Central Commencement Program
For New Higher Degree Research Candidates
Semester 1, 2016
Welcome to Country
HDR Central Commencement 2016
Professor Sakkie Pretorius, Deputy Vice-Chancellor (Research)
HDR@MQ: An Introduction

Professor Nick Mansfield, Dean HDR
What is HDR?

• Highest Standard Academic Qualification
• High Level Academic Research
• Major component of world research
Goal: Doctorate

- “Graduates at this level will have systematic and critical understanding of a complex field of learning and specialised research skills for the advancement of learning and/or for professional practice.”

- Australian Qualifications Framework
Goal: Research Masters

“Graduates at this level will have specialised knowledge and skills for research and/or professional practice and/or further learning.”

- Australian Qualifications Framework
HDR Administration

- DVC (Research): Prof Sakkie Pretorius
- Dean HDR: Prof Nick Mansfield
- Director, HDRO: Dr Ren Yi
- Associate Deans
HDR Key Committees

- Academic Senate
- HDRC
- PESC (Programs and Examinations Sub-Committee)
- RSPC (Research Strategy and Policy Committee)
- Ethics Committees
Dean HDR Roles

- HDR Quality
- MRes and HDR curriculum
- Work with HDRO on Admissions and Scholarships
- HDR Examination
- HDR Support and Development
- HDR Student Feedback
- Contribute to Policy and Development
- Australian Council of Graduate Research (ACGR/DDOGS)
1. Supervision: A/Professor Merilyn Childs
2. HDR Learning Skills: Dr Juliet Lum, Dr Florence Chiew (Social Science), Dr Michelle Jamieson (Humanities), Dr Jennifer Rowland (Science)
3. HDR Professional Skills (Sally Purcell)
4. HDR Mentors (Kim Tan)

http://www.hdr.mq.edu.au/information_for/HDR_support_and_development
Supervision

• Principal Supervisor
• Associate Supervisor
• Adjunct Supervisor

• HDR Supervision Policy and Procedure

• Becoming an autonomous researcher
You and the University

- Supervision
- Intellectual Climate
- Support Services
- Challenges

- The Importance of What You Do!
Understanding the Research Environment and the Higher Degree Research Candidate Journey

Central Commencement Program, February 2016

Dr Ren Yi

Director Research Training
And International Research Training Partnerships
At a glance

90 per cent of our graduates under the age of 25 are employed in their first full-time job within six months of completing their study.

$1 billion invested in infrastructure and facilities in recent years.

85 per cent of our research is rated at world standard or higher by the Australian government.

Among top 100 universities in the world for graduate recruitment.

50 countries and over 150 partner universities for exchange.

8200 students in PACE (Professional and Community Engagement) since its inception.

Over 38,000 students.

23 researchers ranked in the top one per cent in the world.

150,000 alumni in more than 140 countries.

20 companies on campus providing access to job opportunities.

10,000 degrees awarded annually.

15 kilometres from the Sydney CBD.
Macquarie’s structures

- Faculty of Science and Engineering
- Faculty of Arts
- Faculty of Human Sciences
- Faculty of Business and Economics
- Faculty of Medicine & Health Sciences
- Macquarie Graduate School of Management
World-Leading Research
World-Changing Impact

STRATEGIC RESEARCH FRAMEWORK: 2015–2024
A 10-year Strategic Research Framework

- Research Priorities: 5
- Research Themes: 14
- Research Streams: 69
Future-shaping Research Priorities

Healthy People
Pioneering health, integrated healthcare and lifelong learning for wellness in our ageing world

Resilient Societies
Understanding cultures in our changing world and building ethical, just and inclusive communities

Prosperous Economies
Strengthening economic productivity to promote prosperity in our diverse world

Secure Planet
Sustaining our interdependent world and exploring our place in the universe

Innovative Technologies
Advancing our interconnected world with frontier technologies, systems, designs and creative practice
Four Key Objectives

**Key objective 1:**
Accelerate World-Leading Research Performance

**Key objective 2:**
Prepare world-ready higher degree research candidates

**Key objective 3:**
Engage as a world-recognised research collaborator of choice

**Key objective 4:**
Deliver research with world-changing impact
Our HDR Candidates develop the skills and competencies to succeed in the dynamic and changing world of work.

HDR Candidates statistics (2016, approx.)

- 2,000 Higher Degree Research Candidates
- 500-600 Master of Research Candidates
- 30-40% International Candidates
MQ invests around AUD$30 mil. per year in scholarship funding, enabling over 200 new HDR and MRES enrolments per year.

- International Macquarie University Research Excellence Scholarships (MQRES & IMQRES)
- Cotutelle IMQRES scholarships with research partner universities
- Faculty top-up Scholarships, e.g. grants for travel & research related expenses
Principles and Trends in Research and Research Training in Australia

- Sustainability (SRE)
- Excellence (ERA)
- Transparency
- Accountability
- Integrity
National Structure of Research Integrity Management in Australia

National Responsibility
1. 2007 Australian Code for Responsible Conduct of Research (2007 Code)
2. Australian Research Integrity Committee

Institutional Responsibility
2. Institutional Policy on Research Misconduct

Researcher Responsibility
1. HDR students Induction/Orientation program
2. Workshops on Research Integrity
Principles on international research collaboration

Macquarie University Code for the Responsible Conduct of Research
• http://www.mq.edu.au/policy/category.html#research

Singapore Statement on research integrity (2010)
• http://www.singaporestatement.org/

OECD principles (2009)
• http://www.oecd.org/dataoecd/42/34/42770261.pdf
The Higher Degree Research Student Journey

Commencement

Scholarships

Candidate Quality

Examiners

Assessment and Graduation

English

Networks

Training

Infrastructure

Supervision

Resources

Scholarship

Criteria

Registration

Workload

Training

3 years
Completion

Employment

Res ability

Resources

Scholarship

Employment

3 years
Completion
Aspects of the HDR Candidate’s Journey

- Evaluating the ability to undertake research
- Forming the supervision team
- Providing an induction program
- Complying with regulations
- Participating in a comprehensive research training program
- Writing papers and your thesis
- Assessment of your thesis
- Graduation and employment

http://www.hdr.mq.edu.au/information_about/home
Publishing and reporting

• Publishing articles during your candidature is useful in many disciplines as it helps demonstrate progression.

• It is also important to publish in good journals to obtain pre-examination peer review of the work and establish your “reputation”.

• Acknowledgement for MQ
  Published work can also form substantial parts of “chapters” within your thesis.

• HERDC reporting (Book, Book chapter, Journal and Conference paper)

• Annual Progress Report (APR)
Out of Time Policy

- Prior to 2014, PhD candidature is 4 EFTSL
  From 2014, PhD candidature is 3 EFTSL
  2 extensions (up to 6 months each, or 0.5 EFTSL per extension)

- MPhil 2 EFTSL; One extension only
  1 extension (up to 6 months, or 0.5 EFTSL)

- Special tuition fee (domestic) vs full fee-paying (international)
MQ aims to provide you with a research culture, climate and community that supports your research journey. But - it also includes your own engagement with other HDR students, staff and the wider MQ community.

Faculty HDR contacts (Managers):
• Faculty of Business & Economics - Agnieszka Baginska
• Faculty of Human Sciences - Robyn Bishop
• Faculty of Arts - Maryanne Hozijan
• Faculty of Science – Jane Yang
• Faculty of Medicine and Health – Tania Kinane / Viviana Bong
• MGSM - Kerry Daniel
Thank You

Current students: www.hdr.mq.edu.au

Future students: www.mq.edu.au/research/phd-and-research-degrees
Cotutelle & Joint PhD
International Joint Supervision Programs
Cotutelle & Joint PhD

FACT & FIGURES

- Joint enrolment at two universities
- 91 Cotutelle/Joint PhD candidates currently enrolled
- Over 250 Cotutelle/Joint PhD candidates since the programs inception
- Partner universities in over 30 countries – led by Europe and China
- Science and engineering have the most candidates
- Joint supervision programs are part of our strategic research framework from 2015 - 2024
# Why do we do it?

