

LEVERAGING GENERATIVE AI TOOLS IN EAP

A CASE STUDY IN ASSESSMENT DESIGN AND AUTOMATED FEEDBACK
FOR EAP WRITING

Mengqi Hu (胡梦琦) Rui Xu (徐蕊)

EAP Language Lecturer

English Language Centre, School of Languages



Xi'an Jiaotong-Liverpool University

西交利物浦大学

19 May 2025

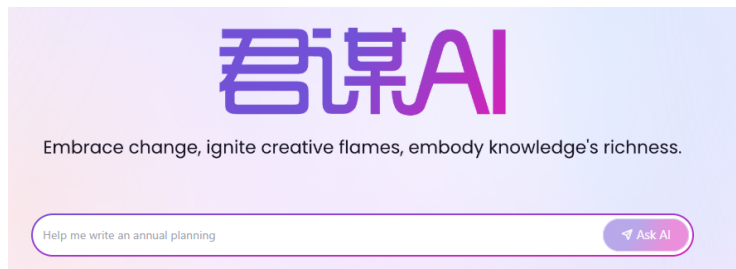
OUTLINE

- Introduction
- Hypothesis
- Key Concept
- Approach
- Results
- Implications
- Exploration
- Conclusion
- Q&A



INTRODUCTION

- English Language Centre, School of Languages
 - EMI
 - Global Citizen
 - XJTLU AI



INTRODUCTION

- EAP writing coursework assessment design
- Written feedback

English Language and Study Skills for Business: EAP105 2024-2025, Year 2, Semester 2 - Project Writing Component First Draft Feedback Checklist

Name (Class):

Core Task Requirements		Yes	No
1. Your Business Evaluation Report is appropriate for the Project WCW task. This includes:			
a. Make a business proposal		<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Evaluate the business proposal using one (1) of the three (3) business analysis models studied in semester 2 (PESTEL, SWOT, or Porter's Five Forces)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Your essay includes all relevant sections.			
a. Executive Summary		<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Background/Introduction		<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Business Proposal		<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Analysis		<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Recommendations		<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Conclusion		<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. Reference List/References		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Word count: 1300 words (+/- 10%, not including Title, Executive Summary, <u>reference list</u>).		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. You use a minimum of six (6) sources published in English, at least four (4) of which must be academic		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Academic Integrity		Yes	No
5. There is a potential AI-A penalty for minor errors in in-text citations and/or the reference list.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. There is a potential AI-B penalty for poor academic practice (e.g. missing citations or references, inability to match citations and references, inability to locate sources using the DOI/URL or other means, minor collusion, or minor self-plagiarism).		<input type="checkbox"/>	<input type="checkbox"/>
7. There is a potential AI-C penalty for plagiarism and/or collusion (e.g. frequently missing citations or references, major collusion, or major self-plagiarism).		<input type="checkbox"/>	<input type="checkbox"/>
Five Priority items to address to improve your 1 st draft			



INTRODUCTION

- SURF project:
Artificial intelligence tools are claimed to be powerful study tools. It will be interesting to see how language learners evaluate AI tools' generated feedback on their English writing practices.

