

PREFACE

The 2023 IASE Satellite Conference focused on 'fostering learning of statistics and data science'. With the rapid growth of AI, we face challenging but interesting times as we start seeing its impact on statistics education. All three key-note speakers, Chris Wild, Shingai Manjengwa, and Jurgen Symanzik, made reference to the importance of critical thinking and problem solving as (human) features that cannot be effectively replicated by AI. If we are to stay ahead of AI, then we need to ensure that we engage and empower our learners in high-level (statistical) thinking that a machine cannot hope to compete with, and demonstrate the superiority of our capability to reason.

Participants at the conference engaged in a variety of inspiring sessions, either in person or online, including a novel and lively panel session on *Applying Evidence-Based Principles to Foster Student Learning in Statistics and Data Science* where panelists shared their views on Lovett et al's newly published book *How Learning Works*.

Forty two conference talks and 27 poster presentations are represented in these proceedings, as papers or extended poster abstracts respectively. An overview of the panel session is also included. Of the papers, 22 are peer reviewed and are marked as such in the proceedings. Papers were refereed by two independent reviewers. For the first time, poster presenters were also given the option to have their extended poster abstract refereed and 12 such abstracts are included among the 27 in the proceedings. The refereeing process for posters was the same as that for papers.

Between the papers and poster abstracts, all continents are represented (with the exception of Antarctica!): North Americas (41), Europe (13), South Americas (9), Oceania (4), Asia (3) and Africa (1).

There are numerous individuals to thank, who have directly or indirectly supported the production of these proceedings. The local organising committee in Toronto, in particular Alison Gibbs, Bethany White and Sotirios Damouras, for not only for organizing a fantastic conference that fostered connections between educators, but for ensuring all delegates – whether online or in person - were part of the conversation. Of course, there would be no conference without presenters, so thank you to the researchers of the 69 research projects that were showcased as presentations or posters in Toronto. My personal thanks also to the authors of the associated papers and extended poster abstracts for taking the time to write their research for publication so that we can continue to share our knowledge worldwide.

One of the delights of editing these proceedings was witnessing firsthand the generosity of the statistics education community in giving up their time to review the submissions. Indeed, it is heartening and inspiring that we have a global community that is so ready to help one another in producing impactful and thought-provoking pieces of work, and I hope that this support will go from strength to strength. Thank you to all who reviewed submissions for these proceedings; a full list of reviewers is overleaf.

Finally, we owe much to the IASE committee, especially to Prof. Ayse Bilgin – the outgoing president - and to Prof. Dani BenZvi – the incoming president of the IASE. Both Ayse and Dani were in attendance at the conference. I would like to extend the thanks Prof. Ayse Bilgin who has tirelessly led the statistics education community for the last two years during a particularly difficult time in the education sector. She hands over to Prof. Dani BenZvi, who brings with him a wealth of experience in statistics education which I know will be incredibly valuable to us as a community over the coming years.

Elinor Jones

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List of reviewers of the Proceedings for the 2023 IASE Satellite Conference

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