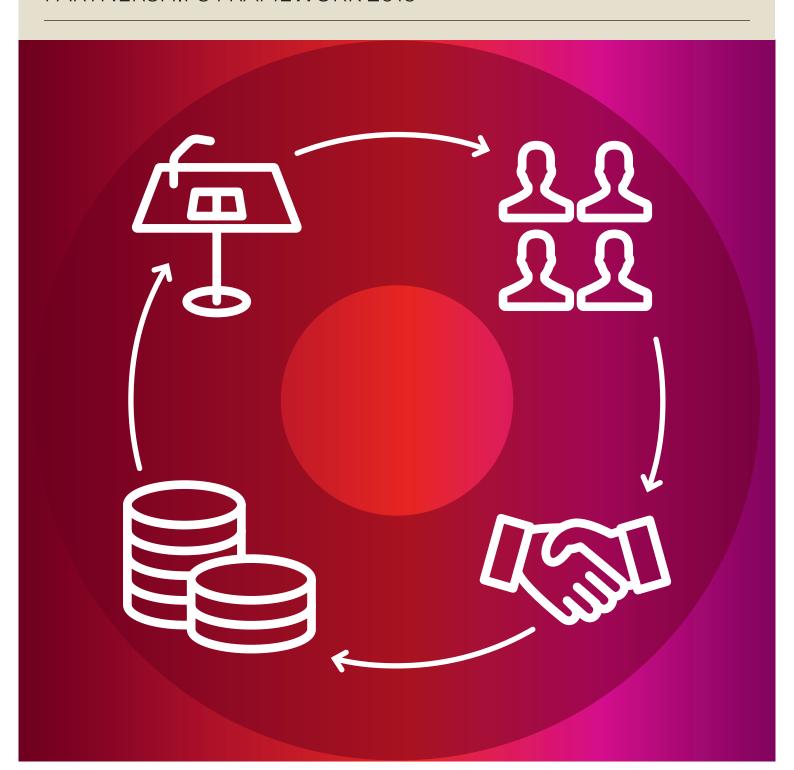


# Follow the leader

INTERNATIONAL RESEARCH TRAINING PARTNERSHIPS FRAMEWORK 2019



2 FOLLOW THE LEADER
INTERNATIONAL RESEARCH TRAINING PARTNERSHIPS FRAMEWORK 3

# Follow the leader: International Research Training Partnerships framework







QUALITY INSTITUTIONAL PARTNERS

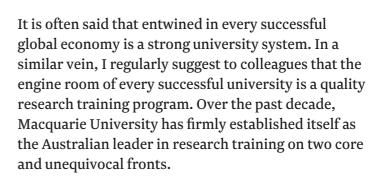
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PHOTOS: All photos by Chris Stacey unless otherwise noted.

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### **FOREWORD**



We were the first university in Australia to introduce the international-standard two-year research training pathway program – the Master of Research (MRes) – as Macquarie's core pathway to higher degree research (HDR) study. This system brings Macquarie into line with practices in Europe and North America, and complements the Chinese undergraduate to higher degree research structure. Secondly, our cotutelle and joint PhD programs are the largest in Australia and reinforce Macquarie's unwavering commitment to preparing world-ready HDR candidates, as well as our fundamental desire to be a world-recognised research collaborator of choice, as clearly expressed in World-Leading Research; World-Changing Impact.

Our leadership standing is further reinforced by the fact that Macquarie was the first non-European university to be accepted as a partner in the International Doctorate for Experimental Approaches to Language and Brain (IDEALAB) consortium. Our global partners in this program include the Universities of Groningen (Netherlands), Newcastle (UK), Potsdam (Germany) and Trento (Italy).

Similarly, in 2015 DAAD (the German Exchange Funding agency) awarded significant funding to Hamburg University (Germany), Fudan University (China) and Macquarie University for a strategic partnership including cotutelle and joint PhD programs. Again, Macquarie is the only Australian university to be awarded such a partnership.

If we are to maintain and strengthen this leadership position, as others attempt to emulate our programs, we must chart a course and navigate an evidence-based path that builds on our strong international research training and partnership foundations, and enables deeper and more extensive collaboration with prestigious and recognised world-leaders.

