

## **Responsible use of AI for research in applied linguistics: Practical approaches to qualitative and quantitative analysis**

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Artificial intelligence (AI) is reshaping and restructuring not only language teaching and learning, but also how research in applied linguistics is designed, organized, and analyzed (e.g., Quan et al., 2024; Yin & Chapelle, 2025; Zhong et al., 2025). For researchers, AI tools create opportunities for making data analysis more efficient, especially in time consuming tasks such as coding qualitative data, synthesizing studies in meta-analyses, and writing code for statistical analysis. However, the increasing use of AI also raises ethical questions: How reliable are AI-assisted coding methods? How can AI contribute to open science efforts by improving transparency and replicability in research syntheses? And, how can AI be used to extend, but not replace, researcher expertise?

This workshop will introduce participants to practical strategies for integrating AI into applied linguistics research. Using examples from recent empirical studies, we will explore how AI can support qualitative coding, automate the extraction and classification of variables for meta-analysis, and assist with statistical tasks such as regression modeling and data visualization. Participants will leave with concrete examples, prompt suggestions, and a chance to reflect on how AI can be used responsibly and effectively in applied linguistics research.