

Leadership in Early Childhood Education from a Cultural Adaptation Perspective: An Effective Integration of Distributed and Pedagogical Leadership

Kunning Zhang*

University College London, London E17 6JJ, United Kingdom

**Author to whom correspondence should be addressed.*

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Abstract: This study explores the key elements of effective leadership in early childhood education (ECE) and examines the integration of distributed leadership and pedagogical leadership within different cultural contexts. The findings indicate that while distributed leadership promotes collaboration and teacher empowerment, its implementation can be constrained in cultures with strong hierarchical traditions. In contrast, pedagogical leadership focuses on teaching quality but may limit teacher autonomy. To address this, the study proposes a Culturally Adaptive Integrated Model, where pedagogical leadership establishes a shared educational vision, ensuring alignment in teaching practices, while distributed leadership progressively fosters collaborative decision-making within this framework.

Keywords: Early childhood education; Leadership; Distributed leadership; Pedagogical leadership; Cultural adaptation; Professional learning communities; Professional development

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1. Introduction

Leadership in Early Childhood Education (ECE) is a fundamental driving force for enhancing educational quality, yet its conceptualisation and implementation vary significantly across cultural contexts ^[1]. Traditionally, ECE leadership has often been equated primarily with administrative management ^[2]. However, recent scholarship highlights that effective leadership in ECE not only involves administrative management but also encompasses fostering a collaborative culture, promoting professional development, and ensuring high-quality pedagogy ^[2]. Nonetheless, a singular leadership model often falls short of addressing the complex demands inherent in ECE settings, prompting researchers to explore combinations of diverse leadership theories to enhance institutional efficiency and educational quality.

Distributed leadership and pedagogical leadership are two central frameworks frequently discussed

in Western scholarship on ECE leadership. Distributed leadership emphasizes shared decision-making, empowerment, and collaborative culture among educators ^[3], while pedagogical leadership focuses specifically on instructional quality, professional guidance, and reflective practices through methods such as classroom observations ^[4,5]. Despite their respective strengths, the implementation of these models encounters multiple challenges, particularly in cross-cultural adaptation. For instance, in cultures characterised by hierarchical structures, distributed leadership practices may encounter obstacles such as power centralisation and a lack of leadership identity among teachers ^[6]. Pedagogical leadership, on the other hand, tends to adopt a direct intervention approach focused on instructional quality. However, without sufficient collaborative support structures, this method might inadvertently restrict teacher autonomy and stifle innovation, posing practical limitations not directly attributable to cultural factors ^[5].

Therefore, this study explores the integration of distributed and pedagogical leadership through a culturally adaptive perspective, aiming to construct a leadership model that effectively addresses the complex demands of ECE contexts. Using Chinese ECE institutions as a case study, this paper proposes a “dual-track authority-collaboration framework,” in which strategic decision-making remains centralized with institutional leaders, while teachers are empowered to participate in instructional improvements through structured channels, such as Professional Learning Communities (PLCs) ^[7]. This hybrid leadership model balances cultural continuity with educational innovation, providing theoretical insights and practical guidance not only for Chinese institutions but also for broader international contexts.

2. Effective leadership in ECE

Effective leadership in early childhood education relies on multiple interrelated core elements that collectively create a comprehensive leadership framework suitable for addressing complex educational demands. Firstly, a critical component of effective ECE leadership is the integration of managerial and leadership functions ^[2]. Managerial functions are essential for ensuring organizational stability, encompassing resource allocation, adherence to safety standards, and process optimization ^[8]. In contrast, leadership functions focus primarily on shaping organizational culture, communicating educational vision, and motivating team development ^[8]. Striking a balance between these functions is particularly crucial, as it ensures compliance with routine organizational operations while simultaneously encouraging and inspiring teachers towards innovative and collaborative practices, thus meeting the diverse needs of children and educators ^[9]. Over-reliance on administrative control may result in rigid educational practices that stifle innovation, whereas an excessive emphasis on flexibility can lead to organizational confusion. Consequently, achieving an optimal balance between stability and innovation is foundational to effective ECE leadership.

Moreover, effective ECE leadership should differentiate itself from traditional hierarchical and authority-based management models, emphasizing openness, inclusiveness, and empowerment of educators to stimulate teacher initiative and professional growth ^[10]. Research indicates that ECE leaders serve not only as decision-makers but also as creators of organisational environments. They foster supportive climates characterised by openness and inclusiveness, thereby empowering educators to engage proactively in professional development, ultimately enhancing children’s development ^[8]. This leadership style, characterized by reduced hierarchical structures and reciprocal relationships, is significantly influenced by the predominance of female leaders in the ECE field ^[11]. Female leaders often favor open communication channels, fostering trust and shared responsibilities among teachers. This collective practice ensures leadership is distributed throughout the organization rather

than centralized within individual managers ^[11]. Furthermore, the attributes commonly associated with female leadership, such as sensitivity, social skills, and a profound commitment to children's welfare, align closely with ECE core values ^[8], thereby promoting a leadership approach that is inherently inclusive and collaborative.

