

Publications for Judy Anderson

2017

Geiger, V., Anderson, J., Hurrell, D. (2017). A case study of effective practice in mathematics teaching and learning informed by Valsiner's zone theory. *Mathematics Education Research Journal*, 29(2), 143-161. [More Information]

Tully, D., Poladian, L., Anderson, J. (2017). Assessing the creation of value in a community of practice linking pre-service and in-service mathematics teachers. *40th Annual Conference of the Mathematics Education Research Group of Australasia (MERGA 2017)*, Melbourne: MERGA Inc. [More Information]

Anderson, J., Katrak, Z. (2017). Higher order thinking, engagement and connectedness in lessons based on STEM contexts. *41st Conference of the International Group for the Psychology of Mathematics Education (PME41)*, Singapore: PME.

Carmichael, C., Callingham, R., Anderson, J. (2017). Introduction to MERJ special issue, "Theoretical foundations of engagement in mathematics: empirical studies from the field". *Mathematics Education Research Journal*, 29(2), 131-132. [More Information]

Durksen, T., Way, J., Bobis, J., Anderson, J., Skilling, K., Martin, A. (2017). Motivation and engagement in mathematics: A qualitative framework for teacher-student interactions. *Mathematics Education Research Journal*, 29(2), 163-181. [More Information]

Anderson, J. (2017). The STEM teacher enrichment academy approach. *40th Annual Conference of the Mathematics Education Research Group of Australasia (MERGA 2017)*, Melbourne: MERGA Inc.

2016

Bobis, J., Way, J., Anderson, J., Martin, A. (2016). Challenging teacher beliefs about student engagement in mathematics. *Journal of Mathematics Teacher Education*, 19(1), 33-55. [More Information]

Tully, D., Poladian, L., Anderson, J. (2016). Evolving a community of practice to enhance the pre-service experience of mathematics teachers (Poster). *Australian Conference on Science and Mathematics Education (The 22nd UniServe Science Conference)*, Brisbane.

Tully, D., Anderson, J., Poladian, L. (2016). Improving retention of pre-service teachers through expanding communities of practice (Poster). *International Congress on Mathematical Education*, Hamburg, Germany.

Anderson, J. (2016). Inquiry-based learning. In G. Hine, R. Reaburn, J. Anderson, L. Galligan & C. Carmichael (Eds.), *Teaching secondary mathematics*, (pp. 117-145). Great Britain: Cambridge University Press.

Hine, G., Reaburn, R., Anderson, J., Galligan, L., Carmichael, C., Cavanagh, M., Ngu, B., White, B. (2016). *Teaching secondary mathematics*. Great Britain: Cambridge University

Press.

Beswick, K., Anderson, J., Hurst, C. (2016). The Education and Development of Practising Teachers. In K. Makar, S. Dole, J. Visnovska, M. Goos, A. Bennison, K. Fry (Eds.), *Research in Mathematics Education in Australasia 2012-2015*, (pp. 329-352). Singapore: Springer. [More Information]

Little, J., Anderson, J. (2016). What factors support or inhibit secondary mathematics pre-service teachers' implementation of problem-solving tasks during professional experience? *Asia-Pacific Journal of Teacher Education*, 44(5), 504-521. [More Information]

Skilling, K., Bobis, J., Martin, A., Anderson, J., Way, J. (2016). What secondary teachers think and do about student engagement in mathematics. *Mathematics Education Research Journal*, 28(4), 545-566. [More Information]

2015

Martin, A., Way, J., Bobis, J., Anderson, J. (2015). Exploring the ups and downs of mathematics engagement in the middle years of school. *The Journal of Early Adolescence*, 35(2), 199-244. [More Information]

Lee, K., Anderson, J. (2015). Gender differences in mathematics attitudes in coeducational and single sex secondary education. *38th annual conference of the Mathematics Education Research Group of Australasia (MERGA 2015)*, Sunshine Coast, Australia: MERGA.

Way, J., Reece, A., Bobis, J., Anderson, J., Martin, A. (2015). Improving student motivation and engagement in mathematics through one-to-one interactions. *38th annual conference of the Mathematics Education Research Group of Australasia (MERGA 2015)*, Sunshine Coast, Australia: MERGA. [More Information]

Way, J., Bobis, J., Anderson, J. (2015). Teacher representations of fractions as a key to developing their conceptual understanding. *39th Conference of the International Group for the Psychology of Mathematics Education (PME39)*, Hobart, Australia: Psychology of Mathematics Education (PME).

