

Error Correction Techniques in University-Level English Language Teaching: A Review of Strategies and Pedagogical Implications

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تقنيات تصحيح الأخطاء في تدريس اللغة الإنجليزية بالمستوى الجامعي: مراجعة لاستراتيجيات والآثار التربوية

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Abstract

This review discusses error correction techniques in English Language Teaching (ELT), focusing on their effectiveness, implementation, and pedagogical implications. Drawing on both theoretical frameworks and empirical studies, the review explores various strategies such as direct and indirect correction, oral and written feedback, self- and peer-correction, and immediate versus delayed feedback. Evidence suggests that while error correction improves learner accuracy, its effectiveness depends on contextual factors including learner proficiency, task type, and the classroom environment. The review highlights best practices for educators to balance accuracy and fluency, tailoring feedback to learners' needs. Finally, implications for university-level ELT and future research directions are discussed.

Keywords: Error correction, feedback strategies, English Language Teaching (ELT), learner accuracy, fluency, pedagogical implications.

الملخص

تتناول هذه المراجعة تقنيات تصحيح الأخطاء في تدريس اللغة الإنجليزية (ELT)، مع التركيز على فعاليتها، وتطبيقاتها، وأثارها التربوية. وبالاستناد إلى كل من الأطر النظرية والدراسات التجريبية، تستكشف المراجعة استراتيجيات متنوعة مثل التصحيح المباشر وغير المباشر، والتغذية الراجعة الشفهية والكتابية، والتصحيح الذاتي وتصحيح الأقران، بالإضافة إلى التغذية الراجعة الفورية مقابل الموجلة. وتشير الأدلة إلى أنه في حين أن تصحيح الأخطاء يحسن دقة المتعلم، فإن فعاليته تعتمد على عوامل سياقية تشمل كفاءة المتعلم، ونوع المهمة، والبيئة الصفية. كما تسلط المراجعة الضوء على أفضل

الممارسات للمعلمين لتحقيق التوازن بين الدقة والطلقة، وتنكيف التغذية الراجعة وفقاً لاحتياجات المتعلمين. وأخيراً، تم مناقشة الآثار المترتبة على تدريس اللغة الإنجليزية على المستوى الجامعي واتجاهات البحث المستقبلي .

الكلمات المفتاحية: تصحيح الأخطاء، استراتيجيات التغذية الراجعة، تدريس اللغة الإنجليزية، دقة المتعلم، الطلقة، الآثار التربوية.

Introduction

Error correction, academically referred to as corrective feedback, stands as a fundamental pillar in English Language Teaching (ELT), serving as a critical mechanism that helps learners bridge the gap between their current interlanguage and the target language norms. In contemporary second language acquisition (SLA) research, errors are no longer perceived as mere linguistic failures but as essential developmental markers that signify the learner's cognitive progress. Despite its pedagogical necessity, the role and implementation of error correction have been subjects of intense academic debate.

The controversy primarily revolves around the balance between accuracy and fluency. While proponents of explicit correction argue it is vital to prevent the "fossilization" of incorrect linguistic forms, critics caution that excessive intervention may stifle learner motivation and impede communicative flow. This balance is particularly crucial in university-level ELT settings, where students are expected to achieve high levels of both grammatical precision and communicative competence. This review aims to synthesize the existing literature on error correction strategies, evaluating their effectiveness across different contexts and providing evidence-based recommendations for higher education practitioners.

Problem Statement

Despite the recognized importance of corrective feedback, there is a lack of consensus among researchers regarding its optimal timing, frequency, and degree of explicitness. This uncertainty creates a significant challenge for university instructors who must decide whether to interrupt a student to correct a spoken error or provide detailed written feedback on an essay. The core problem lies in the potential trade-off: over-correction may lead to high anxiety and reduced participation, whereas under-correction may allow linguistic inaccuracies to become permanent habits.

Significance of the Study

This review is significant as it consolidates diverse theoretical and empirical perspectives, bridging the gap between abstract research and actual classroom practice. For university-level instructors, this synthesis offers actionable insights into how feedback can be tailored to meet the specific needs of adult learners, thereby enhancing language development and informing future pedagogical research.

Literature Review

Corrective feedback (CF), defined as responses to learners' linguistic errors with the aim of promoting language development, has long occupied a central position in second language

acquisition (SLA) research and English as a Foreign Language (EFL) pedagogy. Over the past five decades, scholars have debated the effectiveness, optimal forms, and pedagogical implications of both oral and written corrective feedback. The body of literature represented in the provided bibliography reflects diverse theoretical orientations, methodological approaches, and educational contexts, yet collectively underscores the complexity of CF as a multifaceted instructional tool.

