Annual Research Report

2018

School of Education
Curtin University, WA

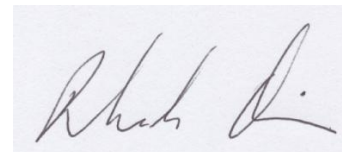# Annual Research Report 2018
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Introduction

The following is a report of the research outcomes produced in 2018 by the staff of the School of Education. It shows the extent and considerable diversity of research undertaken. In addition to the various publications (books, book chapters and journal articles), staff also presented keynote talks and a considerable number of conference papers. In total, $685,582 was brought into the school in the way of external research funding. Taken together this highlights our success and also contribution to the national and an international educational research community.

The year 2018 also brought some changes in the way we worked together. All academic staff and research students were aligned with one or more of the School's three Discipline Groups: Applied Linguistics, TESOL and Languages; STEM Education; and Education and Pedagogy. The Discipline Groups provided an avenue for supporting a wide variety of research through seminars and other activities. Ten research projects were successfully funded through our internal school-funded RISP program and the Professional Learning Hub worked to promote demand-driven research with our education industry partners.

Please enjoy reading this document. We hope it may prompt further cooperation between our staff and our many industry partners and stimulate new collaborations into the future.

Professor Rhonda Oliver

Head School of Education

Curtin University

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Publications

Journal articles

Bennett, D., & Chong, E. K. M. (2018). A Singaporean study of pre-service music teachers' career intentions and self-beliefs. *International Journal of Music Education*, *36*(1), 108-123.

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Cooke, A. (2018). Mathematics in Swedish and Australian early childhood curricula. In E. Norén, H. Palmér, & A. Cooke. (2017), *Nordic research in mathematics education: Papers of NORMA 17. The Eighth Nordic Conference on Mathematics Education* (pp. 1-10). Stockholm: Svensk förening för MatematikDidaktisk Forskning-SMDF. Retrieved from http://matematikdidaktik.org/wp-content/uploads/2018/09/NORMA-17-2018-papers-SMDF-skriftserie.pdf

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Hurst, C. (2018). Multiplicative thinking: Developing a model for research and professional learning. In J. Hunter, P. Perger, & L. Darragh (Eds.), *Making waves, opening spaces (Proceedings of the 41st annual conference of the Mathematics Education Research Group of Australasia)* (pp. 68-71). Auckland: MERGA.

Lindsay, S., Benati, K., **Bennett, D.**, & Jevons, C. (2018, October). Exploring student futures as business graduates. In *Proceedings of the 2018 Australian Collaborative Education Network national conference* (n. p). Melbourne: ACEN. Retrieved from https://drive.google.com/file/d/1EqjIra1nWEdYvlSyI1XLtPPzA5vOouR5/view

Norén, E., Palmér, H., & **Cooke, A.** (Eds.). (2018). *Nordic research in mathematics education: Papers of NORMA 17. The Eighth Nordic Conference on Mathematics Education.* Stockholm: Svensk förening för MatematikDidaktisk Forskning-SMDF. Retrieved from http://matematikdidaktik.org/wp-content/uploads/2018/09/NORMA-17-2018-papers-SMDF-skriftserie.pdf

Presentations

Conference presentations

Alharthi, A., **Treagust, D. F.**, **Won, M.,** & **Koul**, **R**. (2018, June). *An evaluation of ICT integration in science learning in primary schools in Saudi Arabia.* Paper presented at the Australasian Science Education Research Association Conference, Surfers Paradise, Queensland, Australia.

Beltman, S. (Discussant). (2018, June). In C. Aprea (Chair), *Modelling and measuring teacher resilience as multi-faceted construct.* Symposium conducted at the European Association for Research on Learning and Instruction (EARLI), SIG 11 (Teaching and Teacher Education) conference, Kristiansand, Norway.

Beltman, S. (Chair). (2018, September). *Inclusion and exclusion at the heart of global perspectives on teacher resilience*. Invited symposium for the World Education Research Association (WERA) conducted at the European Conference on Educational Research (ECER), Bolzano, Italy.

Beltman, S. (Organizer and Chair). (2018, September). *Relationships as risks and resources for resilience*. Symposium conducted at the EARLI Learning & Professional Development SIG Conference, Geneva, Switzerland.

Beltman, S., Mansfield, C. F., **Dobson, M.,** & **Jay, J.** (2018, September). Relationships and resilience in early childhood settings**.** In **S. Beltman** (Chair), *Relationships as risks and resources for resilience*. Symposium conducted at the EARLI Learning & Professional Development SIG Conference, Geneva, Switzerland.

Bennett, D. (2018, January). *Developing employability as metacognition from Semester 1: A workshop on how!* Workshop conducted at the Western Australian Teaching and Learning Forum, Fremantle, Australia.

Bennett, D. (2018, March). *Do I have to be a soloist? Developing career competences in the music classroom.* Workshop conducted at the 26th Conference of the European Association for Music in Schools, Jalgava, Latvia.

Bennett, D. (2018, April). *Developing employABILITY thinking as metacognition: Opportunities for learning, teaching and research.* National roadshow hosted by the Higher Education Research and Development Society of Australasia (HERDSA): Perth (Curtin, ECU); Adelaide (UniSA); Launceston (UTAS); Melbourne (Monash); Sydney (Macquarie, USyd; UNSW); Brisbane (QUT); Sunshine Coast (USC); and Townsville (JCU).

Bennett, D. (2018, July). *Higher music education and the need to educate the whole musician: Musicians' work in early-, mid- and late-career.* Paper presented at The Commission for the Education of the Professional Musician (CEPROM) International Seminar, Almaty, Kazakhstan.

Bennett, D. (2018, October). *What ePortfolios and graduate employability go hand in hand: Redefining employABILITY in higher education.* Keynote address at the 2018 ePortfolios National Forum at Griffith University, Brisbane, Australia.

Bennett, D. (2018, November). *Engaging academic staff and students in employability development.* Workshop presented at Talking Teaching, National Conference of the AKO Aotearoa Academy. University of Canterbury, Christchurch.

