Cover image: Data collection from Year 8 students at Clarkson Community High School.
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Dean’s Message

Kaya wanjoo wanjoo

Welcome to the 2018 Research Report

Research is not just about what we investigate and discover; it is also about how we communicate these insights and understand this new knowledge. The Graduate School of Education is an intellectually vibrant community of researchers and research candidates whose research focusses on many of the key educational issues and challenges of our local and global communities. We celebrate research, innovation and excellence and showcase the impacts of our work with teachers, practitioners, industry professionals, policy makers and students. We are acknowledged national and international leaders in the field, and the publications and activities highlighted in this Research Report highlight the breadth and depth of our expertise.

I would like to take this opportunity to thank the Research Committee – under the leadership of Associate Professor Christine Howitt – for their foresight and work collating this volume. This is the first of our annual reports, and I hope you all take the opportunity to follow the success of our research and researchers as we continue to advance knowledge and tackle the ‘wicked problems’ that are present in our ever changing world.

Professor Tanya Fitzgerald
Dean and Head, Graduate School of Education
Overview of 2018

52 peer-reviewed papers

$1.66M grants and consultancies won

18 HDR completions

5 books

21 book chapters

6 research reports

10 keynotes / invited presentations

40 national & international conference presentations

9 journal editors
Publications

Books


Edited books


Book chapters


**Journal articles**


Peer reviewed conference proceedings


Research reports


Conference Presentations

Keynote addresses/Invited presentations


Pegrum, M. (2018). Smart learning, smart universities, smart cities: Where will mixed reality lead us? Technology Assisted Teaching and Learning Symposium, Hong Kong Baptist University, Hong Kong.


National/international conference presentations


Pegrum, M. (November, 2018). Connecting cultures via intercultural, ethical and critical literacies. Paper presented as part of the symposium CALL for help: Critical CALL for diversity, inclusion and sustainabilty at WorldCALL, Concepción, Chile.


Savage, G. C. & Lingard, B. (December, 2018). Imagining a ‘system-less’ system: A critical analysis of federal strategies to align schooling through funding and data. Australian Association for Research in Education (AARE), Sydney, Australia.


Grants and Consultancies Won in 2018

**Australian Competitive Grants**


**Other Public Sector Research Income**


**Industry and Other Research Income**

**Andrich, D. & Marais, I.** (2018). Technical support to for the ongoing development of the Indonesian National Assessment Program (AKSI). Indonesia’s Centre for Educational Assessment (Puspendik.) ($23,700).


Organisations that grants were submitted to

Australia-Germany Joint Research Cooperation Scheme

Australian National Commission for UNESCO

Australian Research Council

Beyond Blue

Channel 7 Telethon Trust

National Health and Medical Research Council

NSW Department of Education

Perpetual Impact Philanthropy

Sheikh Saud bin Saqr Al Qasimi Foundation for Policy Research

Western Australia Mental Health Commission
Editorial Boards

Editorial roles

Australasian Journal of Early Childhood, Deputy Editor, Christine Howitt
British Journal of Educational Psychology, Associate Editor, Steve Houghton
Critical Studies in Education, Editor, Glenn Savage
Education Research and Perspectives, Editor in Chief, Elaine Chapman
International Journal of Virtual and Personal Learning Environments, Associate Editor, Mark Pegrum
Leading & Managing, Guest Editor, Simon Clarke
Professional Development in Education, Associate Editor, Simon Clarke
Research in Science Education, Assistant Editor, Christine Howitt
TalentEd, Editor, Peter Merrotsy

Editorial boards that staff are on

Applied Psychological Measurement
Australian Journal of Teacher Education
British Journal of Educational Studies
Education 3-13. International Journal of Primary and Early Years Education.
History of Education
History of Education Review
International Journal of Science and Mathematics Education
International Journal of Science Education
International Studies in Catholic Education
Interactive Technology and Smart Education
Irish Educational Studies
Journal of Applied Measurement
Journal of Curriculum and Pedagogy

