to send to individual authors for their records. ¶

Co-author Attribution... Prof. E.Z. Write. ¶

✕	Paper #1 Systematic review meta-analysis ✕	#2 Reliability Validity ✕	#3 Clinical Trial outcomes ✕	✕
conception and design ✕	✕ ✕	✕ ✕	✕ ✕	✕
acquisition of data & method ✕	✕ ✕	✕ ✕	✕ ✕	✕
data conditioning & manipulation ✕	✕ ✕	✕ ✕	✕ ✕	✕
analysis & statistical method ✕	✕ ✕	✕ ✕	✕ ✕	✕
interpretation & discussion ✕	✕ ✕	✕ ✕	✕ ✕	✕
Final approval ✕	✕ ✕	✕ ✕	✕ ✕	✕

¶

Criteria to Examine a **Doctoral** thesis

“In particular, the thesis should demonstrate that the candidate has:

- a) adequately surveyed literature relevant to the thesis;
- b) adequate skills in the gathering and **critical** analysis of information and report presentation;
- c) demonstrated the capacity to conceive, design and carry to completion independent research; and
- d) made a substantial, **original and significant** contribution to the knowledge or understanding in the field of study.

In assessing the thesis, the examiners should prepare a report on the prescribed form, indicating whether the criteria in (a) - (d) have been satisfied and, if not, what modifications are necessary to reach this standard.”

Criteria to Examine a **Master's** thesis

“In particular, the thesis should demonstrate that the candidate has:

- a) adequately surveyed literature relevant to the thesis;
- b) adequate skills in the gathering and analysis of information and report presentation;
- c) demonstrated the capacity to conceive, design and carry to completion independent research; and
- d) made a substantial contribution to the knowledge or understanding in the field of study.

In assessing the thesis, the examiners should prepare a report on the prescribed form, indicating whether the criteria in (a) - (d) have been satisfied and, if not, what modifications are necessary to reach this standard.”

Lastly - understand Academic Integrity

Universities Australia (2017) definition: 'Academic integrity means acting with the values of honesty, trust, fairness, respect, and responsibility in learning, teaching and research'. Principles of academic integrity align with Curtin's core values (integrity, respect, courage, excellence and impact).

"Plagiarism is presenting the work or property of another person as your own without appropriate acknowledgement or referencing..."

See [Academic Integrity Governance](#); [Academic Integrity student essentials](#)
[Management of Academic Integrity Warnings for New to Curtin Students Procedure](#)

And submit your work to Turnitin using links in the Research Integrity training on Blackboard!



Publishing Power Hours 2021

- 1 - **Publishing in quality journals**, Tuesday September 7, 12:00pm – 1:00pm
- 2 - **Predatory journals**, Thursday September 16, 12:00pm – 1:00pm
- 3 - **Open access publishing**, Thursday September 23, 12:00pm – 1:00pm
- 4 - **Publishing your research data**, Wednesday September 29, 12:00pm – 1:00pm
- 5 - **Publishing your software code**, Thursday September 30, 12:00 – 1:00pm
- 6 - **Publishing copyright essentials**, Thursday October 7, 12:00pm – 12:30pm
- 7 - **Getting your article published**, Wednesday October 13, 12:00pm – 1:00pm
- 8 - **Making EndNote work for you and your publications**, Thursday October 21, 12:00pm – 1:00pm
- 9 - **Measuring the impact of your research publications**, Thursday October 28, 12:00pm – 1:00pm

<https://bookings.library.curtin.edu.au/calendar/workshops>



Thank you

Make tomorrow better.

Writing Papers

*Hybrid Thesis (in prep, submitted,
published & in press papers)*

Kliti's Experience & Tips

30th August 2021



General-1

- Two kinds of papers- *Creative/ Analytical*.
- Writing a paper can be a primary mechanism for setting out research (*review paper*) -- *not just a mechanism for reporting it!*
- Reporting research--- A question (problem), literature review, analysis, methodology for original research, results, conclusion, & references (up to date & primary reference material).
- Have a solid compelling piece of research.
- Decide on authorship early– discuss with supervisors & co-authors.
- Target journal- know your audience & journal format.