Bennett, D., Carruthers, G., Brown, J., Burnard, P., Rowley, J., Mitchell, A., & Weller, J. (2018, July). *Leadership in and through higher education: Pathways from current practice to future action.* Panel presentation at the 33rd World Conference of International Society for Music Education. Baku, Azerbaijan.

Bennett, D., & Rowley, J. (2018, October). *Building graduate futures through embedded EmployABILITY thinking.* Showcase presented at the 2018 Australian Collaborative Education Network National Conference. Brisbane, Australia.

Brown, P. (2018, July). *Conspiracy in senior secondary mathematics.* Paper presented at the Mathematics Education Research Group of Australasia (MEARGA) annual conference in Auckland, New Zealand.

Brown, P. (2018, November). *Student and teacher misconceptions about fractions - with some possible remedies.* Paper presented at the Mathematical Association of Western Australia Primary and Secondary Conference, Perth, Australia.

Cavanagh, R., & Fisher, W. P. Jr. (2018, September). *The science in human science research: the case for Rasch measurement in learning environment research.* Paper presented to the XXII World Congress of the International Measurement Confederation, Belfast, Ireland.

Cavanagh, R., Fisher, W. P. Jr., & Stenner, A. J. (2018, July). *Reciprocating metaphors for linguistic complexity and Amodern measurement.* Paper presented at the 2018 Pacific Rim Objective Measurement Symposium, Shanghai, China.

Chen, J. C. (2018, August). *Integrating digital technology in an intensive, fully online college course for Japanese beginning learners: A standards–based, performance–driven approach.* Paper presented at the 26th EuroCALL Conference—Future-proof CALL: Language learning as exploration and encounters, University of Finland, Jyväskylä.

Cooke, A. (2018, June). *Using ICT to develop pre-service early childhood teachers' capacity to notice mathematics.* Paper presented at the LUMAT Symposium in Tampere, Finland.

Cooke, A. (2018, July). *An argument to engage really young children in mathematics.* Paper presented at the Mathematics Education Research Group of Australasia (MERGA) 2018 annual conference (MERGA41), Auckland, NZ.

Cooke, A. (2018, December). *Engaging Pre-service teachers with mathematics.* Paper presented at the International Junior Faculty Research Conference, Humboldt-Universität zu Berlin, Berlin, Germany.

Davies, S., Owen, S., & Thomas, S. (2018, July). *Developing digital literacies and digital technologies in the early childhood Montessori classroom.* Panel presentation at the Digitising Early Childhood International Conference, Perth, Australia.

Dobinson, T. (2018, September). Gendered identity in transcultural spaces: Promoting dialogue through Arabic films. In S. Dovchin (Chair), *Promoting human rights education.* Panel presentation at the Humanities LGBTIQ+ ALLY conference, Curtin University, Perth, Australia.

Dobson M., & Beltman, S. (2018, September). *Relationships and resilience in early childhood settings.* Paper presented at the EARLI Learning and Professional Development SIG Conference, Geneva, Switzerland.

Dobson, M., Beltman, S., Jay, J., & Mansfield, C. (2018, August). *"Make sure you look after yourself": Resilience and wellbeing of educators in Early Learning and Care centres.* Paper presented at the Western Australian Institute for Educational Research (WAIER) Forum, University of Notre Dame, Australia.

Dobson, M., Beltman, S., Jay, J., & Mansfield, C. (2018, September). *"I'm going to find a way": Resilience and wellbeing of educators in Early Learning and Care centres.* Paper presented at the Early Childhood Australia National Conference, Sydney, Australia.

Dobson, M., & Jay, J. (2018, July). *Images of children on social media: Influencers and influencing our image of children and families.* Paper presented at the Digitising Early Childhood International Conference, Edith Cowan University, Perth, Australia.

Dobson, M., & Jay, J. (2018, August). *#childhood: Exploring the representation of children and childhood on Instagram.* Paper presented at the Western Australian Institute for Educational Research (WAIER) Forum, University of Notre Dame, Australia.

Dovchin, S. (2018, June). Digital metroliteracies: Space, diversity and identity. In S. Dovchin (Chair), *Multilingualism from below*. Panel presentation conducted at the Sociolinguistic Symposium 22, University of Auckland, Auckland, New Zealand.

Dovchin, S. (2018, June). Linguascapes, social media and the Fukushima nuclear disaster: Critical awareness in the Japanese EFL university students. In S. Dovchin (Chair), *Multilingualism from below*. Panel presentation conducted at the Sociolinguistic Symposium 22, University of Auckland, Auckland, New Zealand.

Dovchin, S. (Chair). (2018, June). *Multilingualism from below*. Panel presentation at the Sociolinguistic Symposium 22, University of Auckland, Auckland, New Zealand.

Dovchin, S. (2018, September). *Empowering vulnerable young people through combatting linguistic racism*. Paper presented at the Three-minute presentation event conducted at the Faculty of Humanities Research Celebration, Curtin University, Perth, Australia.

Dovchin, S. (2018, September). Performing gendered identities on Facebook through translingual practices and promoting human rights justice through linguistic diversity. In S. Dovchin (Chair), *Promoting human rights education*. Panel presentation at the Humanities LGBTIQ+ ALLY conference, Curtin University, Perth, Australia.

Dovchin, S. (Chair). (2018, September). *Promoting human rights education*. Panel presentation at the Humanities LGBTIQ+ ALLY conference, Curtin University, Perth, Australia.

Dovchin, S. (2018, October). *Empowering vulnerable young people in Australia through combatting linguistic racism*. Paper presented at the Discipline Meeting of Applied Linguistics, School of Education, Curtin University, Perth, Australia.

Dovchin, S. (2018, October). *Linguistic racism and young people in Australia*. Paper presented at the meeting of the School of Education, Curtin University, Perth, Australia.

Dovchin, S., & Sultana, S. (2018, June). Sports, men's talk and transglossia. In S. Dovchin (Chair), *Multilingualism from below*. Panel presentation at the Sociolinguistic Symposium 22, University of Auckland, Auckland, New Zealand.

Ellis, R. (2018, February). *The significance of the implicit/ explicit distinction for language pedagogy*. Plenary speech at the First International Conference of English Language Teaching and Research, Islamic University of Malang, Indonesia.