This International Research Training Partnerships (IRTP) Framework seeks to ensure we continue to lead as we expand our international research training programs with a particular and deliberate focus on quality across four perspectives; candidates, programs, collaborating university partners and funding sources.

#### **Professor Sakkie Pretorius**

DEPUTY VICE-CHANCELLOR (RESEARCH)

Macquarie University has developed its HDR program to become a sector leader in research training.

# Leading the way in research training

# **OUR GLOBAL PERSPECTIVE**

Major changes include the internationalisation of our PhD programs through the cotutelle and joint PhD schemes, an increasing focus on strategic partnerships with international funding agencies, and the introduction of the Master of Research (MRes) as the main pathway to a PhD.

Macquarie's global perspective is central to the development of an International Research Training Partnerships Framework. Deep, durable relationships with international research universities through joint research candidate supervision is a significant priority for the Research portfolio and a core component of our broader strategy to strengthen collaborative partnerships globally.

We have had more than 370 joint and cotutelle PhD enrolments arising from agreements with 150+ universities in more than 35 countries. Partner universities are selected based on already established collaborative research relationships and a combination of factors, including international and national research rankings and/or recognition, relevant disciplinary strengths, program governance and funding support capabilities.

Importantly, cotutelle and joint PhD schemes are open to both international and domestic high-quality PhD candidates. Cotutelle arrangements are of huge benefit to candidates as they provide them with an international experience at a high-ranking partner university, effectively doubling the size of their research networks.

International research training programs deepen and strengthen research collaborations and networks at an individual and institutional level, and foster a higher level of cooperation between researchers in their respective fields through co-supervision. They provide access to new funding schemes and international enrolments, and importantly, create an opportunity to increase joint publications, citation rates and rankings.

Candidates are exposed to different academic environments through joint enrolment and supervision, helping position them as world ready. The programs enhance a candidate's training experience and give them access to the latest research equipment and technologies at two institutions. Candidates are also exposed to international networking opportunities that may expand their future employment opportunities – whether through access to new academic institutions or new industries.

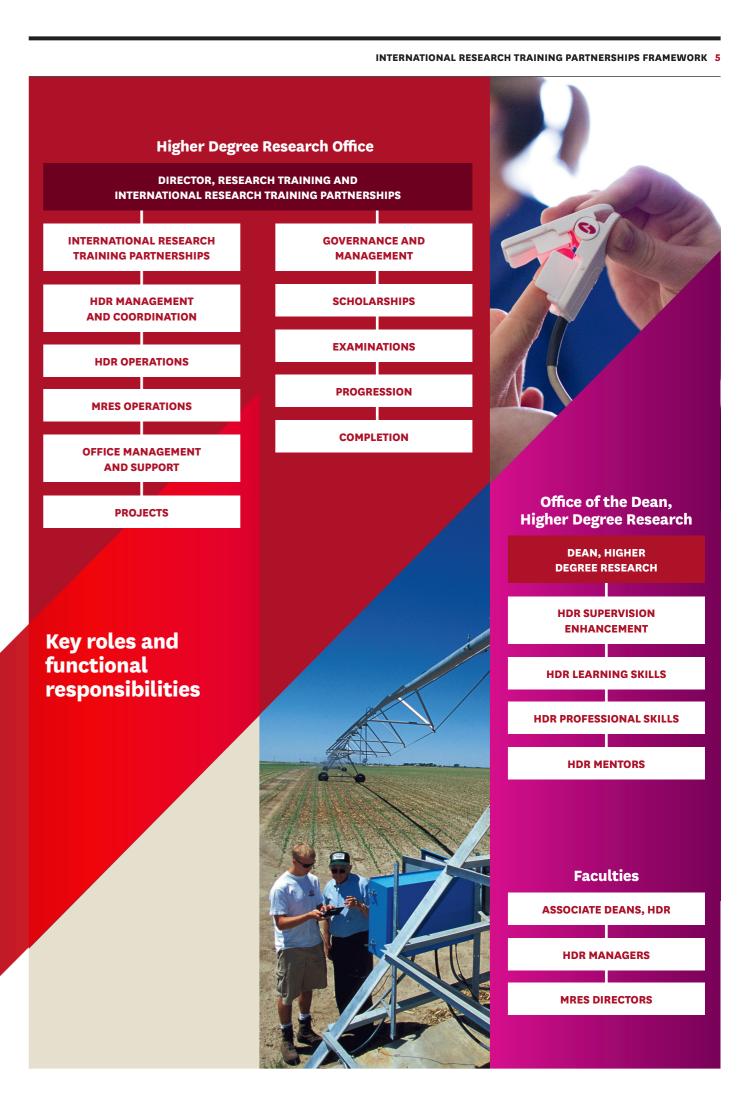
We look forward to working with Macquarie International, our colleagues from across the University and international partners to successfully implement the International Research Training Partnerships Framework as a blueprint for continued leadership in the field – our engine room of future research success.



