

Integrating AI and Neuroscience in L2 Literacy Education: Advancing Emotional Literacy and Social Equity through ChatGPT and the Reading for Emotional Model

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Abstract: This keynote presentation demonstrates a Reading for Emotion model, developed by Ania Lian, for the integration of Artificial Intelligence and neuroscience within second language education, specifically focusing on English literacy and the utilisation of ChatGPT, a cutting-edge AI language model developed by OpenAI. We examine how ChatGPT can serve as a social equaliser in L2 learning environments by enhancing the educational experience and offering equitable opportunities for all learners. Drawing on theoretical frameworks and empirical research, the presentation proposes practical strategies for utilising ChatGPT to bridge social gaps and promote inclusivity. We explore the potential of ChatGPT to enhance communication, foster understanding across diverse cultural and social backgrounds, and improve cognitive engagement through tailored educational experiences. Additionally, the implications of AI in reshaping traditional pedagogies to support a more inclusive learning environment are discussed. The keynote aims to contribute to the broader discourse on the role of AI in education, emphasising the need for tools that not only enhance academic performance but also foster social and emotional competencies. By integrating the Reading for Emotion model, we demonstrate how emotional analysis can serve as a process for investigating text structure and the intentional choices authors make to communicate specific ideas. This approach emphasises the cognitive and emotional development necessary for comprehensive language learning, paving the way for more inclusive and socially aware educational practices.

Keywords: *AI; Neuroscience; L2 Literacy Education; Emotional Literacy; ChatGPT*