Ellis, R. (2018, March). *Doing written corrective feedback*. Plenary speech at the The First Asian-English International Language Teaching Conference, Melaka, Malaysia.

Ellis, R. (2018, March). *Moving task-based language teaching forward*. Paper presented at the 5th International Conference on New Trends in English Language Teaching and Testing**.** Hilton Hotel Kozyatagi, Istanbul.

Ellis, R. (2018, March). *The acquisition of pragmatic competence*. Plenary speech at the Bahir Dar University, Ethiopia.

Ellis, R. (2018, May). *Form-focused instruction and the measurement of implicit and explicit knowledge.* Plenary speech at the International Forum on Second Language Acquisition Research, Dalian University of Foreign Languages, Dalian, China.

Ellis, R. (2018, May). *Social identity and language development in study abroad.* Plenary speech at the 30th International Conference on Foreign and Second Language Acquisition, Szczyrk, Poland.

Ellis, R. (2018, June). *Form-focused instruction and the acquisition of French as a second language.* Keynote talk at the Association for French Language Studies 2018 Annual Conference, Toulouse.

Ellis, R. (2018, June). *Teacher preparation for task-based language teaching.* Keynote talk at the Annual Conference of Materials Development Association (MATSDA), Shanghai International Studies University, Shanghai.

Ellis, R. (2018, July). *Using tasks in language teaching.* Keynote talk at the Bi-annual Conference of Modern Language Teachers Association of Western Australia, Curtin University, Perth, Australia.

Ellis, R. (2018, September). *Towards a modular curriculum: Integrating task-based and task-supported language teaching.* Paper presented at the British Association of Linguists Annual Conference, York, UK.

Ellis, R. (2018, October). *Corrective feedback in SLA: Taking a holistic perspective.* Plenary talk at the Second Language Research Forum (SLRF), Montreal, Canada.

Ellis, R. (2018, November). *Addressing problems in task-based teaching.* Workshop conducted at the 2nd Women in TESOL International Conference, SITE Skills Training Campus, Clark, Philippines.

Ellis, R. (2018, November). *Using tasks in language teaching.* Keynote talk at the Colloquio Producao de materiais didacticos para o ensino de PLE no context da China e Asia-Pacifico, Macao Polytechnic, Macao, China.

Galstaun, V., Simpson, A., & **Walker, R**. (2018, December). Developing critically reflective practitioners through the use of video. In *Teaching performance assessments: From foundational work to engaging with emerging complexities.* Symposium conducted at the AARE 2018, Melbourne, Australia.

Gardner, P. (2018, September). The naked man arrives: Social constructions of the migrant 'Other'. In S. Dovchin (Chair), *Promoting human rights education.* Panel presentation at the Humanities LGBTIQ+ ALLY conference, Curtin University, Perth, Australia.

Ginsborg, J., & **Bennett**, D. (2018, April). *Developing familiarity: Rehearsal talk in a newly-formed duo.* Paper presented at the 2018 Together in Music Conference: Expression, Performance and Communication in Ensembles, Society for Education, Music and Psychology Research, National Centre for Early Music, York, the UK.

Gobby, B. (2018, August). *Politics, education and researcher 'response-ability'.* Keynote lecture at the Western Australian Institute for Educational Research Annual Research Forum, Fremantle, Australia.

Gobby, B. (2018, August). *Politics, school education and teacher 'response-ability'.* Public lecture for the Humanities and Social Sciences (HASS) Week, Perth, Australia.

Goh, S. F., **Fraser, B. J.,** & **Koul, R. B.** (2018, April). *Actual and preferred learning environment in Singapore primary science classrooms: Assessment, determinants and consequences.* Paper presented at the annual meeting of American Educational Research Association, New York City, USA.

Gong, Q. (2018, July). *Multilingualism on university campus: Perspectives on linguistic delivery*. Paper presented at the Modern Language Teachers' Association of Western Australia (MLTAWA) Biennial State Conference, Perth, Australia.

Hasegawa, H. (2018, July). *Task-supported language teaching and Japanese Kanji teaching.* Paper presented at the Modern Language Teachers' Association of Western Australia (MLTAWA) Biennial State Conference, Perth, Australia.

Hasegawa, H. (2018, August). *Amalgamation of institutional economy and academic integrity: Investigation of how Japanese teachers manage conflicting demands from universities.* Paper presented at the Western Australian Institute for Educational Research (WAIER) Forum, University of Notre Dame, Perth, Australia.

Hasegawa, H. (2018, December). *Strategic approaches and embedded theories of teachers of Japanese as a foreign language in higher education institutions: Tactics for coping with the pressures caused by high demands from universities.* Paper presented at the 12th International Conference on Language, Innovation, Culture and Education (ICLICE)**,** Singapore.

Hasegawa, H. (2018, December). *Technological assistance in foreign language education: Practical implications for effective teaching and learning.* Keynote speech at the 12th International Conference on Language, Innovation, Culture and Education (ICLICE)**,** Singapore.

Hurst, C. (2018, May). *The big ideas of mathematics.* Keynote talk and workshop conducted at the Maths Education Conference, National Institute of Education, Singapore.

Hurst, C. (2018, July). *Multiplicative thinking: Developing a model for research and professional learning.* Paper presented at the Mathematics Education Research Group of Australasia (MEARGA) annual conference in Auckland, New Zealand.

Hurst, C. (2018, July). *Multiplicative thinking: Enhancing the capacity of teachers to teach and students to learn.* Paper presented at the Mathematics Education Research Group of Australasia (MEARGA) annual conference in Auckland, New Zealand.

Hurst, C. (2018, November). *Igniting curiosity through challenging investigations.* Paper resented at the Mathematical Association of Western Australia Primary and Secondary Conference, Perth, Australia.

Hurst, C., Linsell, C., Holmes, M., Offen, B., & Ingram, N. (2018, July). *Multiplicative thinking: Enhancing the capacity of teachers to teach and students to learn.* Symposium conducted at the 41st annual conference of the Mathematics Education Research Group of Australasia, Auckland, New Zealand.

