

# **DISCUSSION GROUP: STOCHASTICAL THINKING, LEARNING AND TEACHING**

Coordinators:      Kath Truran, University of South Australia  
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The group's discussions will be on *the relationship between stochastic and mathematical thinking, learning, and teaching*. We consider that there is more on this theme which can usefully be discussed. It is our intention to approach this theme from multiple perspectives, including:

- Philosophical, in terms of the perceived boundaries of the disciplines.
- Historical, in terms of the developments of the disciplines.
- Educational, in terms of the positioning and implementation of the teaching and learning of stochastics within school and tertiary curricula, including such fundamental issues as teacher development, assessment, and technology.
- Psychological, in terms of the specific cognitive and sociocultural processes involved in the teaching and learning of stochastics.
- Research, in terms of cross-fertilisation of theoretical frameworks and methodologies.

The following members will present a short contribution which will be followed by discussion, questions and feedback from the other participants.

- Angustias Vallecillos Jiménez (Spain) who will speak about her work in statistical inference learning.
- Rene Ritson (Northern Ireland) who will speak about her current research study into possible relationships between young children's understanding of probability and their understanding of fractions.
- John Truran (Australia) whose subject is "The Place of Probability in Stochastical Thinking Learning and Teaching"