Scaffolding Tips



• Template or outline of paper format. *E.g.* previous student's paper as template. On-line template.

• An outline - ***a mindmap (foundation)***, a list of points to cover, a statement of purpose, a mental image of your finished paper. ***You need foundations & scaffolding to build a paper.***

• ***Start with figures with data that tell the story. High quality figures.***

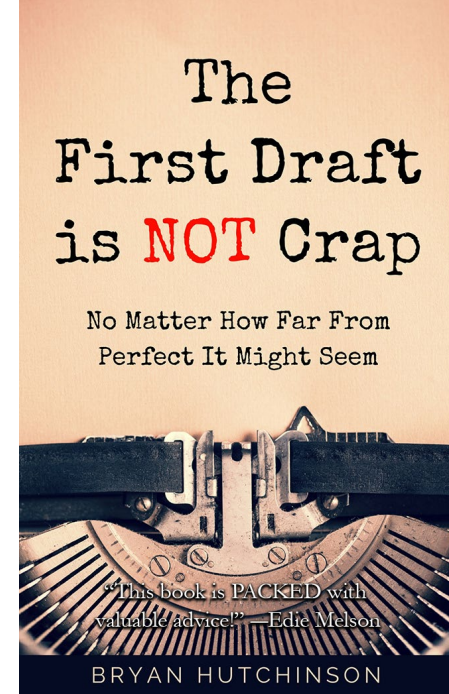
Multiple versions might be needed. These are also discussion points- supervisors & students.

• Start broad, then dive into the specifics.



First Tips

- First draft won't be perfect — you can polish later on.
- Attention to clear organization & logical ordering of paragraphs & sentences.
- Express ideas as clearly as possible.
- Do not need to start by writing the introduction. Begin where it feels most natural for you — you might prefer to finish the most difficult sections first, or you might choose to start with the easiest part. Use your *mindmap*.
- Never delete large sections of text- place it in a different document, but don't delete it —might be useful later.
- Expect multiple drafts. Feedback is critical on drafts.
- Constantly do a spell check at the end of each writing session. Backup.
- Email a copy to yourself.



Writer's Block

- Discipline yourself.
- **Set aside time to write a little bit each day (500 words, 1 paragraph) & end your writing session at a place where you'll be able to easily pick up the thread the following day.**
- **Work on sections that you find easiest-** e.g. materials & methods.
- Feedback from supervisors – co-authors- early on- work in progress.



Writer's Block



- Use "imperfect" words

Don't spend hours looking for a perfect wordsimply write what you're thinking, whether it's eloquent or not. Come back & refine it later.

- Change your environment.

- Change to pen & paper.

- Never write a paper from start to finish with no discussions.*



Hybrid Thesis – WA-OIGC



Minimum – three chapters peer-reviewed international papers
(submitted, in press, in prep) in Hybrid Thesis

Writing weeks- set aside- mentor, supervisor

Always Celebrate Writing Achievements

Hybrid Thesis Case Study- Supervisor

Charlie Ironside Dept of Physics Curtin University

August 2021

Laser Osteotomy and Optical Sensing for Advanced Robotic Joint Tissue Surgery

- Student :**Gorokgodage Don Rajitha Gunaratne**
- Orthopaedic Surgeon
- Recruited via Australian Institute of Robotic Orthopaedic (AIRO)
- Started 2015
- Part- Time
- Submitted June 2021 Thesis still under review by external examiners

Student Contributions

- Review of literature – published
- Main Papers on Machine learning as a tool for robotic surgery
- Student worked on sample prep, data collection, data analysis
- Also worked on machine learning for laser surgery
- Plus generally worked on robotic surgery
- In total 4 key paper plus 3 background

Thesis prep

- Followed the guidelines
- Got permissions
- Authors contributions were attributed
- Talked to AIRO about confidentiality

Thesis by Compilation

A Student Perspective

René Kathleen Forsyth
PhD Candidate
August 2021



Writing Papers for Publication

- You will already have your hypothesis and an understanding of your data and the direction you want the paper to take
- Before you dive too deep, think about which Journal you intend to submit
 - Types of papers accepted
 - Word counts
 - How many Tables and Figures you may have
 - Subheadings



After you submit to a Journal...