Lal, S., Lucey, A. D., Lindsay, E., Sarukkalige, P.R., Mocerino, M., **Treagust, D. F.,** & Zadnik, M.G. (2018, February). *An alternative approach to student assessment for engineering - laboratory learning.* Paper presented at the Teaching and Learning Forum, Curtin University, Perth, Australia.

Lambert, C. (2018, July). *The educational rational for task-based language teaching.* Plenary talk at the Modern Language Teachers' Association of Western Australia (MLTAWA) Biennial State Conference, Perth, Australia.

Lambert, C., & Zhang, G. **(2018, July).** *Engagement in speaking English and Chinese as second languages.* Paper presented at the Modern Language Teachers' Association of Western Australia (MLTAWA) Biennial State Conference, Perth, Australia.

Long, C. S., **Fraser, B. J.,** & Sinclair, B. B. (2018, April). *Differential effectiveness of alternative middle school science sequences for students of different ethnicities.* Paper presented at the annual meeting of American Educational Research Association, New York City, USA.

Mansfield, C.F., & **Beltman, S.** (2018, September). Building teacher resilience: Inclusion through online, personalised and self-directed learning. In **S. Beltman** (Chair), *Inclusion and exclusion at the heart of global perspectives on teacher resilience.* Invited symposium for the World Education Research Association (WERA) conducted at the European Conference on Educational Research (ECER), Bolzano, Italy.

Mercieca, **P.** (2018, September). Dance culture and gendered identities: 50 years of Northern Soul. In S. Dovchin (Chair), *Promoting human rights education.* Panel presentation at the Humanities LGBTIQ+ ALLY conference, Curtin University, Perth, Australia.

Merewether, **J**. (2018, August). *Listening with young children: Enchanted animism of trees, rocks, clouds (and other things).* Paper presented at the Western Australian Institute for Educational Research Annual Research Forum, Fremantle, Australia.

Merewether, **J.** (2018, August). *Listening with children as citizens of the present: Possibilities and practicalities.* Invited talk at the Perth Reggio Network, Edith Cowan University, Perth, Australia.

Merga, M. K. (2018, May). *Reflections on reading.* Keynote presentation at the AISNSW Teacher Librarian Conference, State Library of NSW, Macquarie Street, Sydney, Australia.

Morey, V., Walker, R., & Pelliccione, L. (2018, April). *Supporting and including non-traditional online students: Innovative approaches to LMS design.* Paper presented at the 5th Open Universities Widening Participation Conference, Milton Keynes, England.

Morris, J., **Paris, L.F.,** & Nykiel A. (2018, September). *The digital distraction and digital Sabbath - an early career Arts teacher resilience strategy.* Paper presented at the Australian Council of University Art and Design Schools (Acuads) Conference, Perth, Australia.

Morrison, C., Fox, J., Alexander, C., & **Walker, R**. (2018, July). *Reporting on the final professional experience: A phenomenographic environmental scan of the policies, processes and resources for assessing graduating pre-service teachers.* Paper presented at the ATEA 2018, Melbourne, Australia.

O'Halloran, K. (2018, March). Plenary paper and workshop at the Multimodal Analysis in the Digital Media Context Forum, the Centre for Linguistics and Applied Linguistics, Guangdong University of Foreign Studies, Guangzhou, Guangdong, China.

Oliver, R. (2018, July). *Content and language integrated learning: Science and maths as a context for children to learn a second language.* Paper presented at the Modern Language Teachers' Association of Western Australia (MLTAWA) Biennial State Conference, Perth, Australia.

Oliver, R., Sato, M., Ballinger, S. (2018, March). *Teacher cognitions and practices in CLIL contexts: A case of Mandarin as a second language in Australia.* Paper presented at the American Association for Applied Linguistics (AAAL) annual conference, Chicago, USA.

Oliver, R., (2018, July). *Content and Language Integrated Learning classes for child Mandarin L2 learners: A longitudinal observational study.* Paper presented at the Modern Language Teachers' Association of Western Australia (MLTAWA) Biennial State Conference, Perth, Australia.

Oliver, R. (2018, August). *Content and Language Integrated Learning: Science and Maths as a context for children to learn a second language.* Paper presented at the International TESOL conference, Ho Chi Min City, Vietnam.

Oliver R. (2018, November). *The diverse interactions of Aboriginal EALD speakers: Codeswitching, translanguaging or "whatever"...* Keynote talk at the Applied Linguistics Association of Australia annual conference, University of Wollongong, Australia.

Owen, S. (Invited Participant). (2018, March). *Chamber of Commerce and Industry WA and FORM creative education roundtable with Paul Collard.* Perth, Australia.

Owen, S. (2018, July). *Testing and creating democracy: Community education from Italy to the wider world.* Paper presentation at the Australian Women's History Network Symposium, Gender Institute, ANU, Canberra, Australia.

Owen, S. (2018, July). *Walt Disney takes a transnational turn.* Panel presentation at the Australian Historical Association Conference, ANU, Canberra, Australia.

Owen, S. (Convenor). (2018, July/August). The public lecture series for the Humanities and Social Sciences (HASS) Week (WA), Perth, Australia.

Owen, S. (2018, August). *Shared history/ies but divided memory/ies? Frameworks for teaching and approaching contested histories.* Paper presentation at the Tertiary History Educators Australasia symposium, University of Newcastle, Australia.

Owen, S. (2018, August). *The history wars in the classroom in far North Queensland – what does reconciliation mean?* Paper presentation at the Western Australian Institute for Educational Research Annual Research Forum, Fremantle, Australia.

Owen, S. (2018, November). *Teaching, testing and creating democracy: Community education from Italy to the wider world, 1948-1990.* Panel presentation at the History of Education (UK) conference, St Mary Immaculate College, Limerick, Ireland.

Owen, S. (2018, November). *Teaching to create democracy: Ilys Booker's use of Danilo Dolci's methods in 1950s West London.* Paper presented at the History of Education Society Annual Conference, Limerick, Ireland.

Owen, S. (2018, November). *The place of the First World War in the telling of Italian unification.* Paper presented at the Association for the Study of Modern Italy Conference, Istituto Italiano di Cultura, Belgrave Square, London, UK.