Establishing deep and continuing relationships

<table>
<thead>
<tr>
<th>Institutions</th>
<th>Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deepens and strengthens research collaborations and networks at an institutional level</td>
<td>Exposure to different academic environments through joint enrolment and supervision</td>
</tr>
<tr>
<td>Fosters a higher level of cooperation between researchers in their respective fields through co-supervision</td>
<td>Training experiences and access to the latest research equipment and technologies at two institutions</td>
</tr>
<tr>
<td>Provides access to new funding schemes as well as new international enrolments</td>
<td>International networking opportunities that will expand future employment opportunities through exposure to new academic institutions and new industries</td>
</tr>
<tr>
<td>Provides an opportunity to increase joint publications, citation rate and rankings</td>
<td>Access to new funding schemes</td>
</tr>
<tr>
<td>Make the institution more attractive to potential candidates</td>
<td>Experience a new culture and environment and develop soft skills</td>
</tr>
</tbody>
</table>
## Close Up

### What is the difference?

<table>
<thead>
<tr>
<th>Cotutelle</th>
<th>Joint PhD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joint enrolment at MQ and an overseas university</td>
<td>Joint enrolment at MQ and an overseas university</td>
</tr>
<tr>
<td>Priority institutional partners – but open to all universities subject to approval</td>
<td>Institutional partners require Academic Senate Approval</td>
</tr>
<tr>
<td>Institutional memorandum of understanding (MOU) not required</td>
<td>Institutional MOU/agreement may be required</td>
</tr>
<tr>
<td>Separate progress assessments</td>
<td>One university is designated as the lead</td>
</tr>
<tr>
<td>Single thesis submitted to both universities</td>
<td>Single thesis submitted to the lead university</td>
</tr>
<tr>
<td>Separate Examination</td>
<td>Joint examination</td>
</tr>
<tr>
<td>Two testamurs</td>
<td>One joint testamur</td>
</tr>
<tr>
<td>Two graduation ceremonies</td>
<td>One graduation ceremony</td>
</tr>
</tbody>
</table>
Example of Cotutelle Testamur
Example of Joint PhD Testamur
Macquarie University Research Excellence Scholarship (MQRES)

• Return airfare from Australia-Destination Country
• Tuition fees at MQ for up to 3 years (if applicable)
• Stipend on MQ campus

Partner University
This will depend on what university you go to. It can vary from a scholarships award, receiving payments as an assistant researcher, funding from a research lab etc.
Cotutelle & Joint PhD
EXTERNAL FUNDING AGENCIES

- Australia Award
- Australian Research Council
- National Health and Medical Research Council AU
- China Scholarship Council
- EU Horizon 2020 Erasmus Mundus Program
- German Academic Exchange Service (DAAD)
- Bolashak Kazakhstan

- National Sciences Foundation US
- National Institute of Health US
- Fulbright
- Research Council Canada
- VIED Vietnam
- Thai Government Scholarship (C9)
- Malaysia Government Scholarship Program
- Indonesian Government Scholarship Program

- PRONABEC Peru
- COLSCIENCES Columbia
- CONACYT Mexico
- CONICYT Chile (pending)
- Sciences Without Borders Brazil
- Chilean Becas Program
- ANII Uruguay (pending)
- Monash Foundation
- Saudi Arabia Government Scholarship
Publications
China Example

Cotutelle & Joint PhD Candidates should acknowledge Macquarie University and any funding.
Interested?
Is this program suitable for you?

- Consider why this program is appropriate for you and research possible partners.
- Talk to your supervisor. They need to agree to this as they will have to work with the academic/researcher overseas to guide you in your PhD appropriately.
- Your supervisor may also be able to suggest an academic or university to approach.
- If your supervisor thinks it’s a suitable program for you and you have an academic/researcher overseas interested then talk to HDRO.
Catherine Schedlich
HDR Coordinator – International Research Training Partnerships

hdrcotutelle@mq.edu.au

+61 2 9850 7997

http://hdr.mq.edu.au/cotutelle
HDR Research: A Student’s Perspective

Cheryl Ware, Faculty of Arts
cheryl.ware@mq.edu.au
Dealing with Impostor Syndrome

• It’s a marathon, not a race

• Every project is different

• People have taken different paths to get here

• Remember that you deserve to be here!

Who do you ask for advice/information?

- Your supervisor
- Departmental HDR Director
- Departmental administrators
- Other postgraduate students
- Student representatives for your department, faculty, senate, student representative committee
- Funding: conference websites – apply early!
Social networks and events

- Desk space in Y3A: arts-hdr-y3a-students@googlegroups.com
- “Shut up and work” sessions
- Departmental seminars
- Postgraduate seminar series
- Three minute thesis
- thesiswhisperer.com
Invitation: Macquarie University HDR and MRes Welcome

You are warmly invited to attend the Macquarie University HDR and MRes welcome function!

This will be an excellent opportunity to meet and network with other postgraduate researchers and staff in a friendly and supportive environment.

The event will be held on **Friday, February 26 at 12.30PM in Level Three of Macquarie University's Campus Hub (Building C10).**

It will begin with a welcome from the Deputy Vice-Chancellor (Students and Registrar) Deidre Anderson, followed by nibbles and drinks.

Please RSVP by clicking **here** before Friday, February 19 for catering purposes.

For more information, please contact: postgradwelcome@gmail.com

We look forward to seeing you all there!

Postgraduate representatives, Student Representative Committee
Have fun!

Enjoy the time you get to work on your own project, attend conferences, and share your research and ideas in supportive and stimulating environments.
MORNING TEA
Research Training Resources

Dr Juliet Lum
Head, HDR Learning Skills
What are HDR Learning Skills?

- Writing a doctoral thesis
- Presenting to academic and other audiences
- Publishing in academic journals

Research Literacy
Research Writing Courses

• discipline-flavoured: 
  Science, Social Science, Humanities

• 6-8 week courses (2 hour class / week)

• many writing tasks

• feedback on writing
Research Writing Groups

- discipline-specific
- 4-6 participants/group
- individualised feedback
- training in peer review
Research Writing support
Stand-alone events

Lectures/workshops on research writing & publishing

Write Now sessions

Writing Retreats
Oral presentation training

Oral Presentation workshops

Conference Presentation courses (6 weeks)

3 Minute Thesis training

Mock presentation sessions
Academic Literacy Online resources

![STUDY WISE](http://www.students.mq.edu.au/support/learning_skills/studywise)

<table>
<thead>
<tr>
<th>Starting at uni</th>
<th>Skills and strategies for success</th>
<th>Writing your assignment</th>
<th>Types of assignment</th>
<th>English language resources</th>
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<tbody>
<tr>
<td>Getting off to a good start</td>
<td>Thinking critically</td>
<td>The assignment process</td>
<td>Essay</td>
<td>Academic Language Quiz</td>
</tr>
<tr>
<td>University 'culture'</td>
<td>Taking notes</td>
<td>The assignment task</td>
<td>Professional and technical report</td>
<td>Common grammar mistakes</td>
</tr>
<tr>
<td>Academic study</td>
<td>Reading and writing</td>
<td>Reading for your assignment</td>
<td>Research report</td>
<td>Strategies to improve your English Grammar</td>
</tr>
<tr>
<td>Lectures and tutorials</td>
<td>How do I manage my time?</td>
<td>Strategies for good writing</td>
<td>Case study</td>
<td>Vocabulary in academic writing</td>
</tr>
<tr>
<td>Learning online</td>
<td>What is research?</td>
<td>Writing drafts</td>
<td>Critical review</td>
<td>Word order</td>
</tr>
<tr>
<td>Communicating with lecturers and tutors</td>
<td>Doing research</td>
<td>Referencing your sources</td>
<td>Annotated bibliography</td>
<td>Spoken vs written English</td>
</tr>
<tr>
<td>Working in groups</td>
<td>Quantitative and Qualitative Research</td>
<td>Editing and proofreading</td>
<td>Literature review</td>
<td></td>
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<tr>
<td></td>
<td>Preparing for exams</td>
<td></td>
<td>Example assignments</td>
<td></td>
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<tr>
<td></td>
<td>Preparing for LAW</td>
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</table>

http://www.students.mq.edu.au/support/learning_skills/studywise
To self-enrol, go to: http://ilearn.mq.edu.au/enrol/index.php?id=12928
Research methods and skills

- **Research methods training**: faculty/department based
- **Finding & managing literature**: library training courses and online resources
- **Statistical Consulting Service**: Mondays 11am-2pm E4A 529. Contact A/Prof Peter Petocz
- **Research tools training**: (eg NVivo, SPSS, EndNote, Thesis formatting) Online guides, some FTF courses organised centrally
Other recommended resources

Elsevier Publishing Campus’ College of Skills Training:  
Online lectures and interactive courses on every aspect of research publication

Purdue Online Writing Lab (OWL): https://owl.english.purdue.edu/
Accessible advice and online activities to improve your academic writing

Vitae’s Doing Research resources: https://www.vitae.ac.uk/doing-research
Advice for researchers, starting from new PhD candidates, on conducting research and planning beyond

Epigeum Research Master Skills Course
iLearn unit with modules on research methods, writing & publishing, research integrity, research careers and more
Email hdrlearningskills@mq.edu.au for access
Asked to teach?