Doctor Ren Yi
DIRECTOR,
RESEARCH TRAINING AND
INTERNATIONAL RESEARCH
TRAINING PARTNERSHIPS



**Professor Nick Mansfield**DEAN,
HIGHER DEGREE RESEARCH



Our strategic research framework will enable us to deliver world-leading research with world-changing impact.

# Our strategic context

# AN ACCELERATING AND IMPACTFUL PERFORMANCE IN DISCOVERY

Macquarie's 10-year strategic research framework, World-Leading Research; World-Changing Impact, develops our ambitions further by articulating our key research objectives and goals. The preparation of world-ready HDR candidates is a core objective of the framework, as is our desire to engage as a world-recognised research collaborator of choice.

Together, these objectives are central to the International Research Training Partnerships Framework and underpin its development.

# 1. ACCELERATE WORLD-LEADING RESEARCH PERFORMANCE

- **Top-performing staff:** Increase the number and proportion of research-productive staff
- World-leading research concentrations: Build on disciplinary areas of current and emerging research strength and enhance cross-disciplinary capability
- **Growing research investment:** Accelerate growth of external research income to facilitate world-leading research
- **Pervasive best practice:** Continuously improve policies, processes and systems that support the pursuit of excellence and integrity in research and scholarship
- Leading-edge infrastructure: Secure world-leading research infrastructure, facilities and equipment.

# 2. PREPARE WORLD-READY HIGHER DEGREE RESEARCH CANDIDATES

- Attracting quality candidates: Attract high-potential higher degree research candidates
- Inspirational supervision: Provide outstanding supervisory expertise and mentoring
- Transformative research environment: Embed higher degree research candidates in areas of current and emerging strength

- Real-world engagement: Provide opportunities for career-enhancing exposure to industry and the community
- **Global champions:** Provide internationally-aligned degrees with global relevance
- World-class support: Provide personally-enriching experiences and enabling facilities, policies and processes.

# 3. ENGAGE AS A WORLD-RECOGNISED RESEARCH COLLABORATOR OF CHOICE

- Strategic engagement: Pursue local, national and international partnerships to complement and enhance areas of current and emerging research strength
- Deep and authentic collaborations: Build mutually beneficial, long-term engagement with institutional, national and international colleagues
- Synergistic end-user partnerships: Pursue shared goals with end users to maximise delivery of solutions and return on investment
- Streamlined support: Practice efficient and effective facilitation of research collaborations.

# 4. DELIVER RESEARCH WITH WORLD-CHANGING IMPACT

- Discovery for innovation: Strengthen basic research capability to drive discovery and underpin innovation
- **Cross-disciplinary inquiry:** Optimise the opportunities for inquiry across disciplines and structures
- Diversity of impact: Foster an environment that facilitates and values diverse forms of knowledge creation, application, and creative practice to benefit society
- Challenge-focused research: Conduct research that addresses national and global challenges, and delivers significant benefits.