Owen, S. (2018, November). *The place of the First World War in the telling of Italian unification OR How the spiritual replaced the territorial.* Keynote panel presentation at the Association of Modern Italy Conference, Belgrave Square, London, UK.

Pagram, J. **Cooper, M.,** Jin, H., Vonganusith, V. (2018, August). *The future is here: Thai and Australian lecturers' use of technology in their teaching.* Paper session presented at the Singapore Education Technology Conference, Singapore.

Paris, L. (2018, June). *PST exploring the benefits of artists in residence programs in WA schools*. Paper presented at the International Arts in Society Conference, Vancouver, Canada.

Paris, L. (2018, June). *PST perceptions of inclusive education practice in WA*. Paper presented at the International Arts in Society Conference, Vancouver, Canada.

Paudel, N., Jansz, J., Smith, R., **Walker, R.**, Bay, J. H., & Swapan, A. Y. (2018). *International students perception of how ergonomic factors affect online learning*. Paper presented at the 9th Education, Research and Development International Conference, Bulgaria.

Pelliccione, L., Walker, R., Morey, V., & Beltman, S. (Presenters/Contributors). (2018, July). *Large scale online teacher education: Initiative, implementation and issues*. Innovation and practice workshop conducted at the ATEA 2018, Melbourne, Australia.

Pelmo, M. (2018, November). *Investigating introductory computer programming and student learning outcomes at Royal University of Bhutan*. Poster session presented at the meeting of Schlumberger Foundation Faculty for the Future Foundation, Abu Dhabi, UAE.

Rennie, L. J. (2018, July). *How to support self-directed learning in science and technology: Lessons from adult learners*. Paper presented at the Annual Conference of the Australasian Science Education Research Association, Gold Coast, Queensland, Australia.

Rijken, P. E., **Aldridge, J. M.,** & **Fraser, B. J.** (2018, April). *Validation and use of an instrument to assess and monitor the school-level environment*. Paper presented at the Annual Meeting of American Educational Research Association, New York City.

Safwan, A. A., **Treagust, D. F**, & Zadnik, M. (2018, December). *An Arabic culture model of conceptual change*. Paper presented at the 2nd Inter-regional Research Conference on Science and Mathematics Education, American University of Beirut, Lebanon.

Sampson, D. (Program Committee Member). (2018, January). *The 9th International Conference on E-Education, E-Business, E-Management and E-Learning (IC4E)*, San Diego, USA.

Sampson, D. (Program Committee Member). (2018, February). *International Conference on Communication, Computing & Internet of Things (IC3IoT)*, Sri Sai Ram Engineering College, Chennai, India.

Sampson, D. (2018, June). *Educational data analytics for online professional development*. Keynote talk at the Workshop on Open Educational Resources for Professional Development, The National Centre for Public Administration and Local Government (EKDDA), Institute of Training, Athens, Greece.

Sampson, D. (2018, July). *Educational data analytics for supporting teaching and learning in online education*. Keynote talk at the International Conference on Open and Innovative Education (ICOIE 2018), Open University of Hong Kong (OUHK), Hong Kong.

Sheffield, R. (2018, October). *STEAM Marketplaces: 'Made for play'*. Keynote talk at the Cross-Disciplines Thinking: 0-9 STEAM Education Present and Future conference, Pingtung National University, Taiwan.

Sirrakos, G., **Fraser, B. J.**, Kraal, E., & Epstein, A. (2018, April). *Effectiveness of place-based, audio-narrative assignments in undergraduate introductory science*. Paper presented at the annual meeting of American Educational Research Association, New York City, USA.

Smith, C. A. (2018, April). *Girls empowered! A gender specific mentoring program.* Paper presented at the Global Conference on Education and Research (GLOCER) University of Nevada, Las Vegas, USA.

Smith, C. A. (2018, April). *Utilizing motivational interviewing as intervention for middle school students with severe behaviours.* Paper presented at the Global Conference on Education and Research (GLOCER) University of Nevada, Las Vegas, USA.

Tan, S. (2018, June). *Mapping student engagement with 360 degree video content through use-annotations and analytic visualisation.* Paper presented at Media and Learning 2018: Video in Higher Education Conference, Leuven, Belgium.

Tang, K. S. (2018, March). *Forging a convergence between disciplinary literacy and scientific practices.* Invited presentation at the Presidential Symposium at the National Association of Research in Science Teaching (NARST) International Conference, Atlanta, USA.

Tang, K. S. (2018, December). *Metalanguage as an explicit literacy instruction on scientific language, representations and practices.* Invited plenary keynote talk at the Multiliteracies for Senior School Science Symposium, Melbourne, Australia.

Tang, K. S., Won, M., Treagust, D. F., Mocerino, M., & Tasker, R. (2018, November). *Multimodal affordances of virtual reality (VR) for visualizing and learning molecular interactions.* Invited presentation at the Animations in School Science Symposium, Sydney, Australia.

Treagust, D. F. (2018, April-May). *Inquiry-based learning: International perspectives.* Panel discussion at the annual International Conference on Education in Mathematics, Science and Technology (ICEMST), Marmaris, Turkey.

Treagust, D. F. (2018, April-May). *The importance of multiple representations for teaching and learning science.* Keynote talk at the annual International Conference on Education in Mathematics, Science and Technology (ICEMST), Marmaris, Turkey.

Treagust, D. F. (2018, June). *Learning physics with multiple external representations: Recommendations for future research.* Paper presented at the Australasian Science Education Research Association Conference, Surfers Paradise, Queensland, Australia.

Treagust, D. F. (2018, August). *Teacher professional development in Australia: From individual initiatives to meeting requirements of professional standards.* Keynote talk at The Interplay of Theory and Practice in Teacher Education international conference, Koblenz, Germany.

Treagust, D. F. (2018, October). *Multiple representations and student's reasoning skills in biology education.* Keynote talk and a workshop at the International Seminar on Bioscience and Biological Education (ISBBE), Indonesia.

Treagust, D. F. (2018, November). *Conceptual change and multiple representations.* Invited talk at the 1st International Science Education Research Forum for the opening of the International Centre for Science Education Research in the Faculty of Education, Beijing Normal University, Beijing, China.