Tutoring Induction Program (TIP), including:

• New to teaching: The first tutorial
• Managing the university classroom
• Teaching in iLearn for tutors
  and lots more!

FTF or online delivery

Workshops are free for MQ staff!

Contact your Faculty’s Associate Dean, Learning and Teaching:

Arts: peter.keegan@mq.edu.au
FBE: leigh.wood@mq.edu.au
FoHS: mitch.parsell@mq.edu.au
FSE: jenny.donald@mq.edu.au
FMHS: panos.vlachopoulos@mq.edu.au
HDR Learning Skills online

HDR Learning Skills ilearn unit
• seminar recordings & slides
• announcements about new workshops

HDR Workshops webpage
Listing and registration for all courses
First come first served!

HDR Learning Skills website
General info and links ...
HDR Learning Skills website:
www.hdr.mq.edu.au/information_for/current_candidates/hdr_support
# 2016 HDR Workshops and Courses

The University offers a range of on-campus HDR training workshops and courses including: Research Writing Courses, Writing Retreats, Oral Presentation Training; Research Methods workshops; Grant Writing, Thesis Writing & Publication seminars; and Personal & Professional Development training. Many of the courses are free for current MQ HDR candidates; for those which attract a fee, interested candidates should consult their Faculty HDR Office about funding options, eg using HDR research training funds.

Materials and recordings of some of the HDR workshops are available from the HDR Learning Skills iLearn unit. To self-enrol into the unit, click here. Members of this iLearn unit will receive notification when new courses/workshops are available for registration.

The 2016 calendar of HDR workshops is located below (most courses will start taking registrations in late January). Please note that dates of workshops are subject to change. Numbers for HDR workshops are strictly limited and registration is essential. Students who do not register may not be able to attend.

## March

<table>
<thead>
<tr>
<th>Date</th>
<th>Workshop</th>
<th>Time</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/03/2016</td>
<td>23 (research data) Things (HDR researchers and supervisors)</td>
<td>12:30 PM - 01:30 PM</td>
<td>Webinar</td>
</tr>
<tr>
<td>02/03/2016</td>
<td>Team-based supervision (for HDR Supervisors)</td>
<td>01:00 PM - 02:00 PM</td>
<td>E6A 116</td>
</tr>
<tr>
<td>02/03/2016</td>
<td>Endnote Basic for PC</td>
<td>02:00 PM - 04:00 PM</td>
<td>Library Training Room M4.02 (Level 4)</td>
</tr>
<tr>
<td>09/03/2016 - 19/04/2016</td>
<td>Science Research Writing Basics Course</td>
<td>10:00 AM - 12:00 PM</td>
<td>E6A 357</td>
</tr>
<tr>
<td>09/03/2016 - 13/04/2016</td>
<td>Conference Presentation Course for Science</td>
<td>09:00 AM - 12:00 PM</td>
<td>E4A 323</td>
</tr>
<tr>
<td>11/03/2016</td>
<td>Exploring Open Education Resources (OERs) to support thesis writing (for HDR Supervisors and candidates)</td>
<td>01:00 PM - 02:00 PM</td>
<td>E6A 116</td>
</tr>
<tr>
<td>15/03/2016</td>
<td>Round table: challenges in HDR candidature</td>
<td>12:30 PM - 01:30 PM</td>
<td>E6A 116</td>
</tr>
<tr>
<td>16/03/2016 - 04/05/2016</td>
<td>Humanities Research Writing Basics</td>
<td>10:00 AM - 12:00 PM</td>
<td>WRA 197</td>
</tr>
<tr>
<td>17/03/2016 - 21/04/2016</td>
<td>Writing for Publication in Social Science</td>
<td>10:00 AM - 12:00 PM</td>
<td>XSB 251</td>
</tr>
<tr>
<td>22/03/2016</td>
<td>Survey Design using Qualtrics</td>
<td>10:00 AM - 01:00 PM</td>
<td>Library Training Room M4.02 (Level 4)</td>
</tr>
<tr>
<td>23/03/2016</td>
<td>SPSS Introductory Course</td>
<td>09:30 AM - 04:30 PM</td>
<td>Library Training Room M4.02 (Level 4)</td>
</tr>
<tr>
<td>30/03/2016</td>
<td>NVivo v11 full-day workshop (for PC)</td>
<td>09:00 AM - 04:00 AM</td>
<td>Library Training Room M4.02 (Level 4)</td>
</tr>
<tr>
<td>31/03/2016</td>
<td>Thesis Formatting Workshop (for PC)</td>
<td>09:30 AM - 04:00 PM</td>
<td>Library Training Room M4.02 (Level 4)</td>
</tr>
</tbody>
</table>

## April

<table>
<thead>
<tr>
<th>Date</th>
<th>Workshop</th>
<th>Time</th>
<th>Venue</th>
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</thead>
<tbody>
<tr>
<td>05/04/2016</td>
<td>Endnote Basic for PC</td>
<td>02:00 PM - 04:00 PM</td>
<td>Library Training Room M4.02 (Level 4)</td>
</tr>
<tr>
<td>06/04/2016</td>
<td>Endnote Basic for Mac</td>
<td>10:00 AM - 12:00 AM</td>
<td>Library Training Room M4.02 (Level 4)</td>
</tr>
<tr>
<td>07/04/2016</td>
<td>Mental Health and HDR</td>
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</tbody>
</table>

HDR Workshops & Courses webpage: https://hdrworkshops.mq.edu.au/
HDR Learning Skills iLearn unit

To self-enrol, go to:
Your HDR Learning Advisors

Social Science: Dr Florence Chiew
florence.chiew@mq.edu.au
X5B 239

Science: Dr Jennifer Rowland
jen.rowland@mq.edu.au
E8B 309

Humanities: Dr Michelle Jamieson
michelle.jamieson@mq.edu.au
W6A 112
HDR Writing Efficacy survey

Measuring changes in HDRs’ writing confidence throughout candidature

Conducted by Dr Adéle Thomas
adele.thomas@mq.edu.au

Please submit your survey in the box at the EXIT

Or complete online https://goo.gl/yjeLGj
Questions or Suggestions?
please email HDRLearningSkills@mq.edu.au
Career and Employment Service & HDR Professional Skills Development Program
2016
Career and Professional Development support for HDR students

Two areas to help you with Developing and Managing your Career

Our mission is to:

• assist students to make informed career decisions
• guide students in developing transferable ‘employability’ skills throughout their studies
• maximise students’ chances of gaining a job that fulfils their potential
What are your future goals?

How will your PhD help you achieve these goals?

What else will you need to do to achieve these goals?

When do you need to start?

Questions to consider ... seriously
Careers and Employment Service +
HDR Professional Skills Development program

- Audit your skills and recognise their value
- Plan how to get the additional skills you need
- Build connections to the world of work
- Find out about career opportunities / types of jobs
  - National & International
  - Academic and Non-academic options
- Develop your evaluation criteria and job search/marketing approach
HDR Professional Skills Development Program

• Professional Skills development for HDR candidates including: employability, career development, networking, job applications & interview preparation

• Workshops and events throughout the year
  - registration via HDR Learning Skills iLearn site

• HDR Professional Skills Needs Survey

• InSpiRE
Inter-university School

InSPIRE
Postgraduate Research Excellence

Three day postgraduate school

• Program features guest speakers, interactive workshops & networking
• Connecting c.400 postgraduate research students from universities in NSW
• Develop skills to pursue collaborative and interdisciplinary research.
• Events will be held at UTS Aerial Centre
• Participants will be required to pay c.$150 for the five day conference.
Website: HDR Professional Skills

- Creating content
- Information, links & resources …
  e.g. career development, labour market stats, networking, entrepreneurship, job application & interview preparation

http://www.hdr.mq.edu.au/information_for/HDR_support_and_development/hdr_professional_skills_program
Career and Employment Service …
We’re available to you

Tailored individual career consultations – C7A (MUSE building)

• Open Mon – Fri 9am – 5pm (year round)
• Job search support, Application & resume help, Career advice
• Mock interviews and online resume/application review service

Jobs on and off campus

• CareerHub: https://www.careerhub.mq.edu.au

Connecting with employers (register via CareerHub)

• Employer presentations (year round)
• Careers Fair (Sem 1 & 2)
Some useful resources

Vitae.ac.uk - http://www.vitae.ac.uk/
Professional and career development site for doctoral researchers and research staff in higher education institutions and research institutes.