Journal of Education Policy

Journal of Educational Administration

Journal of Educational Administration and History

Psychological Tests and Assessment Modelling

Research in Science Education

Research in Science and Technological Education

System

Teaching Science

Technology in Language Teaching and Learning

The Internet and Higher Education
HDR Training

HDR completions

Doctor of Philosophy

Sonia Ferns. Developing a professional identify: Work Integrated Learning (WIL) as a mechanism for enhancing professional capacity Supervisors: Vaille Dawson and Christine Howitt

Sashya Gunasekera. From stability to mobility: The changing goals, reputational orientations, antisocial behaviour and school connectedness of adolescents from African refugee backgrounds following transition to mainstream schooling. Supervisors: Stephen Houghton and Ken Glasgow

Anne Palmer. Plagiarism in the digital era: A study of Australian transnational higher education in Singapore. Supervisors: Grace Oakley and Mark Pegrum

Jelena Rakovic. A study of school leaders and leadership in the Republic of Serbia. Supervisors: Tom O’Donoghue and Simon Clarke

Doctor of Education

Benjamin Chan. Chemistry reasoning among college students. Supervisors: Keith Punch and Stephen Houghton.


George Sekulla. Independent Public Schools in Western Australia: Stakeholders’ perspectives on implementation. Supervisors: Helen Wildy and Simon Clarke

**Master of Education (Thesis & Coursework)**

**Amanda Brien.** The Australian Professional Standards for Teachers: Perspectives on policy enactment of the lead standards. Supervisors: Lesley Vidovich and Rachel Wicking.

**Katherine Carson.** Youth climate change activists in Western Australia: A locally-based theory of their journey to activism. Supervisors: Tom O’Donoghue and Lesley Vidovich.

**Sonia Heuppauff.** Thinking science professional development program: Teacher perspectives. Supervisors: Lesley Vidovich and Loretta Dolan.

**Claire Howard.** Independent Public Schools: An evaluation using large scale test data. Supervisors: Stephen Humphry and Simon Clarke.

**Marisa Kelly.** Leading in remote, indigenous community schools: Principals’ perspectives. Supervisors: Simon Clarke and Helen Wildy.

**Lynette McGivern.** Western Australian independent school leaders and school law: Do they feel equipped to deal with the legal issues they are presented with in the course of their work? Supervisors: Simon Clarke and Kate Offer.

**Research training workshops**


**Fogarty Foundation Postgraduate Research Forum**

The Fogarty Foundation Postgraduate Research Forum provides an opportunity for Western Australian postgraduate education students to present their research and explore their ideas in a supportive environment. It provides an excellent opportunity for the sharing of minds in education related research. In 2018 there were 27 postgraduate education presentations representing PhD, EdD and Masters’ students from across all five WA universities, along with one Doctoral Research fellow in Physics Education from the University of Oslo who was a Visiting Research Fellow from The University of Western Australia.
Staff with Fellowships

David Andrich - Fellow of the Academy of the Social Sciences in Australia

Simon Clarke - Fellow of the Australian College of Educators

Simon Clarke - Fellow of the Australian Council for Educational Leaders

Vaille Dawson - Fellow of the Royal Society of Biology

Tom O'Donoghue - Fellow of the Academy of the Social Sciences in Australia

Tom O'Donoghue - Fellow of the Royal Historical Society

Steve Zubrick - Fellow of the Academy of the Social Sciences in Australia

Steve Zubrick - Fellow of the Australian Academy of Medicine and Health Sciences
Impact & Engagement

David Andrich
- Member of the organising committee for the 2018 Seventh International Conference on Probabilistic Models for Measurement: Applications to Education, Psychology, Health, Marketing and Social Science at UWA (see vignette, page 24)
- Member of the Expert Measurement Advisory Group, Australian Curriculum, Assessment and Reporting Authority
- Member of the Board of the School Curriculum and Standards Authority of Western Australia
- Visiting Professor, Oxford University, Fellow of St Anne’s College, UK
- Software development of RUMMs (Rasch Unidimensional Measurement Models Simulation Studies software) and User Guide

Simon Clarke
- Member of the Non-Government Schools Planning Advisory Panel (Government of Western Australia, Department of Education Services) advising Minister for Education on applications for proposed new non-government schools