Additionally, effective leadership in ECE depends on establishing a shared vision and promoting continuous professional development, both of which ensure long-term strategic direction and high-quality pedagogy ^[2]. A shared vision involves developing a mutual understanding and commitment among educators, parents, and other stakeholders regarding the objectives and methods of children's learning and development ^[12]. Heikkinen *et al.* (2022) ^[12] emphasize that establishing a shared vision enhances collaboration and aligns organizational efforts towards common goals, thereby increasing the effectiveness of leadership practices. Continuous professional development further supports the realization of this shared vision by directly influencing teaching quality and educators' adaptive capabilities ^[2]. Through structured professional learning and reflective practices, leaders ensure educators are equipped to respond effectively to the evolving needs of children and the wider community ^[2]. This ongoing professional learning not only promotes individual educator growth but also reinforces collective commitment to the institution's overarching vision, maintaining organizational vitality and coherence.

3. Necessity of an integrated model: Beyond a single leadership paradigm

Given the complexities of balancing managerial roles, leadership responsibilities, collaborative cultures, shared visions, and professional development in ECE settings, single-model leadership approaches often prove inadequate. Distributed leadership and pedagogical leadership are two prominent paradigms in contemporary ECE leadership research, each offering distinct benefits. However, independently applying either model may not fully satisfy the multifaceted requirements of effective ECE leadership. Consequently, integrating the strengths of both distributed and pedagogical leadership into a cohesive framework becomes essential to achieve a balanced approach that effectively addresses the dynamic needs of early childhood educational institutions.

Distributed leadership emphasizes power-sharing and collective decision-making, offering significant benefits in building participatory management and a collaborative organizational culture ^[5]. By granting educators greater autonomy and leadership roles, distributed leadership can foster educators' sense of ownership and active participation in institutional governance and pedagogical improvement. However, a limitation of distributed leadership is the potential dispersal of managerial responsibility, which can weaken supervision and control over instructional quality ^[13]. Without clear professional guidance and quality control mechanisms, overly decentralized leadership may result in a situation where accountability is diluted, and strategic direction becomes unclear.

In contrast, pedagogical leadership focuses on enhancing instructional quality and supporting teacher professional growth by emphasizing leaders' direct guidance on pedagogical practices ^[14]. This model positions leaders as central figures in driving educational vision, teacher development, and curriculum reform ^[15]. In ECE contexts, particularly, pedagogical leadership ensures that teaching remains consistently child-centered within a collaborative environment ^[15]. Nonetheless, pedagogical leadership can lead to overly centralized decision-making, potentially reducing teachers' autonomy and their sense of active participation ^[6]. When teachers perceive themselves merely as recipients of decisions without sufficient opportunities for autonomy or innovation, the collaborative spirit and teachers' professional initiative may diminish. Therefore, integrating distributed and pedagogical leadership can address these individual limitations, creating a more adaptive and sustainable leadership approach in ECE practice.

Moreover, this integrated leadership model demonstrates both theoretical innovation and practical feasibility. Specifically, Professional Learning Communities (PLCs) exemplify this integrated approach by serving as platforms that foster collaborative culture, support instructional quality, and promote professional growth ^[7]. Within PLCs, leaders facilitate collaborative discussions about teaching practices, combining clear leadership guidance with opportunities for teachers to make decisions collectively ^[7,16]. This approach not only strengthens educators' shared sense of responsibility but also effectively integrates leadership, management, collaboration, and professional development, thereby continuously enhancing educational practices in ECE settings.

Nevertheless, when implementing this integrated model in ECE contexts, it is essential to consider cultural factors carefully. In certain cultural settings, particularly those characterized by decentralized governance, distributed leadership may naturally thrive. However, in cultures with strong hierarchical values, such as in Chinese educational contexts, leadership authority and structured hierarchies remain significant ^[17]. Thus, adapting and refining this integrated model to align with specific cultural characteristics while promoting leadership innovation in ECE remains an important area for further investigation.

4. Cultural adaptation: Optimizing the integrated model in local contexts

Firstly, educators' perceptions of leadership roles and their self-identification as leaders significantly influence leadership effectiveness in ECE contexts. Studies indicate that in China, early childhood educators are often socially perceived primarily as caregivers rather than professional educators or leaders ^[18]. This perception stems from relatively low entry requirements and social recognition in the ECE sector, resulting in many educators primarily adopting roles as implementers rather than leaders ^[6]. Even when teachers have greater decision-making authority within a distributed leadership framework, they may still struggle to actively embrace leadership roles ^[19]. Thus, in the Chinese context, distributed leadership requires systematic professional development initiatives to enhance educators' leadership awareness and self-efficacy, ensuring they can both structurally and psychologically adopt leadership roles effectively.