Taing, M., Bobis, J., Way, J., Anderson, J. (2015). Using metaphors to assess student motivation and engagement in mathematics. *39th Conference of the International Group for the Psychology of Mathematics Education (PME39)*, Hobart, Australia: Psychology of Mathematics Education (PME).

Anderson, J. (2015). What I have learnt about teaching mathematics from my students. *Reflections*, 40(4), 9-17.

2014

Dimarakis, N., Bobis, J., Way, J., Anderson, J. (2014). "I just need to believe in myself more": The mathematical self-belief of year 7 students. *Curriculum in Focus: Research guided practice. 37th annual conference of the Mathematics Education*

Research Group of Australasia, Sydney: MERGA.

Anderson, J., Cavanagh, M., Prescott, A. (2014). *Curriculum in focus: Research guided practice (Proceedings of the 37th annual conference of the Mathematics Education Research Group of Australasia)*. Sydney: MERGA.

Anderson, J. (2014). Forging new opportunities for problem solving in Australian mathematics classrooms through the first national mathematics curriculum. In Yeping Li, Glenda Lappan (Eds.), *Mathematics curriculum in school education*, (pp. 209-229). Dordrecht: Springer. [More Information]

Lee, K., Anderson, J. (2014). Who is really interested in mathematics: An investigation of lower secondary students' mathematical role models. *Curriculum in Focus: Research guided practice. 37th annual conference of the Mathematics Education Research Group of Australasia*, Sydney: MERGA.

2013

Hendry, G., Anderson, J. (2013). Helping students understand the standards of work expected in an essay: Using exemplars in mathematics pre-service education classes. *Assessment and Evaluation in Higher Education*, 38(6), 754-768. [More Information]

Anderson, J. (2013). Problem solving and reasoning in Stage 3: What does it look like in the new NSW syllabus? In C. Attard & A. L. White (Eds.), *Creativity and mathematics: Release your mathimagination!*, (pp. 5-12). NSW: The Mathematical Association of New South Wales (MANSW) Inc.

Way, J., Bobis, J., Anderson, J., Cameron, L. (2013). Representations of concepts as a catalyst for change in teacher pedagogical content knowledge. *Procedia: Social and Behavioral Sciences*, 106, 2248-2258. [More Information]

Zuber, E., Anderson, J. (2013). The initial response of secondary mathematics teachers to a one-to-one laptop program. *Mathematics Education Research Journal*, 25(2), 279-298. [More Information]

2012

Chambers, B., Anderson, J., Waugh, F., Markauskaite, L., Barnes, J. (2012). Investigating inclusion and exclusion reasons for student attrition in first year at university. *2012 Joint International Conference of the Australian Association for Research in Education (AARE) and the Asia Pacific Educational Research Association (APER)*, Sydney: Australian Association for Research in Education (AARE).

Anderson, J., White, P., Wong, M. (2012). Mathematics curriculum in the schooling years. In B. Perry, T. Lowrie, T. Logan, A. MacDonald and J. Greenlees (Eds.), *Research in Mathematics Education in Australasia 2008-2011*, (pp. 219-244). Rotterdam: Sense Publishers. [More Information]

White, P., Anderson, J. (2012). Pressure to perform: reviewing the use of data through professional learning conversations. *Mathematics Teacher Education and Development*, 14(1), 60-77.

Lee, K., Anderson, J. (2012). Secondary students' mathematics homework beliefs and behaviours: a pilot study. *Curriculum Perspectives*, 32(3), 48-60.

Martin, A., Anderson, J., Bobis, J., Way, J., Vellar, R. (2012). Switching On and Switching Off in Mathematics: An Ecological Study of Future Intent and Disengagement Among Middle School Students. *Journal of Educational Psychology*, 104(1), 1-18. [More Information]

Way, J., Anderson, J., Bobis, J. (2012). Teaching Mathematics: The Long Journey for Teachers (Editorial). *Mathematics Teacher Education and Development*, 14(1), 1-1.