Vaille Dawson
- Australian Research Council (ARC) Social Science Panel Member Engagement and Impact (EI) Assessment 2018
- Assessor for Australian Research Council Discovery Grant
- Senior Research Associate, University College, London
- Part of team who undertook a series of workshops for teachers and parents in metropolitan and regional areas on child and adolescent mental health and education (see vignette, page 25)

Christine Howitt
- Member of the organising committee for the national 2018 Australasian Journal of Early Childhood Research Symposium

Steve Houghton
- Assessor for Australian Research Council Discovery, Linkage, Early Career and Fellowship Grants Schemes
- Assessor for National Health and Medical Research Council
- Part of team who undertook a series of workshops for teachers and parents in metropolitan and regional areas on child and adolescent mental health and education (see vignette, page 25)
Steve Humphry
- Standards Committee, School Curriculum and Standards Authority (Elected Member)
- Tertiary Institutions Service Centre, Scaling Committee

David Lawrence
- Radio interview ABC Radio Great Southern, June 2018
- Member of the National Mental Health Services Planning Framework Epidemiology Expert Group
- Co-chair, WA Suicide Prevention Data Taskforce
- Small area estimates of child and adolescent mental health conditions provided to Department of Education to support funding model for mental health in schools
- Part of team who undertook a series of workshops for teachers and parents in metropolitan and regional areas on child and adolescent mental health and education (see vignette, page 25)

Ida Marais
- Member of the organising committee for the 2018 Seventh International Conference on Probabilistic Models for Measurement: Applications to Education, Psychology, Health, Marketing and Social Science at UWA (see vignette, page 24)
- Software development of RUMMss (Rasch Unidimensional Measurement Models Simulation Studies software) and User Guide

Ger Neylon
- Radio interview ABC Radio Perth, October 2018

Grace Oakley
- State director and national council member of the Australian Literacy Educators’ Association (ALEA)
- Co-convenor of The Art of English. ALEA National Conference, Perth
- Member of COLAB (Collaborate for Kids) Research Consultation Group

Mark Pegrum
- Co-Convenor, AILA research network Mobile Gaming in Language Learning & Teaching
- Advisory Council, Laureate-Cambridge Online Language Learning Research Network (OLLReN)

Glenn Savage
- ‘Busting the myth of ‘sector blind’ school funding’. ABC News Online, 4 October.
- ‘NAPLAN 2018 summary results: A few weeks late, but otherwise little change from previous years’. The Conversation, 28 August.
- ‘Budget 2018: What’s in store for education?’ The Conversation, 8 May.
- ‘Gonski review reveals another grand plan to overhaul education: But do we really need it?’ The Conversation, 30 April. [Republished by ABC News Online].
- ‘Why is the funding of Catholic schools so controversial?’ ABC News Online, 28 March.
UWA International Rasch Measurement conference

In 2018 the Seventh International Conference on Probabilistic Models for Measurement: Applications of Rasch Measurement to Education, Psychology, Health, Marketing and Social Science was held at UWA. David Andrich, Ida Marais and Sonia Sappl were the organising committee of this three-day conference, with Natalie Carmody the administrator. Some 70 delegates from Austria, Canada, China, Denmark, France, Italy, Japan, Norway, Russia, Singapore, South Africa, Sweden, Switzerland, Turkey, United Kingdom, the United States of America, and from across Australia attended the conference. The keynote speakers were Derek Briggs, University of Colorado (Boulder), Skye Barbic, University of British Columbia (Vancouver) and Thomas Salzberger, University of Vienna.

A poignant moment of the conference was the reception of the Tim Dunne award for a South African student. Tim Dunne, then Professor of Statistics at the University of Cape Town, spent 2010 on study leave in the GSE and worked on Rasch measurement theory in which UWA is one of the world’s leading locations. He introduced many students in South Africa to this theory and found support for their studies. Tragically, he was killed in a car accident. To commemorate his contribution, an award which covered travel, accommodation, conference registration and attendance at the pre-conference course, was provided on a competitive basis to a student from South Africa. The photograph shows the South African delegation at the conference dinner with Ida Marais and David Andrich at the far right.