Treagust, D. F. (2018, December). *Understanding multiple representations: An important key to learning science.* Keynote address at the 2nd Inter-regional Research Conference on Science and Mathematics Education, American University of Beirut, Lebanon.

Treagust, D. F., AlGhamdi, R.A., Vishnumolakala, V. R., & Won, M. (2018, April). *What are Saudi girls' stereotypes of being a scientist or physicist?* Paper presented at the annual meeting of the American Educational Research Association, New York City, USA.

Treagust, D. F., Qureshi, S., Southam, D., Mocerino, M., Vishnumolakala, V., & Ojeil, J. (2018, July). *Teaching and learning chemistry by POGIL in a high-context culture: The case of Qatar.* Invited presentation at the International Conference of Chemistry Education, Sydney, Australia.

Treagust, D. F., Vishnumolakala, V. R., Ojeil, J., Qureshi, S., Mocerino M., & Southam, D. (2018, April). *Impact of process-oriented guided inquiry learning on grade 10 chemistry students' perceptions in Qatar.* Paper presented at the annual meeting of the American Educational Research Association, New York City, USA.

Walker, R. (2018, January). *Building cross-institutional research in professional experience.* Symposium conducted by the Teacher Education Research AARE SIG at the University of Melbourne, Melbourne, Australia.

Whitsed, C. & Dolman. K. (2018, July). *Finding value in standards: Scholarship in practice. Re-valuing Higher Education.* Paper presented at the annual conference of the Higher Education Research and Development Society of Australasia (HERDSA), Adelaide, Australia.

Whitsed, C., & van Hende, F. (2018, September). *IoC as an organisational change process*. Paper presented at the annual conference of the European Association of International Education, Geneva, Switzerland.

Wilkins, C., **Gobby, B.** & Keddie, A. (2018, September). *The neo-performative teacher: School reform, entrepreneurialism and the pursuit of educational equity.* Paper presented at the ECER Conference, Bolzano, Italy.

Williams, P. J. (2018, May). *Principles of teaching and learning in STEM.* ISET 2018. Keynote presentation at the 6th International Conference for Science Educators and Teachers, Srinakharinwirot University, Bangkok, Thailand.

Williams, P. J. (2018, June). *Research about research: Trends in research about technology education*. Keynote talk at the Rockelstad Seminar, Swedish Centre for School Technology Education, Linköping University, Rockelstad, Sweden.

Williams, P. J. (2018, June). *STEM education: Is it sustainable?* Keynote talk at the International Mobile Learning Festival, Singapore.

Williams, P. J. (2018, June). *STEM pedagogy: The application of good practice.* Keynote talk at the School – University Partnerships Symposium: Teacher Learning and Teaching in the age of STREAM, University of Hong Kong, Hong Kong.

Williams, P. J. (2018, June). *Technology education in Australia: A critical review*. Keynote talk at the Rockelstad Seminar, Swedish Centre for School Technology Education, Linköping University, Rockelstad, Sweden.

Won, M., Tang, K. S., Treagust, D. F., Mocerino, M., & Tasker, R. (2018, July). *Using interactive immersive virtual reality to enhance students' visualization of complex molecules*. Paper presented at the International Conference of Chemistry Education, Sydney, NSW.

Won, M., Treagust, D. F., Tang, K. S., McLure, F., Lee, H., Mun, K., & Choi, Y. (2018, January). *Drawing diagrams to construct scientific understanding of kinetic theory of matter*. Paper

presented at the annual international conference of the Korean Association of Science Education, Seoul, Korea.

Won, M., Treagust, D. F., Tang, K. S., McLure, F., Lee, H., Mun, K., & Choi, Y. (2018, July). *Drawing explanatory diagrams to construct a scientific understanding of particle theory*. Paper presented at the International Conference of Chemistry Education, Sydney, NSW.

Invited lectures and seminars

Bennett, D. (2018, March). *Developing students' ability to succeed as graduates: Embedding employability as metacognition*. Invited lecture conducted at Hong Kong Baptist University, Hong Kong.

Bennett, D. (2018, March). *Developing students' ability to succeed as graduates: Embedding employability as metacognition*. Invited lecture conducted at Hong Kong University of Science and Technology, Hong Kong.

Bennett, D. (2018, March). *How to strengthen students' employability with flipped classroom approach.* Invited lecture conducted at the City University of Hong Kong, Hong Kong.

Bennett, D. (2018, March). *Reflections on and in critical service learning*. Invited lecture conducted at the Hong Kong Polytechnic University Centre for Service Learning, Hong Kong.

Bennett, D. (2018, March). *Rethinking employability as metacognition.* Invited lecture conducted at Hong Kong University, Hong Kong.

Bennett, D. (2018, April). *Helping student create their futures: EmployABILITY thinking without more content!* Lecture conducted at the Centre for Research in Entertainment, Arts, Technology, Education and Communications. Edith Cowan University, Perth, Australia.

Bennett, D. (2018, October). *Creating a future in music*. Lecture conducted at the University of Western Australia 2018 seminar series. University of Western Australia, Perth, Australia.

Cooke, A. (2018, June). *Informal mathematics in preschool.* Lecture conducted at Stockholm University. Retrieved from https://www.mnd.su.se/om-oss/nyheter/seminarium-om-informell-matematik-i-f%C3%B6rskolan-1.389504

Cooke, A. (2018, December). *The pathway to here: Helping all students engage with mathematics*. Paper presented at the Abteilung Grundschulpädagogik - Lernbereich Mathematik, Institut für Erziehungswissenschaften; Kultur-, Sozial- und Bildungswissenschaftliche Fakultät, Humboldt-Universität zu Berlin [Department of Primary Education – Mathematics, Institute of Education; Cultural, Social and Educational Faculty, Humboldt University of Berlin], Berlin, Germany.

Dovchin, S. (2018, May). *The politics of injustice in translingualism: Linguistic racism*. Invited talk at the University of Western Australia, Perth, Australia.

Gobby, B. (2018, February). *The educator's duty: Safe Schools and other political controversies.* Inaugural orientation lecture presented at the School of Education, Curtin University, Perth, Australia.