2011

Bobis, J., Anderson, J., Martin, A., Way, J. (2011). A Model for Mathematics Instruction to Enhance Student Motivation and Engagement. In Daniel J. Brahier (Eds.), *Motivation and Disposition: Pathways to Learning Mathematics - 73rd Yearbook*, (pp. 31-42). Reston, US: National Council of Teachers of Mathematics. [More Information]

Anderson, J. (2011). Implementing problem solving in Australian classrooms: Addressing students' and teachers' beliefs. *23rd Biennial Conference of the Australian Association of Mathematics Teachers and 34th Annual Conference of the Mathematics Education Research Group of Australasia (AAMT/MERGA 2011)*, Adelaide, Australia: The Australian Association of Mathematics Teachers (AAMT) Inc.

Martin, A., Bobis, J., Anderson, J., Way, J., Vellar, R. (2011). Patterns of Multilevel Variance in Psycho-Educational Phenomena: Comparing Motivation, Engagement, Climate, Teaching, and Achievement Factors. *Zeitschrift für Pädagogische Psychologie (German Journal of Educational Psychology)*, 25(1), 49-61. [More Information]

White, P., Anderson, J. (2011). Teachers' use of national test data to focus numeracy instruction. *23rd Biennial Conference of the Australian Association of Mathematics Teachers and 34th Annual Conference of the Mathematics Education Research Group of Australasia (AAMT/MERGA 2011)*, Adelaide, Australia: The Australian Association of Mathematics Teachers (AAMT) Inc.

Way, J., Anderson, J., Bobis, J. (2011). The Centrality of the Teacher in Mathematics Education (Editorial). *Mathematics Teacher Education and Development*, 13(2), 1-2.

2010

Lo, W., Anderson, J. (2010). Beyond the Curriculum: The Mathematical Beliefs of Pre-service Primary Teachers in Hong Kong. *33rd annual conference of the Mathematics Education Research Group of Australasia - MERGA33 2010 Shaping the future of mathematical education*, Fremantle: Mathematics Education Research Group of Australasia (MERGA).

Anderson, J. (2010). Collaborative problem solving as modelling in the primary years of schooling. In Kaur, B and Dindyal, J (Eds.), *Mathematical Applications and Modelling: Yearbook 2010, Association of Mathematics Educators*, (pp. 78-93). Singapore: World Scientific Publishing. [More Information]

Hoban, G., Herrington, T., Kervin, L., Ewing, R., Anderson, J., Smith, D. (2010). Final Report of Evaluative Inquiry into the Sustainability of Professional Learning through School-Based Action Learning. In Anne Campbell, Susan Groundwater-Smith (Eds.), *Action Research in Education*, (pp. 103-120). Los

Angeles: Sage Publications.

White, P., Anderson, J., Harte, J. (2010). NAPLAN: A springboard for improving numeracy learning outcomes. *Reflections*, 35(1), 16-19.

Anderson, J. (2010). Problem solving in the Australian mathematics curriculum: What have we learnt from other countries? *Curriculum Leadership*, 8(1).

Way, J., Anderson, J., Bobis, J. (2010). The Importance of Teacher Knowledge and Teacher Thinking (Editorial). *Mathematics Teacher Education and Development*, 12(1), 1-3.

2009

Smith, D., Anderson, J. (2009). Communicating with adolescents: Through the middle years of schooling. In Higgs, Joy; Ewing, Robyn; Lowrie, Tom (Eds.), *Teaching & Communicating: Rethinking Professional Experiences*, (pp. 197-206). Melbourne, Australia: Oxford University Press.

Hayes, D., Ewing, R., Armstrong, A., Anderson, J., Wheeler, M., Smith, D., Duncan, D. (2009). *Leading Quality Professional Learning: Final report and evaluation overview*, (pp. 4 - 75). Sydney, Australia: The University of Sydney.

Anderson, J. (2009). Mathematics Curriculum Development and the Role of Problem Solving. *Australian Curriculum Studies Association National Biennial Conference ACSA 2009*, Australia: Australian Curriculum Studies Association.

Anderson, J. (2009). Using NAPLAN Items to Develop Students' Thinking Skills and Build Confidence. *22nd Biennial Conference of the Australian Association of Mathematics Teachers Inc. 2009*, Australia: Australian Association of Mathematics Teachers.

