THE PERSPECTIVES OF SCIENTISTS AND MATHEMATICIANS ON QUANTITATIVE SKILLS

Leanne Rylands\textsuperscript{a}, Vilma Simbag\textsuperscript{b}, Kelly E. Matthews\textsuperscript{b}, Carmel Coady\textsuperscript{a}, Shaun Belward\textsuperscript{c}, Peter Adams\textsuperscript{d}

Presenting Author: Leanne Rylands (l.rylands@uws.edu.au)
\textsuperscript{a}School of Computing, Engineering and Mathematics, University of Western Sydney, Penrith NSW 2751, Australia
\textsuperscript{b}Teaching and Educational Development Institute, University of Queensland, St Lucia QLD 4072, Australia
\textsuperscript{c}School of Engineering and Physical Sciences, James Cook University, Townsville QLD 4811, Australia
\textsuperscript{d}Faculty of Science, University of Queensland, St Lucia QLD 4072, Australia

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ABSTRACT

Mathematics is important in science, and becoming increasingly so. Not surprisingly, the scientific community is calling for graduates with higher standards of quantitative skills (QS), that is, the ability to apply mathematical and statistical thinking and reasoning in the context of science.

How are academics addressing this QS challenge? Some see this as an interdisciplinary endeavour, with science and mathematics academics working together to develop the QS of students in undergraduate science programs. We present evidence which suggests that scientists and mathematicians have different attitudes to what is happening in universities currently.

This work is a part of the ALTC funded QS in Science project in which 48 interviews were conducted with academics in both teaching and leadership roles from 11 universities in Australia and two in the USA.

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