# **Key foundations**

**INTERNATIONAL RESEARCH TRAINING PARTNERSHIPS** 

370+

cotutelle and joint PhD candidates\*

132

current cotutelle and joint PhD candidate enrolments

150+

cotutelle and joint PhD collaborating partners\*

57%

per cent of current candidates with European universities

countries involved in cotutelle and joint PhD arrangements\*

26%

per cent of current candidates with Chinese universities

220+

cotutelle candidate completions\*

14

MRes exchange partners established (a pathway to cotutelle/joint PhD)

76

priority partners

strategic tri-lateral partnerships: MQ-FU-HAM, JLU-MQ-JLU and NU-UG-MQ#

regional partnership tiers strategic, developing and emerging

ONLY

Australian university participating in IDEALAB joint PhD

disciplines involved in current programs

15

joint funding agreements with key international funding agencies

universities with Academic Senate approval for joint PhDs

#Macquarie - Fudan - Hamburg, Jilin – Macquarie – Justus Liebig and Nanjing – Göttingen – Macquarie

45 IDEALAB PhD candidates (including current enrolments)





Maintain and strengthen Macquarie's standing as the provider of the region's leading international research training program



Establish five successful Trilateral Strategic Partnerships for joint PhD degrees (building on the MQ-FU-HAM model)



Double the number of active national and international funding partners



Secure significant industry-based funding sources, including at least one strategic industry partner funding a program of significant critical mass



Establish programs with a critical mass in at least 10 international institutions



Develop a strong and sustainable presence in the United States



Establish at least three multi-institutional joint PhD programs\* of critical mass (building upon the successful IDEALAB model)



Double the number of HDR candidates participating in international research training programs

\*More than three institutions and funded by quality funding agencies (eg IDEALAB Consortium Program)

# **Core framework**

OBJECTIVES, GOALS AND KEY TARGETS

#### **QUALITY PROGRAMS AND EXPERIENCES**

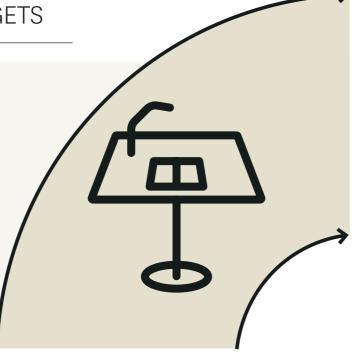
Develop, maintain and partner with leading international research training programs to ensure outstanding experiences.

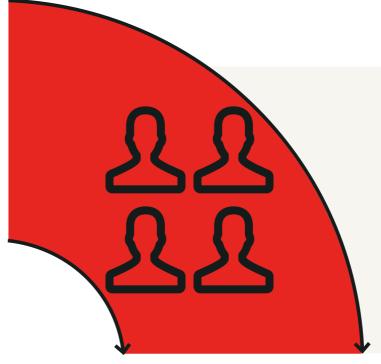
Benchmark, emulate and partner with globally recognised international research training programs.

Continuously advance our cross-institutional partner relationships, governance and administration.

Constantly innovate our international research training programs and infrastructure.

Provide the best possible academic and personal support to HDR candidates, through quality supervision and our innovative support programs.





#### **QUALITY CANDIDATES**

Attract, develop and retain international HDR candidates of the highest quality.

Maximise the MRes pathway as a vehicle for international research training and partnerships.

Leverage our IRTP leadership position in Australia, to promote our research strengths and future-shaping priorities globally. Provide opportunities for real-world engagement that help prepare world-ready HDR candidates.

Align international HDR candidate recruitment processes with World-Leading Research; World-Changing Impact and ITRP goals.

#### **QUALITY FUNDING SOURCES**

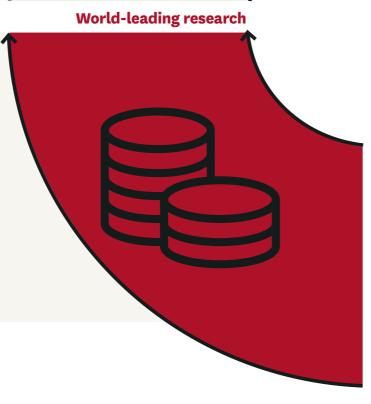
Expand the quality and number of funding sources to support international research training.