Theoretical Foundations of Corrective Feedback

The conceptual roots of corrective feedback are embedded in foundational SLA theories. Selinker's (1972) Interlanguage Theory positions learner language as a dynamic system evolving toward the target language, where errors are developmental rather than merely deficient. Corrective feedback, therefore, functions as a mechanism for restructuring interlanguage. Similarly, Schmidt's (1990) Noticing Hypothesis argues that conscious awareness of linguistic discrepancies is a prerequisite for acquisition; feedback helps learners "notice the gap" between their production and target forms. These frameworks justify pedagogical intervention by suggesting that feedback facilitates cognitive processing essential for language learning.

Interactionist perspectives further emphasize the role of feedback in negotiated meaning during communicative interaction. Lyster and Ranta (1997) demonstrated that different feedback types—such as recasts, elicitation, and clarification requests—vary in their effectiveness in prompting learner uptake. Their findings, reinforced by Panova and Lyster (2002), highlight that feedback triggering active learner participation leads to deeper processing and improved retention. These studies shifted attention from teacher behavior alone to the interactive dynamics between teacher and learner.

Written Corrective Feedback

Written corrective feedback (WCF) has received substantial scholarly attention, particularly in academic writing contexts. Bitchener and Ferris (2012) provide a comprehensive synthesis of research demonstrating that focused written feedback can improve grammatical accuracy over time, especially when accompanied by metalinguistic explanations. Ellis (2009) further systematized WCF by proposing a typology that distinguishes between direct versus indirect and focused versus unfocused feedback, enabling more precise pedagogical applications.

Empirical studies support the efficacy of WCF under certain conditions. Sheen (2007) found that focused feedback on specific grammatical features, such as article usage, significantly enhanced learners' acquisition, particularly among lower-proficiency students. Hussein (2014) compared teacher-led, guided, and self-correction methods, concluding that guided correction—where learners actively engage in revising errors with structured support—yielded the greatest improvements in writing accuracy. These findings suggest that learner engagement, rather than feedback alone, is crucial.

However, the effectiveness of WCF remains contested. Truscott (1999) famously argued that grammar correction in writing is ineffective and potentially harmful, claiming that it may discourage learners from attempting complex structures. This critique sparked extensive debate

and prompted subsequent studies to refine methodologies and identify conditions under which feedback is beneficial.

Technological innovations have also influenced WCF research. Gaskell and Cobb (2004) explored concordance-based feedback, demonstrating that corpus tools can help learners independently analyze authentic language patterns. Such approaches align with learner-centered pedagogies that emphasize autonomy and data-driven learning.

Oral Corrective Feedback

Oral corrective feedback (OCF) is particularly salient in communicative classrooms where real-time interaction occurs. Aljohani (2020) investigated teacher cognition and classroom practices regarding OCF, revealing discrepancies between teachers' beliefs and their actual feedback behavior. While instructors often endorse communicative approaches, they frequently resort to explicit correction, especially when accuracy is prioritized.

Research on OCF effectiveness indicates that timing and explicitness matter. Immediate correction can prevent fossilization of errors but may disrupt communication or increase anxiety. Alqahtani (2022) found that appropriately delivered feedback can reduce language anxiety among university students, suggesting that affective factors mediate learning outcomes. This aligns with broader educational psychology research emphasizing the importance of supportive classroom environments.

Lyster and Ranta's (1997) taxonomy of feedback moves remains influential in OCF research. Their work showed that prompts encouraging self-repair (e.g., elicitation) are more likely to result in learner uptake than recasts, which learners may perceive as mere confirmation rather than correction. Panova and Lyster (2002) extended these findings to adult ESL contexts, demonstrating that feedback patterns vary across proficiency levels and instructional settings.

Learner Perceptions and Preferences

Understanding learners' attitudes toward corrective feedback is essential for effective pedagogy. Indrawati (2016) examined university students' preferences for WCF, finding that learners generally value detailed feedback but differ in their tolerance for direct correction. Zheng (2016) reviewed multiple studies on learner perceptions, concluding that preferences are shaped by cultural background, proficiency level, and prior educational experiences.

These perception studies highlight a critical pedagogical consideration: feedback is not merely a cognitive intervention but also a social and emotional one. Learners who perceive feedback as supportive are more likely to engage with it constructively, whereas those who view it as punitive may disengage.