Secondly, organizational structure and hierarchical cultural norms present significant barriers to the effective application of distributed leadership in ECE settings. Confucian values, which emphasize hierarchical relationships, profoundly influence educational management systems in China ^[17]. Many kindergartens maintain highly centralized authority, with principals or senior administrators holding ultimate decision-making power, while educators predominantly function as implementers ^[6]. Consequently, even when granted some decision-making autonomy, teachers may find it challenging to fully exercise their leadership due to entrenched hierarchical dynamics ^[6], thereby limiting the adaptability and effectiveness of distributed leadership models in this cultural context.

Furthermore, collectivist values exert a dual influence that complicates the implementation of distributed leadership in ECE contexts. Chinese society predominantly adheres to collectivist values, encompassing both vertical collectivism (emphasizing authority and hierarchy) and horizontal collectivism (emphasizing equality and collaboration) ^[20]. In ECE institutions, vertical collectivism is particularly prominent, as evidenced by strong hierarchical constraints imposed by principals and middle-level managers, who must also adhere to directives from higher authorities such as educational bureaus or party committees ^[6]. This structure often results in decision-making authority remaining concentrated among a few leaders, thus limiting the practical application of distributed leadership. Conversely, horizontal collectivism aligns more closely with distributed leadership principles, emphasizing equality, collaboration, and shared decision-making. However, despite strong cooperative

relationships among teachers, power imbalances commonly persist—for instance, head teachers typically have greater decision-making authority than assistant teachers ^[6]. Hence, although collectivist culture can support collaborative leadership to some extent, adapting distributed leadership practices to better align with cultural realities remains crucial.

In this context, introducing pedagogical leadership could support the localization of distributed leadership. Unlike distributed leadership, pedagogical leadership does not rely heavily on decentralized decision-making but instead ensures effectiveness through direct engagement in instructional quality ^[15]. Furthermore, core principles of pedagogical leadership, such as reflective practice, self-improvement, and mentoring relationships, align closely with Confucian ideals of personal cultivation ^[21]. Additionally, Daoist philosophy emphasizes leadership through non-interference and supportive guidance, resonating with the servant-leadership characteristics of pedagogical leadership ^[22]. These cultural compatibilities suggest that, despite challenges faced by distributed leadership in Chinese educational contexts, integrating pedagogical leadership can create a culturally responsive leadership approach. Pedagogical leadership's authoritative dimension can thus facilitate a gradual introduction of distributed leadership practices, such as shared decision-making and teacher empowerment, creating a balanced and complementary leadership model.

In practice, Professional Learning Communities (PLCs) can be culturally adapted to suit local contexts. Within the PLC framework, teachers engage in collaborative decision-making under the guidance of central leaders such as principals or curriculum leaders ^[3]. This approach provides teachers with more opportunities to participate in collaborative decisions while ensuring structured oversight from central leadership, thus avoiding the organizational chaos that might arise from overly decentralized models. This adjustment makes the PLC framework more applicable and effective within the Chinese ECE context.

However, despite its adaptive advantages, this integrated theoretical model still faces numerous practical challenges. Firstly, indigenous research on ECE leadership in China remains at an early stage, with limited empirical studies specifically examining integrated distributed pedagogical leadership models ^[23]. Furthermore, the effectiveness of the integrated model is complicated by the inherent challenges of interdisciplinary collaboration ^[24]. ECE leaders must frequently coordinate with professionals from healthcare, social work, and other disciplines, each with distinct professional logic and decision-making practices. Such differences can result in fragmented leadership and communication barriers ^[24]. Therefore, alongside promoting this integrated leadership model, it is essential to explore strategies that optimize interdisciplinary collaboration, thereby enhancing overall leadership effectiveness in ECE institutions.

5. Conclusion

This paper critically examines the core elements of leadership in Early Childhood Education (ECE) and highlights the necessity of integrating distributed and pedagogical leadership models. Distributed leadership fosters collaboration through shared decision-making and empowerment, while pedagogical leadership ensures instructional quality and professional development. Their integration effectively maintains organizational stability while enhancing leadership flexibility and effectiveness, addressing the complex and dynamic demands of ECE contexts. Nevertheless, the cultural adaptability of this integrated model is crucial. Cultural perceptions regarding power distribution, collaboration methods, and teacher roles can significantly influence how effectively this integrated model is implemented. In hierarchical cultural contexts, pedagogical leadership can provide foundational support to gradually introduce distributed leadership elements such as teacher empowerment

and collaborative decision-making. Conversely, in contexts that emphasize collaboration and autonomy, distributed leadership may naturally play a more prominent role within the integrated model. However, practical implementation challenges remain due to the complexities of interdisciplinary collaboration, policy environments, and professional development for educators. Future research should explore culturally responsive strategies for effectively applying the integrated leadership model, assessing its long-term impact on institutional management, teacher professional growth, and child learning outcomes.

Disclosure statement

The author declares no conflict of interest.

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