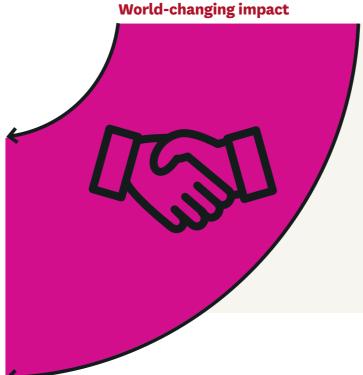
Continuously and rigorously assess current research collaborations for IRTP potential.

Target prestigious international research training partners in strategic and developing regions.

Build scale in a small number of strategic and prestigious partners.

Establish strategic multi-region partnerships to leverage funding, quality and scale.





#### QUALITY INSTITUTIONAL PARTNERS

Develop, secure and maintain international research training partnerships with world-leading research institutions.

Replicate the successful multilateral, multi-discipline funding models.

Establish industry-based funding sources and key partners.

Maximise the funding provided by international and key national funding agencies.

Leverage Macquarie's leading position with respect to Australian funding sources and general policy influence.

## **Key targets**

Maintain and strengthen Macquarie's standing as the provider of the region's leading international research training program Establish five successful Trilateral Strategic Partnerships for joint PhD degrees (building on the MO-FU-HAM model) Double the number of active national and international funding partners

Establish at least three multi-institutional joint PhD programs of critical mass (building upon the successful IDEALAB model) Establish programs with a critical mass in at least 10 institutions

Secure significant industry-based funding sources

Develop a strong and sustainable presence in the United States

Double the number of HDR candidates participating in international research training programs



# Quality programs and experiences

SUSTAINING OUR LEADERSHIP POSITION

Partnering with quality programs, while maintaining, enhancing and developing our own program, is critical to our ability to sustain our leadership position.

Macquarie is the first non-European university to be accepted as a partner in the International Doctorate for Experimental Approaches to Language and Brain (IDEALAB) consortium. Our global partners in this program include the Universities of Groningen (Netherlands), Newcastle (UK), Potsdam (Germany) and Trento (Italy).

IDEALAB has received funding of €5.6 million from the European Commission. Macquarie currently has 22 HDR candidates enrolled in this program and has achieved seven HDR completions to date.

In 2015, the DAAD (German Exchange Funding agency) awarded €1 million to Hamburg University (Germany), Fudan University (China) and Macquarie University for a strategic partnership including cotutelle and joint PhD programs. Once again, Macquarie University is the only Australian institution that has been awarded such a program. We are currently exploring the potential to replicate this three-way arrangement with other universities in Germany, South Africa and China.

In terms of our own programs, much has been done in recent years to develop and enhance Macquarie's cotutelle and joint PhD programs and experiences, largely on the back of broader improvements associated with the domestic PhD program.

These include four inter-related programs:

- Supervision enhancement
- · HDR learning skills
- · HDR professional skills
- · HDR Mentors.

Macquarie must continue to refresh and revise these programs in the context of an expanding international research training strategy, while leveraging the recent public recognition of the MRes program as the most innovative research training pathway in Australia.

Establishing individual international research training programs can be a complex process involving multiple stakeholders, at various levels in each institution. Macquarie must strive to minimise the frustrations for academics, professional staff and candidates alike, and work with partners to find ways to streamline processes at every step.

#### MAJOR PARTNERSHIPS\*

Macquarie University - Fudan University -Hamburg University Trilateral Strategic Partnership

IDEALAB Consortium includes; University of Groningen Newcastle University University of Potsdam University of Trento Macquarie University

\*Refer to Appendix for a full list of partners

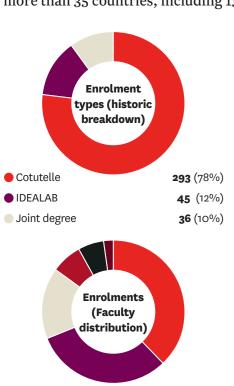




# **Quality candidates**

WORLDWIDE REACH

Macquarie has hosted more than 370° cotutelle and joint PhD candidates from more than 35 countries, including 132 current candidates.