Before the conference, 33 delegates paid to attend an intensive five-day course, and following the conference, 28 attended a three-day advanced workshop. Susan Bartlett, Professor of Medicine, McGill University, Canada, summarised her feedback with:

“Perth and UWA proved to be an ideal environment and exceptional learning opportunity for nuanced study across the three interleaving events” describing these as a “fantastic series of events”.
Translation of research on child and adolescent mental health and education

Through a UWA Research Translation Grant, Steve Houghton, Vaille Dawson and David Lawrence conducted workshops for teachers and parents on child and adolescent mental health and education. These workshops were focussed on disadvantaged metropolitan areas including Armadale, Rockingham and Mandurah, as well as visiting Albany and Geraldton. Workshops were also conducted through Aspire with visiting teachers from the Midwest, Kimberley and Pilbara.

The workshops were based on the findings from the Young Minds Matter research on the prevalence and impact of mental health disorders in schools, and approaches to assisting students with social and emotional issues based on Healthway-funded work related to cognitive bias modification. Approximately 600 teachers and 200 parents participated across 15 workshops.

International Visitors

Associate Professor Daleen Casteleijn, University of Witwatersrand, South Africa

Dr Tine Nielsen, University of Copenhagen, Denmark

Professor Curt Hagquist, The University of Karlstadt, Sweden

Professor Simon Hunter, Glasgow Caledonian University, Scotland
International Collaborations
Staff and Research Expertise

**Professor David Andrich**
Educational measurement and assessment, Item response theory, Psychometrics, Rasch measurement

**Dr Elaine Chapman**
Social psychology of education, Research methods

**Professor Simon Clarke**
Educational leadership, School improvement, Change in education, Teachers’ work, Industrial relations in education

**Professor Vaille Dawson**
Science education, STEM education, Thinking skills, Disadvantaged schools, Scientific literacy

**Dr Loretta Dolan**
History of Education, History of Childhood, History Education

**Professor Steve Houghton**
Child and adolescent mental wellbeing and developmental psychopathology examining trajectories of childhood onset conduct disorder, adolescent antisocial behaviour, loneliness, adolescents electronic screen use, and depressive symptoms

**Associate Professor Christine Howitt**
Young children’s science learning, Science identity, Learning in informal contexts, Participatory research, Rights of the child, STEM education

**Dr Steve Humphry**
Educational Assessment, Educational Measurement, Quantitative Methods

**Professor Simon Hunter (Honorary Research Fellow)**
Children and young people’s experiences of bullying, Loneliness, Screen media use, Mental illness stigma

**Associate Professor David Lawrence**
Child and adolescent mental health and wellbeing, Youth suicide prevention, Mental health and wellbeing of emergency services personnel

**Dr Ida Marais**
Psychological and educational measurement, Psychometrics, Rasch measurement, Quantitative research methods in Psychology and Education, Data simulation

**Dr Fiona Mayne**
Early childhood education, Participatory research, Rights of the child

**Professor Peter Merrotsy**
Creativity, Mathematics education, Education of gifted and talented children, Academic acceleration, Creative problem solving, Hermeneutics

**Dr Gerardine Neylon**
Quality in early childhood education and care

**Associate Professor Grace Oakley**
Literacy and technology, Reading comprehension, Mobile technologies for learning schools and Higher Education, Literacy across the curriculum, Innovations in Higher Education
Professor Tom O’Donoghue
Comparative education/international education, History of education, Education in conflict, Teacher education, Curriculum theory, Parental involvement in education

Associate Professor Mark Pegrum
Digital learning, e-learning, Mobile learning, m-learning, Digital literacies, New technologies

Dr Glenn Savage
Education reform, Federalism, Intergovernmental relations, Global policy mobilities

Dr Gemma Scarparolo
Differentiation, Inclusive practice, Gifted education, Student voice, Professional development

Dr Jennifer Shand
Literature education, Writing pedagogy, Young adult fiction and reading

Professor Lesley Vidovich
Education policy and practice, Globalisation and internationalisation of education, Comparative education, Educational leadership, management and administration

Professor Helen Wildy
School leadership, School improvement, Educational measurement, School reform, Educational standard, Educational leadership, Professional standards

Professor Steve Zubrick
Child development, Sociology of education, Mental health