Phds.org - http://www.phds.org/
Academic jobs database and excellent resources on networking, writing a resume, interviewing and writing grants.

Academia.edu - http://academia.edu/
A platform for academics to share research papers.

Researchresearch.com - http://www.researchresearch.com/
Leading source of news and funding opportunities around the world.

Academiccareers.com - http://academiccareers.com/
Includes teaching, professional and administrative positions at universities, research institutes, (community) colleges and schools around the world.

Social media resources
Handbook of social media for researchers and supervisors.
Twitter (#phdchat)
http://www.researchgate.net/
http://www.methodspace.com/
Academic blog portal - http://www.academicblogs.org
PhD blog - http://phdblog.net/
My exciting PhD journey! - http://elenaphd.wordpress.com
Takeaways from today….

- Start thinking about your future now (contact us for help!)
- Get involved, contribute and start early
- Respond - HDR Professional Skills Development Program survey
- Register for CareerHub
  - Select ‘Current Post Graduate Student Registration’ under ‘First time here?’
  - Set up account using your MQ Student OneID
- Come along to the Careers Fair 16 March 2016 register via CareerHub

Career and Employment Service
C7A Muse building Ph: 9850 7372
Email: careers@mq.edu.au
Careers website - www.careers.mq.edu.au
www.facebook.com/macquarieuniversitycareerservice

HDR Professional Skills Development Program
Ph: 9850 8725
Email: sally.purcell@mq.edu.au
Thank you
What can your library do for you?

MACQUARIE UNIVERSITY LIBRARY SERVICES
FOR HIGHER DEGREE RESEARCH STUDENTS
LIBRARY SERVICES FOR HDR STUDENTS

- About the Library
- Research Consultations
- Borrowing & Study Spaces
- Getting Material from other Libraries
- Organising your Research
- Getting your Thesis Online
- Training and Help
Individual Consultations

YOUR RESEARCH LIBRARIAN CAN PROVIDE:

- An introduction to relevant information resources.
- Strategies for effective database searching.
- Advice on setting up and managing search alerts.
- Help locating high impact journals.

Find your Research Librarian on the Library website.
Borrowing

BORROW AN UNLIMITED NUMBER OF BOOKS FOR 16 WEEKS (PLUS 5 RENEWALS)

AUTOMATED RETRIEVAL COLLECTION REQUESTS VIA MULTISEARCH

ONLINE ACCESS TO BORROWING DETAILS VIA MULTISEARCH INCLUDING HOLDS AND RENEWALS
Higher Degree Researchers
Study Space (Level 5)

Apply online for access.

- Swipe card access.
- Over 130 seats.
- Desktop power for laptops.
- Free daily lockers.
- Vending machine.
- Macquarie wireless network access.
Interlibrary Loans

If we don’t have it, you can request it...

Borrow from other libraries.

E-documents delivered to your desktop.

Suggest a new purchase.
Research support

To learn more about research support contact your Research Librarian.

Early Career Researcher support
The Library provides targeted research support and services throughout the research cycle.

Subject & Research Guides
To help you with researching, referencing and doing your assignments

Researching your assignment
Information skills such as finding and analysing resources, and database use

Track your research

Measure research impact and influence

Macquarie University ResearchOnline
Macquarie University's open access digital collection

Research data management
Find out more about research data management and showcase your research data.

InfoWise
Online research and information literacy support tool.
Managing your Research

Bibliographic Referencing Software
Last Updated: Feb 6, 2016 | URL: http://libguides.mq.edu.au/referencing-software | Print Guide | RSS Updates

Introduction | EndNote for PC | EndNote for Mac | EndNote & Law | BibTex | Mendeley | Zotero | Other Programs | Comparison of Programs

Introduction

Citations

A citation provides information needed to locate a book, journal article, or other resource. These are usually listed in a bibliography, index, or database.

**Book:** Generally, a book citation would include author, title, place of publication, publisher, and date of publication.

-Author's name
-Title of Book
-Place of publication
-Publisher
-Date of publication

**Journal article:** Generally, a journal article citation will include author, title of the article, title of the journal in which the article appeared, volume number, issue number, date of publication, and pages on which the article appeared.

-Author's name
-Title of Article
-Journal name
-Vol. (issue)
-Date of publication
-Page numbers

Different disciplines may use different forms of the reference.

How to use this LibGuide

Most bibliographic management software allows you to:

- Create bibliographic records for your citations, either by manual entry or electronically, mainly from databases and library catalogues.
- Manage this data by allowing the addition of personal notes, attachments, and sorting of records.
- Link to word processing documents to insert in-text or footnote citations and construct bibliographies.
- Provide a range of citation styles.
- Provide a range of formats (book, journal article, book chapter).

Macquarie University has a licence for a bibliographic management software packages:

- EndNote

This LibGuide provides information about this application and other free software that has similar functionality.

Look at the information given for each of the software products, particularly note any information under Issues and Technical Information that may pertain to your situation. Check information under the software description and then look at the support guides for specific products before deciding on the software you wish to use.

Citation Styles

The Library Referencing LibGuide provides examples of different citation styles.

Ask a Librarian

Need HELP with your assignment or research?

- Call us on 1800 300 753
- Email us
- Chat with us
- Visit us in person at the information desk in the Library

Research Librarians provide research consultations for in-person, phone, and email assistance.
Finding Theses Online

ResearchOnline @ Macquarie

Trove for other examples
Need Help?

**Tours:** Monday 22nd – Friday 4 March
Monday to Friday 2.15pm, 3.15pm

**Workshops** are available to help you with:
- Using Research Databases
- Organising your research (EndNote)

**Individual Consultations** with your Research Librarian

**Online:**
- EndNote and Mendeley tutorials and guides
- Subject and Research Guides
Physical Opening Hours
SESSION 1 – CHECK LIBRARY WEBSITE FOR BREAK HOURS

Monday – Friday:
Levels 1 & 2: 8.00am – 10.00pm
Levels 3, 4 & 5: 7.00am – 1.00am

Saturday & Sunday:
Levels 1 & 2: 10.00am – 6.00pm
Levels 3, 4 & 5: 10.00am – 1.00am

Services end at 10pm on week days and 6pm on weekends.
See you at the library
Campus Wellbeing and Support Services

2016
Services for students
Campus Wellbeing and Support Services

Health and wellbeing literacy programs

Grievance reviews

Counselling & psychological services (CAPS)

Disability support

Student advocacy, care & support

Welfare support

Emergency care & response

Religious Services / Chaplaincy
Other wellbeing focused supports

- Medical Service
- Residential advisors
- Elders in residence (Warawara)
- Mentoring programs
- Careers Service
- Queer Space
- Peers / Student groups
- Sport and Aquatic Centre
- Women’s Room
- Mentoring programs
- Residential advisors
- Elders in residence (Warawara)
Respectful Relationships

Ensure PERSONAL safety

Macquarie University has a lower than average crime rate
If you are victim of a crime report it
Macquarie University has many places for support

<table>
<thead>
<tr>
<th>Macquarie University Services</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Security</td>
<td>(02) 9850 9999 (Emergency 24/7)</td>
</tr>
<tr>
<td>Campus Wellbeing and Support Services:</td>
<td>(02) 9850 7497 (Mon-Fri 8am-6pm)</td>
</tr>
<tr>
<td>1800 Care MQ: 1800 227 367</td>
<td>(24 hour information and support service for Macquarie University)</td>
</tr>
<tr>
<td>Medical Service: 02 9812 3944</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>External Supports</th>
<th></th>
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<tbody>
<tr>
<td>Police 000</td>
<td></td>
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<tr>
<td>Lifeline 131 114</td>
<td></td>
</tr>
<tr>
<td>Domestic Violence Hotline 1800 656 463</td>
<td></td>
</tr>
<tr>
<td>NSW Rape Crisis (02) 9819 6565 or 1800 424 017 (if phoning from outside of NSW)</td>
<td></td>
</tr>
</tbody>
</table>
24 hour support available

ask.mq.edu.au

1800 CARE MQ
Health and wellbeing support for students 24/7
mq.edu.au/wellbeing
Online Programs for Students

University Wellbeing Course

The University Wellbeing Course is designed to teach practical skills for managing symptoms of stress, anxiety, worry, low mood, and depression.