Contextual and Individual Factors

A recurring theme across the literature is the context-dependent nature of corrective feedback. Variables such as learner proficiency, task type, classroom climate, and educational level significantly influence outcomes. University-level learners, for example, often require feedback that balances accuracy with the development of advanced communicative competence.

The review article "Error Correction Techniques in University-Level English Language Teaching" synthesizes these considerations, emphasizing that no single feedback strategy is

universally effective. Instead, optimal practice involves adapting feedback type, timing, and explicitness to learners' needs and instructional goals. The article notes that while correction improves accuracy, excessive intervention may hinder fluency and motivation, particularly in higher education contexts where students are expected to demonstrate both precision and autonomy.

Research Gap

Despite extensive research, several gaps remain evident. First, much of the empirical work focuses on either written or oral feedback in isolation, with limited studies examining their combined or integrated use within authentic classroom practices. Second, many studies rely on short-term measures of accuracy, leaving the long-term effects of feedback on language development underexplored.

Third, learner-centered perspectives, though increasingly prominent, often emphasize perceptions rather than observable learning outcomes. There is a need for research linking attitudes toward feedback with measurable proficiency gains. Fourth, contextual diversity remains insufficiently represented. Much of the literature originates from Western or East Asian educational settings, with comparatively little research conducted in Middle Eastern or North African EFL contexts, particularly at the university level.

Additionally, emerging digital learning environments present new challenges and opportunities. While some studies address technology-mediated feedback, comprehensive investigations into online, hybrid, or AI-assisted feedback systems are still limited. As higher education increasingly incorporates digital tools, understanding how these modalities interact with traditional feedback practices is crucial.

Finally, there is ongoing debate regarding the optimal balance between accuracy and fluency. While proponents argue that corrective feedback prevents fossilization, critics caution against overcorrection. Empirical evidence capable of reconciling these perspectives remains inconclusive.

The literature demonstrates that corrective feedback is a complex, multidimensional construct influenced by theoretical, pedagogical, cognitive, and affective factors. While substantial evidence supports its role in promoting language accuracy, effectiveness depends heavily on implementation conditions. The field has progressed from viewing errors as deficiencies to recognizing them as developmental opportunities, yet consensus on best practices remains elusive.

Future research should adopt longitudinal, context-sensitive designs that integrate cognitive, social, and technological dimensions of feedback. Studies focusing on underrepresented regions and authentic classroom settings will be particularly valuable. By addressing these gaps, researchers can move toward a more comprehensive understanding of how corrective feedback can best support second language development in diverse educational contexts.

Theoretical Foundations of Error Correction

The pedagogical justification for error correction is rooted in several complementary linguistic and cognitive frameworks.

- **Interlanguage Theory:** Proposed by Selinker (1972), this theory views learner language as a dynamic and rule-governed system that evolves toward the target language. Within this framework, feedback is seen as a tool for "interlanguage restructuring" rather than simple remediation.
- **The Noticing Hypothesis:** Schmidt (1990) posits that conscious awareness is a prerequisite for language acquisition. Learners must "notice" the mismatch between their own output and the correct target form, a process that corrective feedback directly facilitates.
- **Interactionist Perspectives:** Long (1996) emphasizes that acquisition is enhanced through the negotiation of meaning during interaction. Moves such as recasts and elicitation provide learners with the cognitive "push" needed to modify their output and process input more deeply.
- **Cognitive Perspectives:** From a cognitive load standpoint, the effectiveness of correction is constrained by a learner's working memory and attentional capacity. Therefore, feedback must be focused and context-sensitive to avoid overwhelming the learner.

Types of Error Correction Strategies

Corrective feedback strategies are multifaceted and can be categorized based on their explicitness, the medium used, and the source of the correction. In a university setting, the choice of strategy often dictates the cognitive load placed on the learner.

Direct and Indirect Feedback

- **Direct Correction:** This involves the instructor providing the precise correct form to the student. While it offers immediate clarity and reduces ambiguity, especially for complex grammatical errors, some scholars argue it may limit the learner's opportunity for "hypothesis testing".
- **Indirect Correction:** Here, the teacher indicates that an error has occurred (e.g., through underlining or using a code) but requires the student to identify and fix it. This method is highly valued in higher education as it encourages self-repair and deeper cognitive processing, leading to better long-term retention.

Oral and Written Feedback

- **Oral Feedback:** Often delivered through recasts, clarification requests, or explicit correction during spoken tasks. While it allows for real-time adjustment, instructors must be cautious not to disrupt the "communicative flow" or increase learner anxiety.

