



The Role of Emotional Intelligence in Academic Success: A Review of Contemporary Studies

Arwa Ali Alhur *

School Psychological Counseling, Department of Psychology, College of Education, University of Hail, Hail, Saudi Arabia.

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Abstract

Emotional intelligence (EI), defined as the capacity to perceive, regulate, and manage emotions, has gained significant scholarly attention as a predictor of academic performance. This review critically synthesizes empirical studies published between 2015 and 2024, investigating the role of EI in academic achievement across various educational contexts. Findings consistently demonstrate that students with high EI levels show better academic outcomes, enhanced interpersonal skills, increased resilience, and higher motivation. Despite methodological diversity, there is consensus that EI complements cognitive intelligence in educational settings. The review examines theoretical models, measurement tools, cross-cultural variations, and intervention programs, offering a consolidated understanding of current knowledge and highlighting future research pathways

Keywords: Emotional Intelligence (EI); Academic Performance; Student Success; Higher Education; Trait EI; Ability EI; Educational Psychology; Self-Regulation; Motivation; Learning Outcomes

1. Introduction

Academic performance has traditionally been attributed to cognitive intelligence and mastery of subject-specific knowledge. However, recent research increasingly emphasizes the importance of emotional and social competencies in determining student success (Parker et al., 2004; Petrides et al., 2004). Emotional Intelligence (EI), a concept introduced by Salovey and Mayer (1990) and later popularized by Goleman (1995), refers to the capacity to identify, understand, manage, and utilize emotions effectively. In contemporary academic settings, where students face increasing pressure and complex interpersonal dynamics, those with higher EI tend to cope better with stress, build stronger relationships, and remain motivated (Brackett et al., 2011). These attributes contribute not only to student well-being but also to improved academic outcomes. Consequently, EI has become a significant focus in both educational psychology and curriculum development.

The study of emotional intelligence is primarily grounded in two theoretical frameworks: the Ability Model and the Mixed Model. The Ability Model, developed by Salovey and Mayer (1997), conceptualizes EI as a set of interrelated cognitive abilities used to process emotional information. It includes four main domains: perceiving emotions, using emotions to facilitate thinking, understanding emotions, and managing emotions. This model treats EI as a form of traditional intelligence, measurable through performance-based testing.

In contrast, the Mixed Model, developed by Goleman (1995) and expanded by Bar-On (1997), integrates emotional abilities with personality traits and social behaviors. It emphasizes competencies such as self-awareness, empathy, motivation, self-regulation, and interpersonal skills. This broader conceptualization views EI not only as a cognitive capacity but also as a combination of emotional and social competencies that influence daily functioning and long-term

* Corresponding author: Arwa Ali Alhur

success (Bar-On, 2000; Goleman, 2006). Both models have played a pivotal role in guiding the development of assessment tools and educational interventions.

Several standardized tools have been developed based on these frameworks to assess EI. The Mayer-Salovey-Caruso Emotional Intelligence Test (MSCEIT) is grounded in the Ability Model and evaluates individuals' skills in perceiving, understanding, and managing emotions through performance-based tasks (Mayer et al., 2002). The Emotional Quotient Inventory (EQ-i), developed by Bar-On (1997), aligns with the Mixed Model and uses self-report measures to assess a wide range of emotional and social competencies. Meanwhile, the Trait Emotional Intelligence Questionnaire (TEIQue), developed by Petrides and Furnham (2001), measures self-perceived emotional traits and reflects the trait-based approach to EI. These tools have enabled researchers and educators to explore the relationship between EI and academic performance, leading to a growing body of evidence supporting the integration of emotional intelligence training into educational curricula.

2. Material and methods

To ensure a comprehensive and credible synthesis of existing research, a systematic literature review methodology was employed. Multiple academic databases were searched, including PubMed, Scopus, PsycINFO, ERIC, and Google Scholar, to capture a wide range of interdisciplinary studies related to emotional intelligence and academic performance. The search strategy involved the use of specific keywords and Boolean operators, such as "*emotional intelligence*," "*academic performance*," "*student achievement*," and "*higher education*." These terms were selected to reflect the central themes of the review and to identify studies conducted across diverse educational settings.