2008

Way, J., Bobis, J., Anderson, J., Martin, A. (2008). Middle years transition, engagement and achievement in mathematics: The MYTEAM project. *International Group for the Psychology of Mathematics Education. Joint Meeting of PME 32 and PME - NA XXX*, Mexico: Cinvestav-UMSNH.

Anderson, J., Bobis, J., Way, J. (2008). Teachers as learners: Building knowledge in and through the practice of teaching mathematics. In Forgasz H, Barktasas A, Bishop A, Clarke B, Keast S, Seah WT, Sullivan, Willis (Eds.), *Research in Mathematics Education in Australasia 2004-2007*, (pp. 313-334). Rotterdam, Netherlands: Sense Publishers.

Anderson, J. (2008). Teachers' motivation to attend voluntary professional development in K-10 mathematics. *31st Annual Conference of the Mathematics Education Research Group of Australasia (MERGA31)*, Brisbane: MERGA.

2007

Anderson, J. (2007). Learning difficulties in middle years mathematics: Teaching approaches to support learning and engagement. *Twenty-first biennial conference of The Australian Association of Mathematics Teachers. (AAMT 2007)*, Adelaide, Australia: Australian Association of Mathematics Teachers.

Anderson, J., Wong, M. (2007). Teaching Common Fractions in Primary School: Teachers' Reactions to a New Curriculum. *AARE's 36th Annual International Education Research Conference - Adelaide 2006*, Melbourne: Australian Association for Research in Education (AARE).

2006

Anderson, J., Moore, M. (2006). Evaluating the Professional Learning of Secondary Mathematics Teachers: Reflecting on

their Reflections!. *AARE International Education Research Conference 2005*, Australia: Australian Association for Research in Education (AARE).

Bobis, J., Anderson, J. (2006). Reform-Oriented Teaching Practices and the Influence of School Context. *29th annual conference of the Mathematics Education Research Group of Australasia*, Adelaide: MERGA Inc.

2005

Ewing, R., Hoban, G., Herrington, T., Anderson, J., Smith, D., Kervin, L. (2005). *Evaluative inquiry into the sustainability of professional learning through school-based action learning. Final report.* [More Information]

Anderson, J. (2005). Implementing Problem Solving in Mathematics Classrooms: What Support do Teachers Want? *Annual Conference of the Mathematics Education Research Group of Australasia - MERGA 28 - Building Connections: Theory, Research and Practice*, Melbourne: Deakin University Press. [More Information]

Anderson, J. (2005). Reflecting on Implementing Problem-Solving Practices in Primary Mathematics: Two Teachers' Stories. *12th ISATT International Conference - Challenges for the Profession: Perspectives and Directions for Teachers, Teaching and Teacher Education*, Sydney, Australia: International Study Association on Teachers and Teaching.

Anderson, J., Bobis, J. (2005). Reform-Oriented Teaching Practices: A Survey of Primary School Teachers. *29th Conference of the International Group for the Psychology of Mathematics Education - PME29*, Melbourne, Australia: PME.

Anderson, J., White, P., Sullivan, P. (2005). Using a schematic model to represent influences on, and relationships between, teachers' problem-solving beliefs and practices. *Mathematics Education Research Journal*, 17(2), 9-38.

Anderson, J. (2005). Working mathematically in NSW classrooms: An opportunity to implement quality teaching and learning. *20th Biennial Conference of the Australian Association of Mathematics Teachers: Making Mathematics Vital (2005)*, Sydney, Australia: AAMT.

2004

Anderson, J. (2004). Problem Solving In Learning And Teaching Mathematics. In Perry, B; Anthony, G and Diezmann (Eds.), *Research in Mathematics Education in Australia*, (pp. 127-150). Flaxton, QLD: Post Pressed.

Anderson, J. (2004). Programming the new syllabus for Years 7 and 8: A professional development opportunity. *Reflections*, 29(1), 33-40.

Anderson, J., Sullivan, P., White, P. (2004). The Influence Of Perceived Constraints On Teachers' Problem-Solving Beliefs and Practices. *Mathematics Education for the Third Millennium: Towards 2010 27th Conference of the Mathematics Education Research Group of Australasia*, Sydney, Australia: MERGA.

2003

Anderson, J. (2003). Teachers' choice of tasks: a window into beliefs about the role of problem solving in learning mathematics. *Mathematics Education Research: Innovation, Networking, Opportunity*, VIC: Deakin University.