- **Written Feedback:** This is typically more formal and focused. Evidence suggests that written corrective feedback, particularly when accompanied by metalinguistic explanations, results in more sustained accuracy gains compared to oral feedback alone.

Self- and Peer-Correction Modern pedagogical trends emphasize shifting the corrective burden from the teacher to the learner.

- **Self-Correction:** This promotes learner autonomy and metacognitive development. However, its success is contingent upon the student having sufficient linguistic awareness to recognize the error.
- **Peer-Correction:** This fosters a collaborative learning environment. Despite its benefits, it must be managed carefully to avoid issues related to feedback reliability and social dynamics within the classroom.

Contextual Factors Influencing Effectiveness

The success of any correction technique is not universal but is highly dependent on various situational variables.

- **Learner Proficiency:** Beginners often require more explicit and direct feedback to build their foundational knowledge. In contrast, advanced university students benefit more from indirect or metalinguistic feedback that challenges their existing cognitive structures.
- **Error Gravity:** Not all errors are equal. Errors that block communication (global errors) usually warrant immediate attention, while minor slips (local errors) might be tolerated to maintain interactional fluency.
- **Classroom Climate:** A supportive, low-anxiety environment is essential. When students view errors as a natural part of the learning process rather than a failure, they are more likely to engage with and benefit from feedback.

Empirical Evidence: The Great Debate

The academic world remains divided on the long-term impact of error correction.

- **The Pro-Feedback Camp:** Researchers like Lyster and Ranta (1997) and Bitchener and Ferris (2012) have demonstrated that focused feedback, particularly when it encourages active learner engagement, leads to measurable improvements in grammatical accuracy.
- **The Skeptical Camp:** On the other hand, Truscott (1999) famously argued that grammar correction in writing is largely ineffective and may even be counterproductive by causing students to avoid complex structures to minimize errors.

Best Practices for University Educators

Building on the synthesized literature, university-level instructors can optimize their feedback by adopting the following principled approaches:

- **Prioritize Selective Correction:** Rather than correcting every error—which can lead to cognitive overload and demoralization—teachers should focus on "global errors" that impede comprehension or specific structures currently being studied in the curriculum.
- **Balance Direct and Indirect Methods:** For complex grammatical structures where students lack prior knowledge, direct feedback is efficient. However, for "slips" or errors in known rules, indirect feedback (elicitation or metalinguistic clues) should be used to promote self-repair and long-term retention.
- **Implement "Delayed" Feedback for Fluency Tasks:** During communicative activities, immediate correction can break the flow of speech. Teachers should take notes and provide a dedicated feedback session at the end of the activity to maintain the balance between accuracy and fluency.
- **Utilize Technology-Assisted Feedback:** In the digital age, tools such as corpus-based feedback or digital annotation can provide learners with rich linguistic examples, helping them understand errors in a broader context (Gaskell & Cobb, 2004).
- **Empower Learner Agency:** Training students in self-editing and peer-review techniques not only reduces the teacher's burden but also develops the metacognitive skills necessary for academic success at the university level.

Recommendations

Based on the reviewed literature on corrective feedback (CF) in second language learning and English as a Foreign Language (EFL) contexts, several directions for future research emerge. Although existing studies have provided valuable insights into the effectiveness, types, and perceptions of corrective feedback, significant gaps remain regarding long-term outcomes, contextual variability, learner differences, and technological integration. The following recommendations aim to guide future investigations toward a more comprehensive and practically relevant understanding of corrective feedback in language education.

1. Conduct Longitudinal Studies on Sustained Learning Outcomes

Most empirical studies measure the immediate or short-term effects of corrective feedback on accuracy. Future research should adopt longitudinal designs to examine whether improvements persist over months or years. Such studies would clarify whether feedback leads to durable restructuring of learners' interlanguage or merely temporary performance gains. Long-term tracking is particularly important in university settings, where students' language development unfolds across extended academic programs.

2. Investigate the Combined Effects of Oral and Written Feedback

Existing research often treats oral corrective feedback (OCF) and written corrective feedback (WCF) as separate domains. However, real classroom practice typically involves both. Future studies should examine integrated feedback approaches to determine how oral and written corrections interact, reinforce each other, or produce differential outcomes across skills. This is especially relevant for academic EFL programs where speaking and writing competencies develop simultaneously.