Merewether, J. (2018, July). *The outdoors as a pedagogical space: More than a playground.* Invited talk at the Australian College of Educators, Perth, Australia.

Merewether, J. (2018, December). *Conceptions of children and childhood: Where play begins* Invited lecture at Murdoch University, Perth, Australia.

Morris, J., **Paris, L.F.,** & Nykiel A. (2018). *The digital distraction and digital Sabbath - an early career Arts teacher resilience strategy* [Invitation]. Creative Works Research Project invited to the Moores Contemporary Art Gallery Feb 21 - 8 March 2020, Perth, Australia.

Owen, S., & Arabindan-Kesson, A. (2018, August). *Black bodies white gold: Art, cotton and commerce in the Atlantic World.* Invited talk for the Culture and History series at Mello House, Perth, Australia.

Owen, S., & Glisic, I. (2018, June). *Contemporary politics in Saudi Arabia.* Invited talk for the Culture and History series at Mello House, Perth, Australia.

Owen, S., & Rich, B. (2018, September). *Contemporary politics in Saudi Arabia.* Invited talk for the Culture and History series at Mello House, Perth, Australia.

Tang, K. S. (2018, December). *Mutual coordination between representation transformation and classroom discourse progression: Methodological and pedagogical issues.* Invited seminar at Deakin University, Melbourne.

Grants

Beltman, S. (Principal Investigator), **Walker, R., Morrison, C., & Morey, V.** (2018). *Building professionalism through Work Integrated Learning (WIL) in fully online teacher education.* School of Education RISP grant ($7700).

Bennett, **D.** (2018). *Developing a sector-wide approach to embedding employABILITY thinking in business* [Strategic project]. Australian Business Deans Council ($10,000).

Bennett, D. (2018). *Developing employability: A new personalised profile tool for education and business.* Curtin Accelerate Program ($5,000).

Bennett, D. (2018). *EmployABILITY thinking.* ARC, CI, HASS seed funding ($5,000).

Bennett, D. (2018). *EmployABILITY thinking and the future of STEM in WA.* Future of Work Institute funding, State Government ($20,000).

Bennett, D. (2018). *Publications grant for editorial support.* CI, Australia-Asia-Pacific Institute ($3,000).

Bennett, D., Ferns, S., Gardner, A., Smith, J., Russell, J., Smith, M., Kay, J., McAlpine, A., O'Haram J., **Howell, J.**, Kastanos, D., & Bridgstock, R. (2018). *Creating an ATN WIL and Employability Development Resource Portal.* Australian Technology Network ($30,000).

Burke, R., Carroll, K., Henderson, D., **Owen, S.**, Roberts, P., Sharp, H. and Zarmati, L. (2018). *Signature assessment tasks in history teacher education*. University of Newcastle (NSW) Faculty's Strategic Networks and Pilot Projects (SNaPP) (AUD 15000).

Chen, J., & **Hasegawa, H.** (2018). *Development of a computerised oral testing programme and investigation of its impact on the speaking performance and perceptions of first-year Japanese learners.* RISP ($7989.14)

Chen, J., & **Sims, C.** (2018). *Enhancing OUA students' online learning experience and task engagement through virtual community building in a multimodal digital platform (VoiceThread).* SLATE ($4958.50).

Davies, S. & **Owen, S.** (2018). *City of Canning play spaces*. Seed Funding (AUD 5000).

Davies, S. & **Owen, S.** (2018). *Digital literacies and digital technologies in the Montessori classroom* [Action research project]. Beehive Montessori School ($8,000).

Dovchin, S. (2018). *Research leadership and conducting best practice in research activity.* Australian Research Council Kathleen Fitzpatrick Laureate Mentoring Scheme, ARC (no specific amount).

Lambert, C. (2018). *Category 1 Seeding Grant*. Humanities and Social Science (HASS) Grant Success Panel.

Lambert, C. (2018). *The Role of Planning in L2 Task Performance* [A collaborative project with Kansai University and Kinki University in Osaka, Japan]. Round 1 RISP Grant.

Mangan, C., Cicarelli, M., **Bennett**, D., Booth, V., Bradford, D., Ireland, D., Jackson, C., Nadachowski, W., & Gibbs, V. (2018). *MyWay Employability*. Telstra Foundation Tech4Good, Autism CRC ($450,000).

Martin, K. (Principal Investigator), Milroy, H., Kelty, E., **Walker, R., Dobson, M.,** Egeberg, H., & Smyth, D. (2018). *Responding to the impact of child abuse and domestic violence and reducing suicidality risk through trauma-informed schooling*. UWA Research Income Growth Grant ($19,830).

Martin, K., Wood, L., Milroyp, H., Kelty, E., **Walker, R., Dobson, M.,** Parker, R., Egeberg, H., Smyth, D. (2018). *Responding to the impact of child abuse and domestic violence and reducing suicidality risk through trauma-informed schooling*. UWA Research Income Growth ($19,830).

Merga, M. (2018). *Teacher librarians as Australian literature advocates in schools.* Copyright Agency Cultural Fund ($21,000).

Morrisby, C., Sanderson, B., Flavell, H., **Bennett**, D., Franklyn, K., Timms, L., Smart, S., Waters, R., Fernandes, T., Hunter, S., & van Kessel, G. (2018). *Careering ahead: Embedding employability thinking in undergraduate curricula.* Curtin University ($18,908).

O'Halloran, K., Bateman, J. (Bremen University, Germany), Mohr, J. (University of California, Santa Barbara, USA), & Bhatt, M. (Örebro University, Sweden). (2018). *Multimodal rhetoric in online media communications.* Center for Interdisciplinary Research (ZiF), Bielefeld University, Germany (250,000 Euros + funding for a Research Groups Coordinator).

Owen, S. (2018). *Teaching, testing and creating democracy: Community education from Italy to the Wider World, 1948-1990.* Curtin University HASS Seed Funding (AUD 5000).

Owen, S., & Arabindan-Kesson, A. (2018). *Animating archives: Using digital technologies to re-vision contested histories*. Seed Funding, Centre Human Values, Princeton University (USD 9725).