#### **ENROLMENT TYPES**

Europe (including the UK) is our largest collaborating region, representing around 57 per cent of current and historic candidate numbers. Collaborations with China currently represent around 26 per cent of enrolments, with the balance shared between Japan, Latin America and North America.

#### **ENROLMENT DISTRIBUTION BY FACULTY**

Historically, science and engineering, human sciences and arts have accounted for around 90 per cent of enrolments. The top five countries (excluding IDEALAB candidates) in terms of historic enrolments have been China (82), Germany (76), France (35), United Kingdom (22), and The Netherlands (12).

Macquarie must leverage its Australian leadership position with respect to international research training in order to continue to attract quality HDR candidates. We must continue to maximise the MRes pathway and build upon the 14 MRes exchange partners already secured. We must continue to promote Macquarie's research performance, strengths and future-shaping research priorities in order to attract the 'best of the best'.

Macquarie must ensure that the positioning of our cotutelle and joint PhD programs in international student markets is clear in the context of broader undergraduate recruitment campaigns.

Attracting the best candidates is not enough. They also need the best support through the HDR Support and Development Program.



Arts

Science and Engineering

Business and Economics

Medicine and Health Sciences

Human Sciences



# Quality institutional partners

# FORMING STRONG PARTNERSHIPS

Macquarie has collaborated with 110 institutional partners on international research training programs since 1999.

Our goal is to partner with prestigious universities and pre-eminent research institutes of international and national standing in fields of recognised research strength.

In recent years we have identified 75 priority research-intensive universities with strong research collaboration relationships (or potential) with Macquarie University. Scholarships can be awarded at any time for qualified applicants with these institutions. Refer to Appendix A for the complete list of priority research-intensive universities.

Macquarie has also identified a group of preferred institutions that have an existing, or are in the process of establishing, a formal research collaboration relationship. Applicants from these universities are assessed competitively by the Higher Degree Research Management Committee (HDRMC).

A special case needs to be made by the principal supervisor and Associate Dean – HDR for prospective candidate applications with universities not identified as a priority or preferred institution.

More than 50 universities have also been specifically approved by Academic Senate for joint PhD programs. Refer Appendix B.

Macquarie is also ambitiously expanding exchange programs for MRes candidates, encouraging them to develop research relationships at the MRes level that may lead to joint and cotutelle PhDs down the track.

Agreements covering MRes exchange are now in place with 10 universities.

Leaders attract leaders, and the real opportunity for Macquarie is to focus its attention on prestigious partners in strategic regions (including Europe, North America, Latin America and China), and developing regions (including Japan, Korea and South East Asian countries, as well as South Africa, Israel and Iran). Building a critical mass where we have existing relationships and expanding our penetration of world-leading universities are also key goals.

Cotutelle and joint PhD programs typically succeed when built on existing strong links, largely at the level of individual researchers who have already established successful research collaborations.

Macquarie must continuously and comprehensively assess all existing international research collaborations for future international research training and partnership potential.

#### MAJOR PARTNERSHIPS\*

Chinese Academy of Sciences
Centre Nationnal de la Recherche Scientifique
Universität Giessen
Jilin University

Katholieke Universiteit Leuven Universidade de São Paolo

**University of Toronto** 

\*Refer to Appendix for a full list of partners





# **Quality funding sources**

CURRENT FOUNDATIONS AND FUTURE OPPORTUNITIES

Macquarie University has signed joint funding agreements with more than 15 top international funding agencies.

These include the China Scholarship Council, National Sciences Foundation (US), VIED (Vietnam), CNPq and CAPES Scholarships (Brazil); CONICYT (Chile), CONACYT (Mexico), National Research and Innovation Agency of Uruguay, and the Bolashak Scholarship with the Republic of Kazakhstan. Refer to Appendix C for the complete list.

These arrangements strengthen the flow of high-quality candidates into the system and supplement Macquarie's internal scholarship funding, which enables scholarships to be offered to greater numbers of high-potential HDR candidates.