- Welfare Service
- Religious Services
- Medical Services

Looking after the health and wellbeing of the campus and community.
Thank you

Campus Wellbeing and Support Services
Level 2, Lincoln Building, C8A
P: 9850 7497
mq.edu.au/wellbeing
HDR Mentors Program

Kim Tan, Project Manager & Mo Haque, Project Assistance
Office of the Dean, HDR
Strategic Research Framework: 2015-2024

Key objective 1:
Accelerate World-Leading Research Performance

Key objective 2:
Prepare world-ready higher degree research candidates

Key objective 3:
Engage as a world-recognised research collaborator of choice

Key objective 4:
Deliver research with world-changing impact
HDR Mentors

Purpose & Aim

- Increase formation of research community, reduce sense of isolation, increase intellectual climate
- Improve peer level support, foster a scholarly community between MRes and PhD students
- Improve HDR student experience, promote feeling of belongingness
- Create networking opportunity between MRes, PhD students and faculty staff members

To create a peer to peer platform to support and enhance the research quality, capability and experience of the HDR students
HDR Mentors
Dimensions of HDR Mentors

- Building research network
- Skills development
- Linking Alumni and Industries
- Tackling current issues: PhD employability
- Peer to peer support
- Developing social integrity
Functional wings of HDR Mentors

Mentoring

HDR Mentors

HDR Student Group (HDR Lounge)
 HDR Mentors

Background

- Program started in May 2015
- PhD first year with MRes background
- Limited positions available
- Aim to support MRes year 2 candidates
HDR Mentors

• Sessions for MRes Year 2
  • MRes experience at mid point
    • Writing
    • Publications
    • Preparing a timeline
  • Thesis submission challenges
    • Getting support
    • Managing the draft
    • Preparing a timeline
    • Formatting challenges
    • Referencing
    • Printing

• Mentors shared their experience and reflection in their MRes journey
• One to one support to mentees along their the MRes journey
HDR Mentors

What we plan for this year

- Linking up with Alumni
  - Alumni networking event
  - Workshop prior to event
- Linking up with Industries
  - Industry event
  - Workshops prior to event
HDR Mentors

Going forward

• Information session & recruitment drive
• All HDR candidates
• No limits to positions
• A range of activities, events and programs
• Suggestions and new ideas
<table>
<thead>
<tr>
<th>Events 2016</th>
<th>Date</th>
<th>Time</th>
<th>Venue</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes Mentor Interview</td>
<td>8-29 JANUARY</td>
<td>12-Mar</td>
<td>CBA311</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>MRes Mentor Training Day</td>
<td>8-Feb-16</td>
<td>9-4.30pm</td>
<td>CSAS01</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>MRes Mentor Program - Kick off</td>
<td>22-Feb-16</td>
<td>2PM-4PM</td>
<td>Macquarie Theatre</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>HDR Lounge Welcome Lunch</td>
<td>3rd March 2016</td>
<td>12.30PM - 2PM</td>
<td>Macquarie Theatre Courtyard</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>HDR Lounge: Presentation skills practice day</td>
<td>31-Mar-16</td>
<td>12PM - 2PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>HDR Mentors Recruitment</td>
<td>May</td>
<td>Yet to be determined</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>HDR Mentors: Training</td>
<td>June</td>
<td>Yet to be determined</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Academic Foundation Program</td>
<td>July</td>
<td>Yet to be determined</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>HDR Lounge: Presentation skills practice day</td>
<td>2-Sept-16</td>
<td>12PM - 2PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>HDR Lounge: Presentation skills practice day</td>
<td>4-Nov-16</td>
<td>12PM - 2PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>MRes Year 2: Starting your thesis year</td>
<td>10-Mar-16</td>
<td>12PM-2PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
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<tr>
<td>MRes Year 2: Thesis submission challenges</td>
<td>3-Aug-16</td>
<td>12PM - 2PM</td>
<td>W6A 107</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Alumni Networking Workshop (limited to PhD)</td>
<td>9-May-16</td>
<td>12PM-2PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Alumni Networking event (limited to PhD)</td>
<td>16-May-16</td>
<td>4PM-6PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Employment opportunity for PhD at MQ: Workshop</td>
<td>27-Jun-16</td>
<td>12PM-1PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Employment opportunity for PhD at MQ: Forum</td>
<td>4-Jul-16</td>
<td>10AM-5PM</td>
<td>CSC Forum or T1</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Alumni Networking Workshop (for both MRes and PhD)</td>
<td>14-Oct-16</td>
<td>12PM-2PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Alumni Networking event (for both MRes and PhD)</td>
<td>20-Oct-16</td>
<td>4PM-6:30PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Industry link up: Workshop</td>
<td>Yet to be determined</td>
<td>Yet to be determined</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Industry link up: Event</td>
<td>16-Nov</td>
<td>4PM-6:30PM</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Social event: Pot luck</td>
<td>Yet to be determined</td>
<td>Yet to be determined</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>Day trip</td>
<td>Yet to be determined</td>
<td>Yet to be determined</td>
<td>Yet to be determined</td>
<td>HDR Mentors</td>
</tr>
<tr>
<td>HDR Lounge: Write Now</td>
<td>Week 11</td>
<td>12-2pm</td>
<td>TBD</td>
<td>HDR Lounge</td>
</tr>
<tr>
<td>HDR Lounge: Write Now</td>
<td>Week 12</td>
<td>12-2pm</td>
<td>TBD</td>
<td>HDR Lounge</td>
</tr>
<tr>
<td>HDR Lounge: Write Now</td>
<td>Week 13</td>
<td>12-2pm</td>
<td>TBD</td>
<td>HDR Lounge</td>
</tr>
<tr>
<td>HDR Lounge: Write Now</td>
<td>Week 14</td>
<td>12-2pm</td>
<td>TBD</td>
<td>HDR Lounge</td>
</tr>
</tbody>
</table>
A platform for HDR students to practice, share and enhance knowledge
HDR Lounge

Academic events: Presentation skills
HDR Lounge
Academic events: Write Now!!

Break the

• Weekly session: every Wednesday, starting from March
• 12-2pm, W6B 357
• Writing Consultants available
HDR Lounge
Social events: Cultural Sharing
HDR Lounge
Welcome lunch
Thursday, 10 March 2016
Get involved!

HDR Mentors
C5C Room 312
Office of the Dean, HDR
HDR Men
Email: hdrmentors@mq.edu.au

HDR Mentors website will be available end of March, with events plans, details and dates
Student Representative

Jacqueline Mackaway, HDR Student representative
PhD Candidate, Faculty of Human Sciences
Email: jacqueline.mackaway@mq.edu.au
Faculty HDR Representatives

**Arts**
- Associate Dean, HDR: Dr Andrew Alter
- Faculty HDR Manager: Maryanne Hozijan

**Business & Economics**
- Associate Dean, HDR: Prof Lorne Cummings
- Faculty HDR Manager: Agnieszka Baginska

**Human Sciences**
- Associate Dean, HDR: A/Prof Judith Homewood
- Faculty HDR Manager: Robyn Bishop

**Medicine & Health Sciences**
- Associate Dean, HDR: Prof Roger Chung
- HDR Administration Officer: Laura Newey

**Science & Engineering**
- Associate Dean, HDR: A/Prof Tracy Rushmer
- Faculty HDR Manager: Jane Yang

**MGSM**
- Director, HDR: Dr Vito Mollica
- Research Office Executive: Kerry Daniel
University Support for HDR Students

Professor Nick Mansfield
Uni support for HDR Students

**Infrastructure support**
Faculty operating funds (academic technical & administrative staff, general facilities) via the Faculty Funding Model (FFM)
Major and minor capital works and major equipment and facilities are funded through specific University allocations
General infrastructure (Library, IT, animal facilities, mechanical & electrical workshops, HDR support services etc) are supported through University Office budgets

**Project support**
Faculty support through the HDR component of the FFM
Funding via Postgraduate Research Fund (PGRF - Research Grants)
External funding support

**Life support**
Australian Postgraduate Awards, APAIs, International Postgraduate Research Scholarships
Macquarie University Research Excellence Scholarships
Sponsored scholarships
Postgraduate Research Fund