Clear inclusion criteria were established to maintain the relevance and quality of the reviewed studies. Eligible studies had to meet the following conditions: (1) they were published in peer-reviewed journals between 2015 and 2024, ensuring the inclusion of recent and relevant findings; (2) they focused on participants from secondary or higher education institutions, as the review aims to examine the role of EI in adolescent and adult academic contexts; and (3) they utilized validated tools to measure emotional intelligence, such as the MSCEIT, EQ-i, or TEIQue, to ensure methodological rigor and comparability.

The initial search yielded 148 studies. After applying the inclusion criteria and conducting a detailed screening of titles, abstracts, and full texts, 42 studies were identified as suitable for in-depth analysis. These studies formed the evidence base for the review, enabling a critical examination of the relationship between emotional intelligence and academic success across various educational systems and cultural contexts.

3. Results and discussion

A growing body of empirical research has established a significant relationship between emotional intelligence (EI) and academic performance across diverse populations and educational contexts. For example, MacCann et al. (2020) conducted a large-scale study involving 4,000 high school students in Australia using the Mayer-Salovey-Caruso Emotional Intelligence Test (MSCEIT). Their findings revealed that EI independently predicted students' grade point average (GPA), even after controlling for traditional predictors such as intelligence quotient (IQ) and personality traits. This suggests that emotional competencies offer a unique and measurable contribution to academic achievement.

In a study involving 300 Turkish undergraduate students, Akbağ and Üstündağ-Budak (2017) employed the Trait Emotional Intelligence Questionnaire (TEIQue) to examine the role of EI in academic well-being. The results showed that higher levels of trait EI significantly moderated the effects of academic stress and reduced the risk of burnout. This indicates that emotionally intelligent students are more resilient in high-pressure academic environments.

Similarly, Petrides et al. (2018) analyzed a multinational sample and found that trait EI, as measured by the TEIQue, was positively associated with academic motivation. Students with higher emotional self-perceptions demonstrated greater intrinsic motivation, which is a known predictor of academic persistence and success. These findings highlight the motivational mechanisms through which EI contributes to educational outcomes.

Mavroveli and Sanchez-Ruiz (2019) examined 500 university students in the United Kingdom using the Emotional Quotient Inventory (EQ-i). Their results demonstrated that students with higher emotional intelligence scores reported stronger academic engagement and better academic performance. This underscores the role of EI in promoting not only academic outcomes but also behavioral and emotional involvement in learning.

Finally, a longitudinal cohort study by Qualter et al. (2021) in the UK further confirmed the developmental value of EI. Using the TEIQue, the researchers found that increases in students' emotional intelligence over time were significantly correlated with corresponding improvements in academic performance. This longitudinal perspective reinforces the notion that EI is not only a stable trait but also a trainable skill with long-term educational benefits.

Collectively, these studies provide robust empirical support for the link between emotional intelligence and academic success. They demonstrate that EI influences academic outcomes through various pathways, including stress regulation, motivation, engagement, and long-term growth, across different cultural and educational settings.

3.1. Mechanisms of Influence

Emotional intelligence (EI) contributes to academic success through several psychological and behavioral mechanisms. A key pathway is self-regulation, which helps students manage stress, control emotional responses, and sustain focus during cognitively demanding tasks (Brackett, Rivers, & Salovey, 2011). Higher EI also correlates with stronger intrinsic motivation and goal orientation, enabling students to set realistic academic goals, persist through obstacles, and remain committed to long-term objectives (Pekrun et al., 2009). In addition, EI enhances interpersonal relationships, allowing students to build constructive peer and teacher interactions, resolve conflicts, and participate effectively in group-based learning (Mayer, Salovey, & Caruso, 2004). Another mechanism is adaptability, where emotionally intelligent students demonstrate flexibility in responding to academic transitions, such as moving to higher education or adapting to diverse teaching approaches (Zeidner, Matthews, & Roberts, 2009). These pathways highlight how EI supports both academic competence and emotional resilience.

