Special Issue

Memory and Cognition in Bi/Multilingual Minds: Mechanisms, Models, and Developmental Pathways

Message from the Guest Editors

This Special Issue explores how bi/multilingual language experience shapes memory (working/episodic) and cognition (attentional control, neural efficiency) across the lifespan, moving beyond the long-standing "bilingual advantage" debate. It invites interdisciplinary work on mechanisms of language control, cross-linguistic transfer, and memory consolidation—welcoming behavioural, neuroimaging, computational, longitudinal, theoretical, or review studies that illuminate these processes. Over two decades, bilingualism research has shifted from framing multilingualism as a static trait to an experience continuum (interacting with age, proficiency). It links this to neural plasticity, with cutting-edge advances: neuroimaging for bilingual language switching, computational models for lexical transfer, and machine learning for cognitive variability. The Issue aims to integrate fields to clarify memory-cognition interactions in multilingual minds and chart new research directions.

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