In the past, Macquarie relied exclusively on individual student approaches, but connecting directly with major national programs makes Macquarie a priority partner for international universities and funding agencies. We must continue to expand Macquarie's network of major national and international funding programs

Both the IDEALAB and DAAD international research training programs have enabled access to new strategic funding sources and represent a model that we must maintain and replicate in other thematic and multidisciplinary fields and/or geographies. Similarly, the EU Horizons 2020/Erasmus Mundus Joint Doctorate program has been a valuable source of

quality funding (and programs) with strong critical mass – again, a model to be leveraged in other geographies.

The China Scholarship Council has been a key collaborator and strategic source of funding support to our second largest cotutelle and joint PhD country program, with potential for continued growth.

The Australian Research Council and National Health and Medical Research Council continue to be the prime sources of Australian funding for Macquarie's international research training programs – a focus and strength we must maintain.

#### **MAJOR PARTNERSHIPS\***

China Scholarship Council
National Sciences Foundation
European Commission

CNDa

DAAD German Academic Exchange Service
CONICYT

\*Refer to Appendix for a full list of partners



# **Appendicies**

#### Priority 1: Priority cotutelle and joint PhD partners

University of Vienna

#### Belgium

Ghent University Katholieke Universiteit Leuven

#### Brazil

Federal University of Santa Catarina Federal University of Minas Gerais UNESP

Universidade de Sao Paulo

#### Canada

University of Waterloo

#### Chile

Universidad de Chile

#### China

Beijing University of Posts and Telecommunications Central University of Finance and

Chinese Academy of Sciences Chinese Academy of Social Sciences China University of Geosciences,

China University of Geosciences, Wuhan

Dalian University of Technology East China Normal University Fudan University

Harbin Institute of Technology

Jilin University Nanjing University

Nankai University Peking University

Renmin University of China Shandong University

Shanghai Jiaotong University Sichuan University Sun Yat-sen University

Tsinghua University

University of Science and Technology Wuhan University

Xiamen University Zhejiang University Croatia

### University of Zagreb

**Czech Republic** Charles University

#### Denmark Aarhus University

Copenhagen Business School University of Copenhagen France

### Université Paris Saclay

Université Paul Sabatier University of Paris-Sud 11 Université Pierre and Marie Curie Germany

Friedrich-Alexander-University of Erlangen-Nuremberg Johann Wolfgang Goethe-University

Frankfurt

Heidelberg University Justus Liebig University Giessen Katholische Universität Eichstätt-Ingolstadt

University of Goettingen University of Hamburg University of Leipzig University of Potsdam

#### Israel

Tel Aviv University

#### Italv

University of Bologna

#### Japan

Osaka University Tohoku University

#### **Netherlands**

Radboud University Niimegen University of Amsterdam University of Groningen VU University Amsterdam

Russian Academy of Sciences

#### **South Africa**

Stellenbosch University University of Cape Town

Complutense University of Madrid Pompeu Fabra University of Barcelona University Autonoma Madrid University of Navarra

Sweden Lund University

#### Stockholm University Thailand

Kasetsart University King Mongkut University Mahidol University **United Kingdom** 

Chulalongkorn University

#### Bristol University

**Durham University** University of Exeter **United States of America** 

#### University of Illinois at Chicago

#### Priority 2: Preferred cotutelle and joint PhD partners

#### Universidade Federal de Goias

Universidade Federal do Rio Grande

#### Canada

University of York

#### Chile Universidad de Santiago de Chile

China Beijing Language and Culture

University Central South University

Chang'an University China University of Petroleum China Agricultural University

Communication University of China Jinan University Northwest Polytechnical University

Shanghai University Tianjin University of Science and Technology

Xidian University Zhongnan University of Economics and Law

#### Denmark

Southern Denmark University University of Copenhagen

### Estonian University of Life Sciences

**Finland** 

University of Lapland University of Tampere France CentraleSupélec

University of Nantes Université Jean Monnet Université Louis Pasteur Université Lumiere Lyon 2 Université Montpellier 2 Université Nice Sophia Antipolis Germany