- Be prepared...
 - To wait
 - To feel rejection
 - To feel frustration
 - To feel elation
 - To ugly cry on the floor...



After you submit to a Journal...

- Be prepared...
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 - To ugly cry on the floor...



This is not a
drill!

After you submit to a Journal...

- Be prepared...
 - To wait
 - To feel rejection
 - To feel frustration
 - To feel elation
 - To ugly cry on the floor...

- Have a plan in mind for the next step
 - It is no good waiting for this paper to come back
 - It can take weeks... months



Every Rejection is an Opportunity

- While rejection (sometimes over and over again) is frustrating....
 - It helps you grow!
 - It challenges the way you think and may reveal things you hadn't previously thought of
 - Every bit of feedback will shape the next step
 - The reviewer may have a unique experience or take that you and your supervisors may not have considered



It can be hard to not take rejections personally... but the examiners don't know who you are, it's not personal for them, it's science!



Thesis Template

- Start to think about your Thesis Template early
- How will each of your papers flow from one to the next?
 - What is the story you're trying to tell?
- How many papers will you need to complete the story?
- Is a systematic literature review required?
 - Don't forget you can publish systematic reviews too!



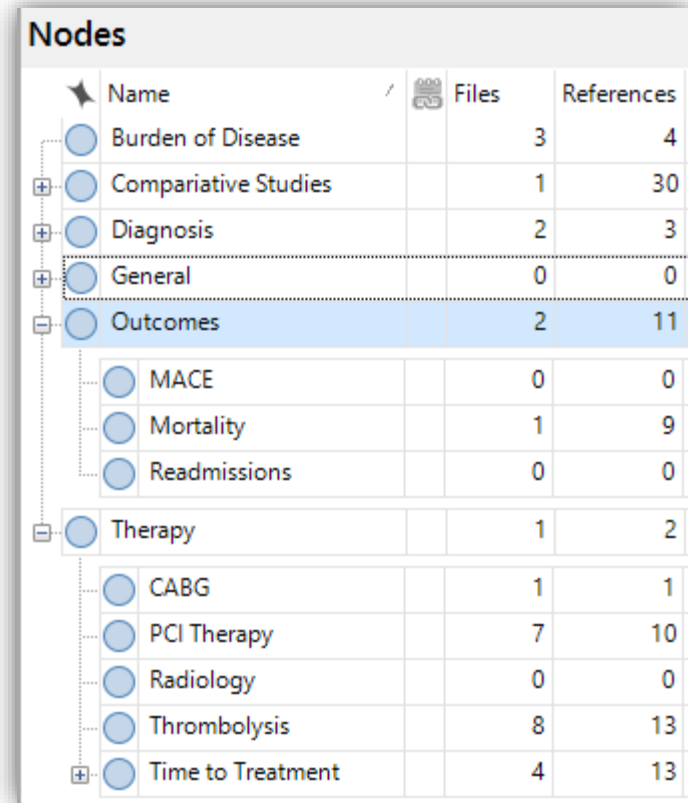
Hot Tips

- Citation Manager (Endnote)
 - Makes referencing in Word a dream
 - Can also make notes within the data base
 - Can attached the PODF inside EndNote to find it easily later

2016	Tan, Nigel S.; Goodman, S...	Efficacy of Early Invasive Man...	Excluded. No transfers.
2016	Varcoe, R. W.; Clayton, T. ...	Impact of call-to-balloon tim...	Eligible. Transfers. PCI therapy.
2016	Welker, J.; Auer, R.; Gence...	Hospital revascularisation cap...	Eligible. Transfers. PCI therapy.