Pedigo, K., Dayaram, K., Tiwari, R., **Bennett**, D., Ananthram, S., Lord, L., Gopee, S., Ramanan, S., & Chau, C. (2018). *Aligning social leadership thinking and employability through interdisciplinary WIL*. Curtin University ($22,644).

Rohl, A., Hodkiewicz, M., Small, M., Loxton, R., **O'Halloran, K.**, Tan, T., Calo, V., Reynolds, M., Howard, I., Liu, W., Aldrich, C., While, R., French, T., Cripps, E., Mudge, C., Cardell-Oliver, R., Griffin, M., Fraser, R., Klump, J., Brown, G., Lomman, M. (2018). *ARC Training Centre for Transforming Maintenance through Data Science*. ARC ($3.9million) + industry ($3.0 million) + other eligible organisations ($800K) + other partners ($240K). Total value (in cash): $8.0 million.

Sampson, D. (2018). *Learn2Analyze (L2A): An academia-industry knowledge alliance for enhancing online training professionals' instructional designers' and e-trainers' competences in educational data analytics, European Commission.* Erasmus+ Knowledge Alliances Cooperation for innovation and the exchange of good practices (EAC/A03/2016, 2018-2020 [Curtin's funding: 98,173€ ~ $153.000 AUD]).

Sampson, D. (2018). *OSOS: Open schools for the open society.* European Commission, Horizon 2020 Framework Programme, Science with and for Society: Open Schooling and Collaboration on Science Education (H2020-SwafS-15-2016).

Sampson, D. (2018). *STORIES: Stories of tomorrow – Students' visions on the future of space exploration.* European Commission, Horizon 2020 Framework Programme, HORIZON2020-ICT22, 2017-2019.

Smith, C. (2018). *Academic writing for researchers and leaders in education*. SLATE.

Tsai, C.-C., Tasker, R., **Won, M., Tang, K.-S., Treagust**, D. F., Mocerino, M. (2018). *Using immersive virtual reality to enhance students' science visualization.* ARC Discovery ($384K).

Walker, R. (Principal Investigator), **Morey, V., Morrison, C.** (2018). *Online initial teacher education students' demographics and achievement.* School of Education RISP grant ($5593).

Walker, R., & **Oliver, R.** (2018). *Service research and school partnerships: Teacher feedback.* Willetton SHS ($2,000).

Walker, R. (Principal Investigator)**, Oliver, R**., & MacKenzie, R. (2018). *Student perceptions of feedback*. School of Education RISP grant ($5158.27).

Walker, R. (Principal Investigator)**, Oliver, R**., & MacKenzie, R. (2018). *Student perceptions of feedback*. Willetton Senior High School funding ($2000).

Wigglesworth, J., **Oliver, R**., McNamara, T., & Knoch, U. (2018). *Towards culturally inclusive language assessments for Aboriginal students.* ARC Discovery ($445,000).

Williams, J. & Pimthang, P. (2018). *Thai educators' perceptions of STEM education*. Ministry of Education in Thailand ($26,000).

Won, M. (2018). *Shooting arrows in an immersive virtual reality to learn physics concepts.* Curtin University HIVE summer internship ($7K).

Theses

Aluri, V. (2018). *Investigating mathematics teachers' use of students' prior knowledge and its impact on students' perception of the learning environment, achievement and attitudes* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Becker, A. (2018). *Linguistic and cultural analysis of empathy: Strategies for Japanese-English translation* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Beleckas, G. (2018). *An assessment of the attitudes, motivation and achievement of fourth and fifth grade students learning mathematics in two to one computing environment* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Bloomfield, L. (2018). *How do art educators know that what students are producing has veracity, honour, integrity and purpose?* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Bottomley, D. (2018). *Science, education and social vision of five nineteenth century headmasters* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Bullock, D. (2018). *ECEC educator perspectives toward administrative burden of quality improvement plans and its impact on role-identity and relationships* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Burdakova, Y. (2018). *Investigating the impact of the learning environment on students' motivation and self-regulation: Creating motivation-driven mathematics and science classrooms* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Cameron, G. (2018). *Inter-cultural coaching: Developing educational leadership in the United Arab Emirates* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Cvovo, D. (2018). *Evaluation of a constructivist learning environment in secondary school mathematics for Arabic learners whose second language is English* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

DeVries, J. (2018). *University student equity initiatives: An examination of the efficacy of programs and practice to inform best practice* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Eaves, N. (2018). *Rising waves, breathless wind. Lacan, Zen and adolescence: Illuminating Sunyata in the dualism of education* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Enoma, S. (2018). *Understanding the number sense competence of high school students with borderline, mild and moderate intellectual disabilities* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Finau, T. (2018). *Cognitive acceleration in mathematics education in Tonga: Effects on students' mathematics achievement, mand self-regulation* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Galos, S. (2018). *Investigating students' perceptions of the learning environment, use of ICT, self-efficiency and enjoyment in primary school classrooms: Effects and determinants* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Galvin, E. (2018). *The use of information and communication technology-based science resources by New South Wales stage 3 primary school teachers* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Kakai, L. (2018). *School-based assessment of physics concepts in science education: A Solomon Islands case study* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Lake, G. (2018). *The effect of teaching and learning strategies on conceptual and attitudinal change of gifted primary students* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Liddell, F. (2018). *A philosophical inquiry into writing* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

McLure, F. (2018). *A critical evaluation of the thinking frames approach as a teaching strategy for multidimensional conceptual change in the science classroom* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Oakes, I. (2018). *Internationalizing the Australian primary school curriculum* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Petersen, J. (2018). *A longitudinal study of preservice teachers and their beliefs about teaching and learning science* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Rajan, R. (2018). *Tamil and Tamils: A study of language and identity amongst the Indian Tamil community in Singapore* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Robinson, E. (2018). *Pedagogy of being present: An inquiry into the unconditional communion of listening* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Sayed, A. (2018). *Science classroom learning environments in Afghanistan: Assessment, effects and determinants* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Sobulis, H. (2018). *Longing to belong: a phenomenological inquiry into reflections of a cross-cultural childhood* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

Stockwell, M. (2018). *Developing effective formative assessment practices for year 12 mathematics A classes* (Unpublished doctoral dissertation). Curtin University, Perth, Australia.

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