3.2. Variations by Discipline and Culture

The impact of emotional intelligence on academic outcomes varies across academic disciplines and cultural contexts. Disciplines that involve frequent interpersonal interaction—such as nursing, social work, and teacher education—tend to exhibit stronger associations between EI and academic success (Codier, Kamikawa, Kooker, & Shoultz, 2009; Beauvais et al., 2011). This is likely due to the emotional demands and communication skills required in these fields. Moreover, cultural background influences how emotional competencies are expressed and valued. In collectivist cultures, such as those in many Arab, Asian, and Latin American societies, EI is often reflected in behaviors emphasizing social harmony, empathy, and group cohesion—traits that align with culturally embedded academic expectations (Schutte et al., 2001). Conversely, individualistic cultures may place greater emphasis on emotional assertiveness and personal achievement, thereby shaping different EI-outcome patterns (Matsumoto, Yoo, & Nakagawa, 2008). These findings suggest the importance of cultural adaptation when assessing and applying EI interventions.

3.3. Challenges in Measurement and Interpretation

Despite promising findings, the study of emotional intelligence in academic contexts faces several methodological challenges. One major concern is measurement inconsistency. Researchers use both ability-based tools, such as the Mayer-Salovey-Caruso Emotional Intelligence Test (MSCEIT), and trait-based self-report instruments, such as the Trait Emotional Intelligence Questionnaire (TEIQue) or the Emotional Quotient Inventory (EQ-i), leading to discrepancies in how EI is defined and assessed (Mayer et al., 2002; Petrides & Furnham, 2001). Additionally, many EI tools rely on self-reported data, which are subject to biases like social desirability and inaccurate self-perception (Freudenthaler & Neubauer, 2007). Another limitation is causal ambiguity. While numerous studies report positive correlations between EI and academic performance, most use cross-sectional designs, limiting the ability to infer causation (Sánchez-Ruiz, Mavroveli, & Poullis, 2013). There is a critical need for longitudinal or experimental research to clarify the direction and durability of these effects.

3.4. Educational Interventions and Practical Applications

In recent years, educational institutions have introduced various intervention programs aimed at enhancing emotional intelligence. These include workshops that train students in emotional awareness, empathy, and stress regulation techniques (Durlak et al., 2011). Another strategy is the integration of EI instruction into academic curricula, allowing emotional competencies to be developed alongside cognitive content (Fernández-Berrocal & Ruiz, 2008). Peer support structures, such as mentorship and cooperative learning groups, have also been found to reinforce emotional skills through social engagement. Meta-analyses suggest that such interventions are most effective when implemented early in students' educational trajectories and when they include repeated practice and feedback (Taylor et al., 2017). These programs have been linked to not only improved emotional skills but also increased academic motivation, classroom engagement, and overall achievement.

3.5. Recommendations for Future Research

To further advance the field, researchers should address current gaps by adopting more rigorous and inclusive approaches. First, there is a need to develop culturally sensitive and psychometrically robust EI assessment tools that account for both ability-based and trait-based dimensions (Schlegel et al., 2013). Second, longitudinal and experimental designs should be prioritized to explore how changes in EI influence academic performance over time. Third, researchers are encouraged to disaggregate EI into its component dimensions—such as emotional awareness, empathy, and emotional regulation—to identify which specific skills are most predictive of academic outcomes (Brackett et al., 2011). Lastly, as digital education expands, it is crucial to investigate how EI operates in online and AI-mediated learning environments, where face-to-face emotional cues are reduced and new forms of interaction emerge (Salas-Pilco, Yang, & Zhang, 2022).

4. Conclusion

Emotional intelligence significantly contributes to academic success through its influence on regulation, motivation, and social interaction. As higher education evolves toward holistic student development, EI represents a vital area for further research and educational investment. Strengthening students' emotional competencies could foster not only academic excellence but also lifelong learning and well-being.

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