Competitive Grants Scheme
▪ Requires written (typed) application

One Grant tenable during HDR candidature (before thesis submitted)
▪ Up to $5,000 per candidate

The Primary Goal:
▪ To enhance HDR student experience and add value to (improve the Quality of) HDR thesis. Note PGRF funding is NOT to be used for funding the CORE expenses of the project
▪ Alignment with MQ Strategic Research Framework

Skill Development:
▪ Exposure to competitive research grant process (with the supervisor’s guidance)
▪ Experience in the preparation and justification of budgets
▪ Exposure to peer-review
Completion

The University receives funding from the Australian Government for HDR students based on a research training performance model which includes HDR completions (50%) external research funding (40%) and refereed publications (10%)

The Faculty does not receive any funding for HDR students beyond 3 years for PhD and 2 years for MPhil

Both the University and you are making an extremely large investment in your HDR program and your future career
University Support for Student Inventors

WHAT YOU NEED TO KNOW ABOUT INTELLECTUAL PROPERTY (IP)

Anna Grocholsky: Director, Commercialisation and Innovation

25 February 2016
Commercialisation
THE CONCEPT OF INNOVATION

Turning ideas into products (reality) that people want and are willing to pay for.
Intellectual Property (IP) is a product of the (creative) mind that can be protected by law.

The holder of this legal entitlement (the owner) has **exclusive rights** in relation to the subject matter of the IP.

These **exclusive rights** may be potentially commercially valuable and therefore:

- Can generate research income.
- Provide the most efficient mechanism to transfer research results to our stakeholders and the community.
- Enhance impact of publications.
- Can be great for your career.
Why is the University interested in IP?

Under the *National Principles of Intellectual Property Management for Publicly Funded Research* the University is legally required to exploit the results of publicly funded research for the benefit of Australia.

The approach facilitates benefits for the inventors, the institution and the Australian and international community.

An individual’s experience in IP protection and commercialisation adds significantly to employability in many fields.
What is Intellectual Property?

Formally registered:
- Patents
- Registered Designs
- Registered Trade Marks
- Plant Breeders Rights

Not registered:
- Copyright
- Confidential Information & Know How
- Trade Secrets
What can be patented?

“To be issued, the invention described just has to be novel, non-obvious, and useful.” USPTO

An invention can be a small component or an improvement of a known thing...

A synergy of known things...

A new use...

Software if new in function

Business methods

Hierarchy (golden egg) of patents are compositions, pre-cursors, platforms.

e.g. a formulation that could be a brick, a tile, a wall etc.
or a mandatory component

You are experts - you very well could think what you are doing is obvious; maybe not
Examples of IP that is not formally registered? (protected by copyright)

- Music scores
- Know-how
- Artistic works
  - inc. artwork, designs, logos
- Business methods
- Manuals
- Software code
- Names – domain names, business names...
Questions I ask:

Is there a need for this OR would this benefit the community if this was developed?

If so – should this be protected?

How can we get this made/developed etc.

Who should we partner with?
Often a combination of IP is commercialised together in a bundle...
IP Policy

IP OWNERSHIP AND RETURNS

**Students** – own their IP (unless assigned)

**HDR Students** – the University asserts ownership

**Staff** – the University asserts ownership

- **We pay!**
- **IP Policy;**
  (split 50:50)

- Research team
- University
Report your idea

HOW TO LET US KNOW OF YOUR IDEAS

http://www.mq.edu.au/research/commercialisation/research-commercialisation/innovators
PROCESS

- Contact the Office of Commercialisation
- Complete an Innovation Disclosure form
- Meeting
- If under licence or option we confer with the licensee or option holder
- IP Commercialisation Advisory Committee
Yes, one needs to publish.

Patenting options/strategies are limited and sometimes opportunities are completely diminished if there is a prior disclosure...

You can do both – patent and publish

[Waiver = with the exception of obligations under agreement]
Commercialisation folk are a service providers for you.

Me, and I think my colleagues and counterparts lack ESP though!

We can move fast, if we know.
We can help in many ways

IP Development Fund

Inventor “Business Development” Grant

Research and industry networks/contacts

Contact the **Office of Commercialisation** for more information.
Got an invention or a question?

Contact the **Office of Commercialisation** for more information.

**Anna** Grocholsky  
9850 4599  
anna.grocholsky@mq.edu.au

**Bel** Coppock  
9850 4598  
belinda.coppock@mq.edu.au

Got an invention? You have our attention.
THESIS BY PUBLICATION

25th February 2016  Associate Professor  Judi Homewood, Associate Dean, HDR Faculty of Human Sciences
What is “thesis by publication”?

A thesis by publication may include relevant papers, including conference presentations, which have been published, accepted, submitted or prepared for publication for which at least half of the research has been undertaken during enrolment.

Thesis by publication may be a better fit with disciplines where a research question is answered by work in discrete stages or involves a sequence of related components (e.g., a series of laboratory experiments or production of creative works).
What is “thesis by publication”?  

Although it is not necessary to reformat published works in a thesis, it is not enough simply to bind these publications together. The candidate needs to include a critical introduction to the work, sections that link the papers together, and a concluding section that synthesises the material as a whole. Above all, candidates must consider the coherence of the thesis as a whole, and the way in which each paper contributes to the overall thesis.
Each discipline will have a different number of publications that are acceptable as the substantive foundation for a thesis by publication. As a general rule a candidate will need to have enough papers to support the important findings from the research, presented in a logical and coherent way. Most theses by publication have between 2 and 8 papers in combinations of sole and co-authored papers. These papers will normally form thesis chapters and the chronological publication order may be quite different from the way they are sequenced in the thesis.

As each research project is different, take advice from your supervisory panel, and establish authorship protocols ideally at the beginning of the research and writing process.
Do read the University Authorship protocol:
These papers may be single author or co-authored. The candidate must specify his/her specific contribution. The contribution of others to the preparation of the thesis or to individual parts of the thesis should be specified in the thesis Acknowledgments and/or in relevant footnotes/endnotes. Where a paper has multiple authors, the candidate would usually be the principal author and evidence of this should appear in the appropriate manner for the discipline. Examiners can then assess if the quality and extent of the candidate’s contribution warrant the award of the degree based on the standard criteria.
Thesis by publication is not obligatory so why consider it?

1. Constructive feedback on your work by specialists outside the supervisory panel can be used to improve the manuscripts included in the thesis. You are engaging with a broader community of experts. However remember journal reviewers are chosen for different expertise than are thesis examiners.

2. As a time management strategy so you can avoid doing all the writing in the last six months. Preparing your thesis and preparing papers can overlap as a task.
Thesis by publication is not obligatory so why consider it?

3. It gives experience in writing for publication, dealing with editors, writing rejoinders and pitching articles at the right audience. These are transferable skills.
4. You begin to establish yourself as an authority in the area.
5. Published/accepted papers are good for your CV while you are a candidate and when you graduate.
6. The process of publishing is time consuming. After the PhD is finished there may be obstacles to publishing. Preparing manuscripts in your candidature likely increases the chance the work will get published and might be part of your long term publication plan.
What are the disadvantages?

1. Falling into the trap of thinking that because the work is published it is meets the requirements for PhD.

2. You may have to manage co-authors.

3. The “ouch” factor: reviewers can be harsh, you might need to harden up: desk rejection [where the Editor does not send it to reviewers] or unfair harsh reviewers are possibilities. “Accept as is” is very rare.
Most scientists regarded the new streamlined peer-review process as "quite an improvement."
Tips if considering thesis by publication

Work with your supervisory panel to target the right journal
Is it a good fit for this work:

1. Is a reputable journal that requires peer review? Be warned of Beale’s list/spam invites for journals and conferences.
2. Check aims, scope, editorial board and recent content to check its the right audience.
3. Does it have a realistic impact factor and rejection rate: submit to a journal where it will go to reviewers for constructive feedback and not get a desk rejection.
4. Consider the style of the journal: word limit, referencing style, layout, are there page charges, is it open access

Don’t publish rubbish: examiners make a judgement about the quality of the work against the criteria for a PhD
Call for Papers!
Xth International Conference on
(Conference/Workshop/Symposium)

(Sub-topic of sub-area of an already narrow field of research)

Description:

_______ has recently garnered interest as a separate field of study by the people who do research in it. Latest developments in the field have the potential to improve the lives of EVERYONE ON EARTH FOREVER.