Hot Tips

- nVIVO
 - Take the course, start using it early, use it well!
 - Text searches – will search inside PDFs!
 - Can code documents as you review them (nodes)

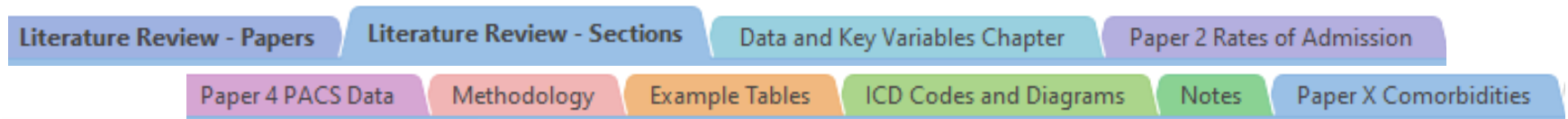


The screenshot shows the 'Nodes' interface in nVIVO. It features a table with three columns: 'Name', 'Files', and 'References'. The 'Name' column lists various nodes, some of which are expanded to show sub-nodes. The 'Files' and 'References' columns show the count for each node. The 'Outcomes' node is highlighted in blue.

Name	Files	References
Burden of Disease	3	4
Comparative Studies	1	30
Diagnosis	2	3
General	0	0
Outcomes	2	11
MACE	0	0
Mortality	1	9
Readmissions	0	0
Therapy	1	2
CABG	1	1
PCI Therapy	7	10
Radiology	0	0
Thrombolysis	8	13
Time to Treatment	4	13

Hot Tips

- Good old fashioned notebook.... or OneNote
I used OneNote for my literature Review
OneNote has a Search function
Links with iPad for notes on the go

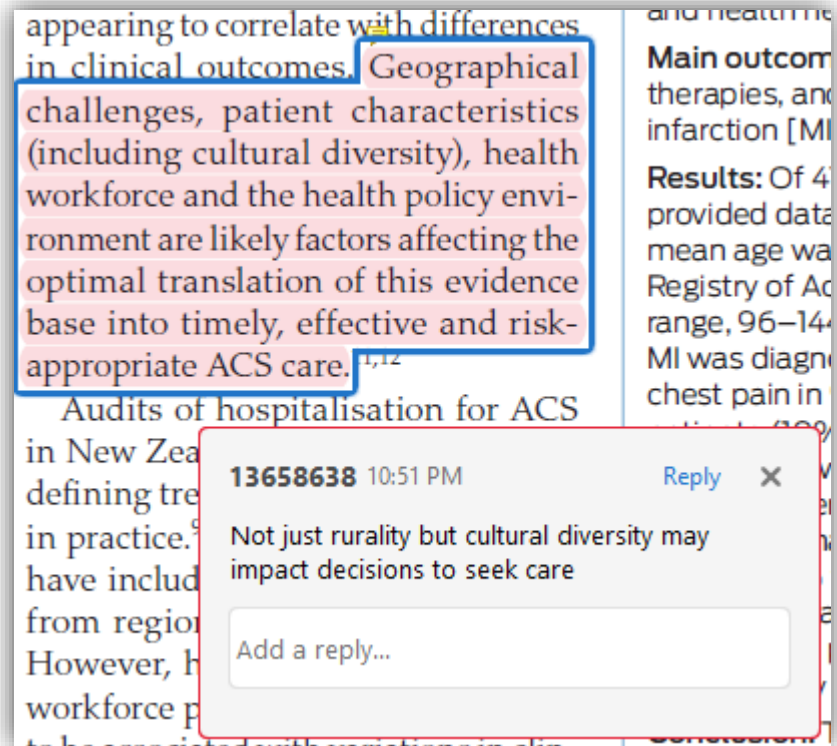


Acute Coronary Syndrome
Burden of Disease
Diagnosis
Treatment - PCI
Major Adverse Cardiovascular Eve
Mortality
Necessity of timely intervention




Hot Tips

- How will you review your literature and keep on top of it?
 - One paper per night?
 - Highlight on iPad or PC?
 - Make Notes
 - How will you store your paraphrasing?





Resources



Planning your PhD

All the tools and advice you need to finish your PhD in three years



HDR Information

Dear HDR Students,

The following items are for your interest.

5. Curtin workshops for HDR students

Most sessions are recorded – look for links in [HDR Resources](#). Click on the Registration links to see more information.

- Library workshops – see attached flyer for upcoming sessions/registration links or view via the [Library Workshop Calendar](#).
- *Thesis by Compilation – guidelines and tips (ie thesis by publication or a hybrid thesis)*
Date: Monday 30 August 10am – 11am
Register: [Library Calendar](#)





Curtin University

Questions?