#### Hoschule für Musik und Theatre

Hannover Ruhr University Bochum RWTH Aachen University Technische Universitat Braunschweig

Universitaet Duisburg-Essen University of Erfurt University of Konstanz University of Osnabrueck University of Regensburg University of Ulm Westfalische Wilhelms-Universitat

#### Munster Iceland

University of Iceland

Amikabir University of Technology Ferdowski University of Mashhad Sharif University Tehran University of Medical Sciences University of Tehran

**Dublin City University** 

Universita degli Studi di Bergamo Universita degli Studi di Padova University of Florence University of Milan

Nara Institute of Science and Technology Soka University

#### Mexico

Instituto Politécnico Nacional (IPN) National Autonomous University of Mexico (UNAM) Universidad Veracruzana

#### **Netherlands**

University of Twente

#### **New Zealand**

University of Canterbury Poland

Adam Mickiewicz University Poznan University of Economics Wroclaw University of Technology

#### University of Lisbon

Russia Lobachevsky University ITMO University Peter the Great St Petersburg Polytechnic University Tomsk State University

#### Serbia University of Novi Sad

**South Africa** 

Ural Federal University

#### North-West University

University of Navarra

#### Sweden

University of Linkoping Switzerland

### University of Fribourg

Thailand Thammasat University

#### Ukraine

Kharkiy National Medical University National University of Kyiv Mohyla

### **United Kingdom**

Aston University Coventry University University of Reading

#### **United States of America** University of Massachusetts Amherst

Universidad de la Republica

University of Missouri-St Louis

### **APPENDIX B**

### The following universities have been approved by the Macquarie

University Academic Senate for Joint PhD Degree programs.

#### Belgium Katholieke Universiteit Leuven

Université Libre de Bruxelles

**Joint PhD Partner Universities** 

#### Canada

University of Toronto

#### China

China University of Mining and Technology

## Fudan University(\*)

Denmark Aarhus University

University of Helsinki

#### Finland

France École Normale Supérieure de Lyon Université de Lyon

(including St Étienne) Université de Toulouse Université Montpellier

#### Université Pierre-et-Marie-Curie Université de Strasbourg

Germany Goethe University Frankfurt Heidelberg University Hamburg University(\*) Leipzig University Goettingen University LMU Munich University Ruhr-University Bochum University of Potsdam University of Potsdam (\*^)

#### Italy

University of Trento(\*^)

#### Netherlands

University of Amsterdam Free University of Amsterdam University of Utrecht Erasmus University Rotterdam University of Groningen(\*^) Radboud University Nijmegen University of Twente

#### University of Bergen

South Africa Stellenbosch University

## Spain

Universidad Autónoma de Madrid

#### Sweden

Lund University

#### **United Kingdom** Cardiff University

Lancaster University Heriot-Watt University(\*) Imperial College London University of Bristol University Dundee(\*) University of Durham University of Edinburgh(\*) University of Exeter University of Glasgow(\*) University of Manchester University of Newcastle(\*^) University of Nottingham University of Sheffield University of St Andrews(\*) University of Strathclyde(\*) University of York

#### **APPENDIX C**

#### **Funding agency agreements**

Australia Award Australian Research Council National Health and Medical Research Council Fulbright

#### CNPq and CAPES Scholarship

#### Chile

CONICYT Chilean Bicentennial Fund

Scholarship

China Scholarship Council

#### Colombia Colsciences Columbia

EU Horizon 2020 Erasmus

#### Mundus Program Germany

German Academic Exchange Service (DAAD) German Research Foundation (DFG)

the Republic of Kazakhstan

#### Kazakhstan The Bolashak Scholarship with

Mexico

#### CONACYT Peru

Peru Government Scholarship

#### Russia Russian Government Scholarship

National Institute of Health National Sciences Foundation

#### Vietnam

VIED Uruguay

National Research and Innovation Agency of Uruguay ANII Uruguay

(\*^) Member of the consortium agreement for the Joint International Doctorate in Experimental Approaches to Language and Brain (IDEALAB)

<sup>(\*)</sup> Joint PhD MOUs only implemented in selected cases

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