(Some hyperbole)

This ☆ Premier ☆ gathering aims to bring together leading experts to exchange current results and ideas, and drink lots of booze.

The emphasis is on “originality and intellectual rigor”.

(Cut and paste from last year’s call for papers)

Topics include, [but are not limited to]:

(Every possible combination of buzzphrases)

Invited Keynote Speakers!

(List of people whose resumes are disproportionately more exciting than their speaking ability)

Location! Location! Location!

(Haven't you always wanted to go to a beautiful place and spend the whole time inside a convention center?)

(Pictures of sunny beach and/or historical ruins)

Important Dates!

(Paper submission deadline)

(Actual submission deadline)

(Submission deadline if your advisor is famous)

(hey, whatever, we're easy. Just please submit something! We beg you)

Organizing "Committee"

(Senior Professor involved in name only)

(Junior Professors who do all the work and didn't think being a professor would involve staying up all night burning 200 CD-ROMs)

Sponsored by

(Acronym organization)
What is Research Integrity?

Research integrity can be defined as the trustworthiness of research due to the soundness of its methods and the honesty and accuracy of its presentation

- Draft Singapore Statement 2010
Research Integrity
CRITICAL TO ACADEMIC FREEDOM

Academic freedom is the foundation of the University.

It is the right to put forward a position and have that position openly debated.

The principles of Academic Freedom only hold if researchers act with integrity.
Research Integrity
WHY DOES IT MATTER?

• Reliability of research
• University’s reputation
• Reliability of degrees
• Health and safety
• Funding
• Criminal investigation
Responsible Conduct of Research:
- Principles and practices of good research
- Applies to all research

Research Ethics:
- Standards for research with humans, animals and GMO's
The Responsible Conduct of Research

THE MACQUARIE CODE
Principles and Practices

MAIN TOPICS ADDRESSED:

• General principles of responsible research
• Management of research data and primary materials
• Supervision of research trainees
• Publication and dissemination of research findings
• Authorship
• Peer Review
• Conflicts of Interest
• Collaborative research across institutions
Where to get information

The Macquarie Code:
http://mq.edu.au/policy/category.html#research

The Australian Code:

Online resources...
• Epigeum Research Integrity Course on iLearn
• The Lab - http://ori.hhs.gov/thelab
• The Research Clinic - http://ori.hhs.gov/TheResearchClinic
Research Misconduct

**Breach of the Code** – Failure to comply with the code or policy

**Research misconduct** involves all of the following –

- an alleged Breach of the Code
- intent & deliberation, recklessness or gross and persistent negligence
- serious consequences

Examples of research misconduct:

- fabrication, falsification, plagiarism or deception
- failure to declare or manage a conflict of interest
- failure to follow research proposals as approved by a research ethics committee
- wilful concealment or facilitation of research misconduct
Thalidomide and Debendox

CASE STUDY: WILLIAM McBRIDE

In 1961 McBride published a letter in *The Lancet* highlighting the occurrence of birth defects among women given Thalidomide
- Awarded an AO, CBE and other international prizes

Studied the effect of Debendox on birth defects
- In 1981 McBride published a study showing Debendox caused defects in rabbits
- Appeared in a number of court cases against the manufacturer

However, McBride had:
- Falsified the data
- Deliberately published material which was false and misleading
- Published the paper without co-authors’ knowledge

THALIDOMIDE AND CONGENITAL ABNORMALITIES

Sir,—Congenital abnormalities are present in approximately 1.5% of babies. In recent months I have observed that the incidence of multiple severe abnormalities in babies delivered of women who were given the drug thalidomide (‘Distaval’) during pregnancy, as an anti-emetic or as a sedative, to be almost 20%.

Thalidomide deformity

Dr William McBride

Dr Phil Vardy
Why does misconduct occur?

Often not malevolence/bad character but rather **pressure**

**PERSONAL**
- Competitive pressures (scholarships, grants, publications, promotions, peer recognition)
- Time pressures
- Financial pressures (limited research funding, end of scholarship, etc.)

**INSTITUTIONAL**
- Universities want to maximise successful grant applications, HDR completions
- Competition between universities for research funding, scholarly standing, academic staff, postgraduate students
Research Integrity Advisors

• Associate Deans of Higher Degree Research and Research

• RIAs can provide advice on good research practice
  ➢ Talk about issues before they become problems

• RIAs also provide advice about reporting breaches

• If you have concerns:
  ➢ Talk to any RIA, not just in your faculty
  ➢ Talk in hypotheticals
  ➢ Get their help and advice in preparing your complaint
We all have an obligation to report suspected breaches or misconduct.

Discuss your concerns with an Advisor.

Reports made to Director, Research Ethics and Integrity.

Research.integrity@mq.edu.au
Research Ethics

APPLYING FOR ETHICAL APPROVAL AT MACQUARIE
The core of ethical research

Ethical and responsible research (and use of research data) has, at its core, a judicious balancing of benefits against any risks/potential harms.

This means...

Advancement of knowledge
Attainment of potentially significant social and individual benefits

must be balanced against

Protection of vulnerable parties
When the balance is wrong

CASE STUDY: TUSKEGEEE SYPHILIS TRIAL (1932-1970s)

- 600+ African-American men; poor, many illiterate, syphilis-sufferers
- Longitudinal study of untreated disease progression
- Informed consent never given, deceived into participating - offered free medical ‘treatment’, placebo treatments, free autopsies/burials
- By 1940s, it was known that penicillin provided simple, fast, effective treatment, but participants were not treated
- Findings of study published in peer-reviewed journals
- Neither editors/referees/members of medical profession who read articles, questioned ethics of trial
- Even following media publicity after public health official raised concerns, scandal largely ignored by medical profession
## Research ethics oversight

<table>
<thead>
<tr>
<th>Research type</th>
<th>National requirements</th>
<th>Macquarie Committee</th>
<th>Forms, guidelines, information</th>
</tr>
</thead>
</table>
| **Human**     | National Statement on Ethical Conduct in Human Research (2014) | • MQ Human Research Ethics Committees x 2  
• Faculty Committees | 10 meetings/year  
See website |
| **Animal**    | Australian for the care and use of animals for scientific purposes (2013) | • MQ Animal Ethics Committee | 10 meetings/year  
See website |
| **Biosafety** | Office of the Gene Technology Regulator (OGTR) (2000) | • MQ Institutional Biosafety Committee | Virtual meetings as necessary  
See website |

http://www.research.mq.edu.au/research_ethics
Human research ethics
Responsibilities to *human* research participants

Approval must be obtained from an HREC

**Applications are reviewed against the *Four Principles*:**

• **Research Merit and Integrity**
  Justifiable and appropriate

• **Justice**
  Fair recruitment and access to benefits

• **Beneficence**
  Benefit must justify risks

• **Respect for Human Beings**
  Respect human value and autonomy

All work with animals must be approved by the AEC.

**Key principles of working with animals:**

**The 3 ‘R’s**

- **Replacement**
  Methods that avoid or replace the use of animals

- **Reduction**
  Methods that minimise the number of animals used

- **Refinement**
  Methods that minimise the pain, suffering, distress or lasting harm

Your Responsibilities

- Follow the standards
- Get training
- Talk regularly with your supervisor
- Ask if your project needs approval
- Seek advice if you think there is something wrong
- Report breaches
The take-home message

• Be aware of relevant regulation/legislation

• But don’t think of responsible/ethical research as just about regulatory/legal compliance

• Instead, habituate yourself to engaging in continuous reflection on the values implicit in academic research:
  - Does your research project & practice reinforce or undermine these values?
  - Does your conduct reflect ethical engagement with colleagues, co-researchers, supervisors, assessors/reviewers, fellow postgraduates, research participants, animal subjects, etc.?
Contact us
WHERE TO SEEK ADVICE

HUMAN RESEARCH ETHICS
• Ethics.Secretariat@mq.edu.au

ANIMAL RESEARCH ETHICS
• Animal.Ethics@mq.edu.au

BIOSAFETY
• Biosafety@mq.edu.au

RESEARCH INTEGRITY
• Research.Integrity@mq.edu.au
Thank you
Good luck with your research!
Preparing a research thesis

Prof. Julie Fitness
Psychology Department
Faculty of Human Sciences

Presentation at the University HDR Commencement program,
25/2/16
In the beginning:

- The supervisor-student relationship is rather like a marriage.
- It’s relatively long-lasting and involves shared goals, commitment, and trust.
- Can end in separation or divorce (but rare)
- Is fruitful – produces new ideas and research discoveries!
Essentials for a good marriage?