3. Explore Context-Specific Pedagogical Models

Corrective feedback effectiveness is highly context-dependent. More research is needed in underrepresented regions, particularly Middle Eastern and North African EFL contexts, where

cultural norms, educational traditions, and classroom dynamics may influence learner responses. University-level settings in these regions remain insufficiently studied despite growing demand for English proficiency. Context-sensitive research would help develop locally appropriate pedagogical frameworks rather than relying solely on models derived from Western contexts.

4. Examine the Role of Individual Differences

Future studies should systematically investigate how learner variables affect feedback effectiveness, including:

- Language proficiency level
- Motivation and anxiety
- Cognitive style and learning strategies
- Age and prior educational background
- Self-efficacy and autonomy

Research suggests that advanced learners benefit from indirect feedback that promotes self-repair, while beginners may require explicit correction. However, empirical evidence comparing these groups under controlled conditions remains limited.

5. Investigate Affective and Psychological Dimensions

Corrective feedback is not purely cognitive; it also influences learners' emotions. More research is needed on how feedback affects anxiety, confidence, motivation, and willingness to communicate. Studies such as Alqahtani (2022) indicate that well-delivered feedback can reduce language anxiety, but the mechanisms underlying this effect remain unclear. Future research should integrate SLA with educational psychology to examine emotional responses to correction.

6. Compare Direct, Indirect, and Metalinguistic Feedback

Although typologies of feedback exist, comparative studies that rigorously test different feedback types under similar conditions are still needed. Research should determine which forms are most effective for specific linguistic targets (e.g., grammar, vocabulary, discourse features) and learning stages. Special attention should be given to metalinguistic feedback, which may foster deeper understanding but also impose greater cognitive demands.

7. Investigate Self- and Peer-Correction Strategies

Modern pedagogical approaches emphasize learner autonomy. Future research should evaluate the effectiveness of self-correction and peer feedback compared with teacher-led correction. Questions remain regarding reliability, accuracy, and social dynamics in peer correction, particularly in cultures where students may hesitate to critique classmates. Studies should also explore training interventions that enhance learners' ability to provide constructive feedback.

8. Examine Technology-Mediated Feedback

Digital learning environments are transforming language education. Future research should investigate:

- Automated feedback systems and AI-based writing tools
- Corpus-based and concordance feedback
- Online collaborative platforms
- Hybrid and fully online EFL instruction

Understanding how technology influences feedback quality, learner engagement, and autonomy is essential for contemporary higher education. The reviewed literature indicates that technology-assisted feedback can provide rich linguistic input, but its pedagogical effectiveness requires further empirical validation.

9. Investigate the Optimal Timing and Frequency of Feedback

Debate continues regarding immediate versus delayed correction. Future research should explore how timing interacts with task type, learning objectives, and proficiency level. For example, immediate feedback may benefit accuracy-focused activities, whereas delayed feedback may preserve communicative flow during fluency tasks. Experimental designs comparing different timing strategies would provide practical guidance for instructors.

10. Focus on Meaningful Communicative Outcomes

Many studies evaluate feedback primarily in terms of grammatical accuracy. Future research should broaden outcome measures to include communicative competence, discourse quality, and task performance. Language learning involves more than error reduction; it requires the ability to convey meaning effectively in real contexts.

11. Integrate Teacher Cognition and Classroom Practice

Research should continue examining how teachers' beliefs about corrective feedback align with their actual classroom behavior. Discrepancies between theory and practice may limit the effectiveness of pedagogical innovations. Observational studies, teacher interviews, and professional development interventions could illuminate how instructional decisions are made in real time.

12. Develop Evidence-Based Pedagogical Guidelines for Higher Education

University instructors face unique challenges, including large class sizes, diverse proficiency levels, and academic writing demands. Future research should aim to produce clear, evidence-based recommendations tailored to tertiary education, helping instructors balance accuracy, fluency, and learner autonomy.

Conclusion

The role of error correction in English Language Teaching remains a complex yet indispensable element of effective pedagogy. This review has demonstrated that while there is no "one-size-fits-all" approach, the effectiveness of corrective feedback is significantly enhanced when it is adaptive, context-sensitive, and theoretically grounded. In the university context, the transition from being a "corrector" to a "facilitator of accuracy" is vital. Instructors must navigate the interplay between learner proficiency, task type, and the emotional climate of the classroom. Ultimately, error correction should be viewed not as a tool for highlighting failure, but as a supportive bridge that guides learners toward linguistic precision and communicative confidence. Future research should continue to explore the long-term cognitive impacts of digital feedback and the specific needs of diverse EFL populations in higher education.

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Compliance with ethical standards**Disclosure of conflict of interest**

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