

Statistics Education 2026+

Bruno de Sousa¹

¹Faculty of Psychology and Education Sciences, CINEICC, University of Coimbra

Abstract

Statistical education is undergoing rapid transformation in response to global challenges and technological advances. There is a growing emphasis on equity, inclusion, and cultural diversity, calling for educational practices that are globally relevant, accessible, and ethically grounded. The rise of generative AI, machine learning, data-based algorithmic systems and data science presents both significant and complex challenges. Students not only must learn how to use these tools, but also how to critically evaluate them, underscoring the urgent need for updated curricula that emphasize critical thinking, data ethics, and a clear understanding of the limitations of such analyses. As educational programs become increasingly internationalized, inclusion must be aligned not only with the social model of disability but also with cultural diversity, different languages, sexual orientation and gender expressions, ensuring that data literacy is accessible to all and that diverse perspectives are both respected and reflected in data narratives. Could these challenges and technology advances pave the way toward implementing Universal Design for Learning (UDL)? Does this make it imperative to view statistical education through the lens of AI?

Keywords: Statistics Education · Inclusion and Diversity · Artificial Intelligence (AI)

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