- Basic compatibility in orientation, values, interests, communication styles
- Good communication – clear, open, honest, sensitive
- Listening skills
- Mutual respect and trust – honesty, good manners
What do supervisors and students bring to their relationships?

• Expectations!
• Violated expectations trigger hurt, anger, disappointment, anxiety, guilt…
• What are your expectations of..
  – Your supervisor?
  – Yourself?
  – The PhD process?
What do supervisors expect from students?

• Enthusiasm:
  – energy, passion, initiative

• Commitment:
  – reliability, perseverance

• Willingness to learn:
  – actively seeking and engaging with feedback

• Academic integrity
What do students expect from supervisors?

- **Enthusiasm**
  - interest, encouragement
- **Commitment**
  - reliability, patience, perseverance
- **Willingness to advise and support**
  - provide regular, constructive feedback
- **Academic integrity**
Making the relationship work:

• Clarify expectations
  – of relationship and the thesis process
• Develop an agreed plan of action including scheduled regular meetings
  – Take minutes and confirm details with supervisor
• If things go wrong, don’t wait!
  – seek advice and support from supervisor, or HDR rep in your Department/Faculty, or University HDR (Dean), or counselling services.
Plan from Day One

• Identify an interesting research question that is of the right size and scope (i.e., will take 3-4 years to answer)
• Prepare a detailed plan for answering this question, including a budget. Seek input from supervisor about feasibility of plan.
• Your plan may change later, but will help now to structure your thinking and organize your time
Importance of goal-setting

• Construct a realistic 3-4 year timeline and set goals with completion dates
  – Set ‘mini-goals’ along the way (and rewards!)
• Allow for unforeseen hiccups and hold-ups (especially when collecting data)
• Remember that problems are NORMAL and to be expected, so treat them as challenges and opportunities – NOT as excuses for giving up!
The mid-thesis slump

- After the first year of enthusiasm, can enter a period of depression, anxiety, and feeling stuck (especially when friends and family start asking ‘haven’t you finished yet?’)
- Take a breather occasionally, achieve small tasks, then re-focus
- Seek support from supervisor and other students – cheer each other up and on..
Managing emotions..

- Completing a research degree is an emotional as well as intellectual process.
- Can expect to feel frustrated, excited, lonely, bored, angry, scared, envious, guilty, overjoyed..
- Beware especially of anxiety and ‘paranoid cognition’ - seek emotional support and take good care of mental and physical health.
The importance of taking control

- Develop support networks with other students
  - Help each other out
- Become involved in Departmental activities
  - attend seminars, organize if necessary!
- Seek opportunities to present and discuss your research
  - conference presentations are not hurdles, they are integral to your academic career, and a means of building lifelong collegial relationships
Writing is everything!

• No matter how brilliant your research, if you can’t communicate your ideas and data clearly it was a waste of time
• Develop a clear, coherent, logical style of writing and seek feedback on what you write from supervisor, friends, colleagues
• Don’t be defensive about constructive criticism – ask for and welcome it!
You WILL need to re-write..

- Obtain professional help with your writing if necessary
- Be prepared to write multiple drafts
- Don’t underestimate the time required to polish your writing – to present your work at its very best, to dazzle examiners and paper reviewers with the eloquence of your arguments.
Getting towards the end..

- Keep abreast of current requirements for submission, examination, etc. – don’t rely on your supervisor to know everything
- Think strategically about potential examiners and discuss with your supervisor – even in 2\textsuperscript{nd} year
- Collaborate closely with your supervisor on your timeline to completion – allow enough time for reading and revising drafts
Final message:

- Enjoy yourself! You’ll never have such fun again.
- The journey may sometimes be tough, but there are rewards along the way that will make it worthwhile.
- At the end, you will have achieved something special that can never be taken away from you.

GOOD LUCK!!
THE ROAD TO COMPLETION
The HDR Thesis Examination Process

Professor Nick Mansfield
Dean, HDR
The HDR Thesis Examination Process

• MQ thesis examination requires 3 examiners for PhD and 2 for MPhil
• Examination is by written report (students in joint PhD programs are required to meet examination requirements of the partner University, which might include an oral examination or public defence)
• In general all examiners are external to the University ~60% are not resident in Australia
• 3 months before your scheduled submission date HDRO contacts your Principal Supervisor requesting nomination of examiners
• Supervisors must consult with you in formulating the list of prospective examiners, including recommendation of examiners and reserve examiners
• It is the University (through PESC/HDRC) which makes the appointment of the examiners, and if there are perceived conflicts of interest the University may seek further nominations from your supervisors (and you)
Choosing PhD/MPhil Examiners

- Examiners should be chosen carefully – they are an important resource and potential influence on your ongoing career. Appropriate examiners are:
  - a significant figure in the field identified through publications
  - a session chair or panellist at a conference presentation you have made
  - an editor/subeditor of a journal in your area
  - otherwise be aware of your work through a seminar/visit to another university or through your supervisors’ networks of colleagues
  - not personally close to you or your supervisors (e.g. no recent joint publications)
Examiners add value by

- making comments on strengths and weaknesses of your thesis and giving suggestions on how to address the latter
- providing a benchmark of quality in the field of your thesis
- commenting on publishable material in the thesis
- subsequently being a reviewer of the work for publication
- subsequently acting as a referee for applications for fellowships/positions or otherwise a mentor
- Note – always ensure contributions by the examiners to the field are appropriately identified and properly referenced
REPORT OF EXAMINATION:  Please tick appropriate boxes.

In my judgement this thesis:

(a) makes a distinct contribution to knowledge in the area with which it deals;  

(b) affords evidence of originality shown either by the discovery of new facts or by the exercise of independent critical power;  

(c) is satisfactory as regards its literary presentation;  

(d) contains a substantial amount of material suitable for publication 

(e) (i) Would you consider this thesis to be in the top 10% of doctoral level research in the field?  

    (ii) Would you consider this thesis to be in the top 5% of doctoral level research in the field?  

(f) How many research theses have you examined?   __________
PhD Exam report (continued)

I recommend: (Please tick ONE only)

☐ AWARD: That the thesis meets all required standards in terms of the nature and quality of work undertaken, and the degree can be awarded without any further work by the candidate, other than the correction of typographical errors and small lapses of expression and presentation in the final copy.

☐ AWARD (AFTER CORRECTIONS): That the thesis meets all required standards in terms of the nature and quality of work undertaken, and the degree can be awarded without further examination once the candidate has made a number of corrections and clarifications in the thesis, as specified in my report. The corrections are to be done to the satisfaction of the university’s Higher Degree Research Committee, and would be normally completed within a period of one to two months.

☐ REVISION and RE-EXAMINATION: That the thesis does not yet meet all required standards for the award of the degree and the candidate should complete a further period of research and writing. Normally under this category a candidate would re-enrol for a period of up to one-year fulltime (or equivalent). The thesis will then be submitted for re-examination.

☐ I am prepared to re-examine this thesis ☐ I am NOT prepared to re-examine this thesis

☐ NOT AWARD: That the thesis does not meet the required standards for the award of the degree, and does not warrant a further period of research and writing.

REQUEST FOR CONFIDENTIALITY:

I do NOT wish my name to remain on Part II of the report referred to the candidate ☐
The Macquarie HDR Thesis Examination Process – key sources

- **HDR Thesis Preparation, Submission & Examination - policy & procedure, from Policy Central**
- **Appointment of Examiners form** (3 months pre-submission, including candidate and supervisor signatures), policy and procedure
- **Submission of HDR thesis for examination form**
- **Digital Thesis Submission** guidelines and the ADT publication project
The HDR Thesis Examination Process

The Macquarie HDR process after thesis submission

• Examiners’ reports are received within 2 months of submission (examiners may recommend award, award with corrections, revise and resubmit, not award)

• Principal supervisor is invited to respond to examiners’ reports and make a recommendation, endorsed by Faculty Associate Dean HDR

• Examiners reports and faculty recommendations are considered by PESC, which forwards a recommendation to HDRC

• HDRC advice and examiners’ reports go to candidate and principal supervisor to guide any further work required

• For corrections up to 2 months is allowed

• In cases where it is determined that the thesis falls within the top 5% of PhD theses in the field (based on examiners recommendations) a Vice- Chancellors Commendation is awarded
Please complete the CCP FEEDBACK SURVEY before leaving.