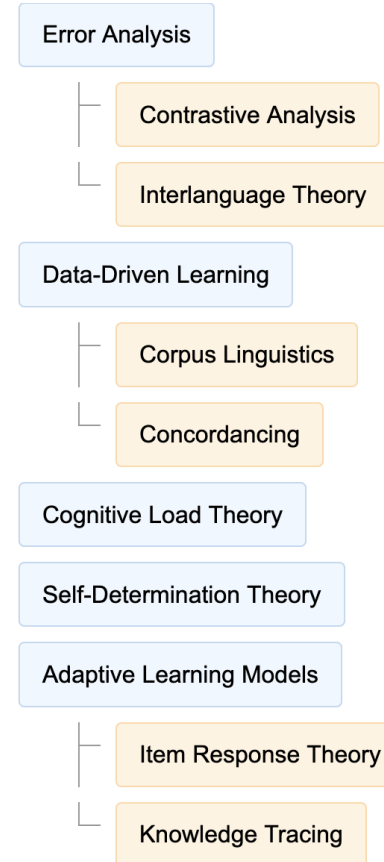
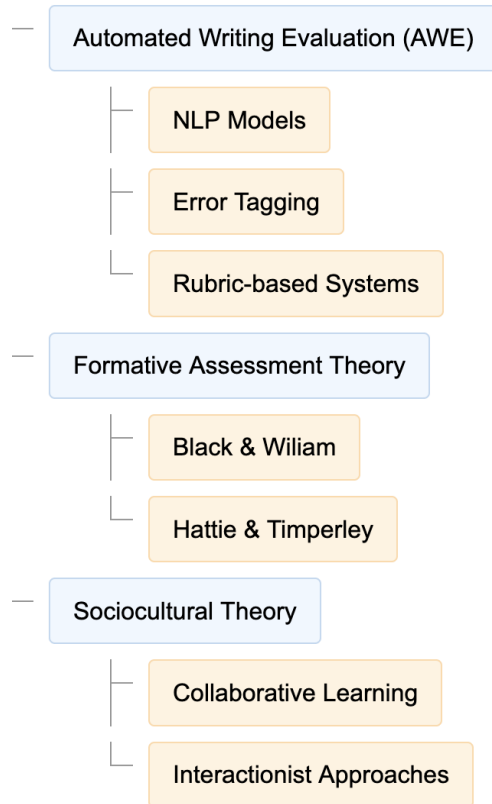


HYPOTHESIS

- The acceptance of AI-generated feedback by students is influenced by their perceived accuracy and personalization of the feedback.



KEY CONCEPTS



KEY CONCEPTS

An overview of AI generated feedback

- AWE Vs AI (Shi and Aryadoust, 2024)
- Feedback Type Preferences



KEY CONCEPTS

- Perceived usefulness of GenAI feedback
- Technology Acceptance Model (TAM) (Davis, 1989)
- Impact on writing skills
- Engagement and motivation
- Challenges



APPROACH

- How to use GenAI tools to design writing task and rubrics?
- What will participants engage with in this SURF project?



APPROACH-ASSESSMENT DESIGN



MAGIC SCHOOL



Rubric Generator

Have AI write a rubric for an assignment you are creating for your class in a table format.



AI Resistant Assignments

Receive suggestions on making assignments more challenging for AI chatbots.



Prompt Assistant **NEW**

Input your prompt to have it improved and get feedback on your prompting skills.



KIMI

REPOSTSEO

Plagiarism Checker

DA Checker

Paraphrasing

Summarizer

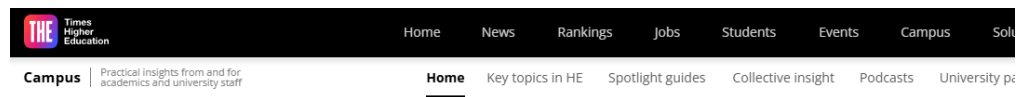
Essay Writer

Image To Text

Humanizer **NEW**



APPROACH-DATA COLLECTION



Using GenAI tools to refine EAP assessment

There are several tools available to help English for academic purposes assess students' writing skills. Here is some guidance on how to use a selection of them

Artificial intelligence

University assessment and quality assurance

Course design and delivery

Feature article

Asia

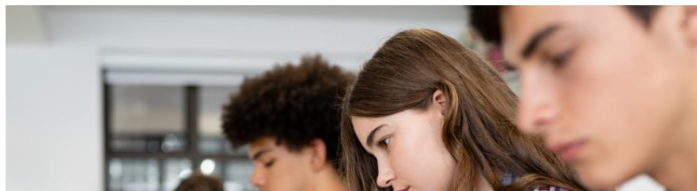


Rui Xu (Tiffany), Mengqi Hu

Xi'an Jiaotong-Liverpool University

31 Oct 2024

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Main text



APPROACH-PARTICIPANT INFORMATION

Week	Participant responsibility	Duration
1	You will receive an essay topic and write a 300-word writing as your first draft in Microsoft word	2 hours
3	You will receive AI tools' generated feedback and finish editing, to submit your final draft	1 hour
4	You will complete an online survey about your editing experience with AI tools' generated feedback	20 minutes
5	You will join an online focus group discussion via Tencent to share your comments on this whole writing and editing experience with AI generated feedback	30 minutes

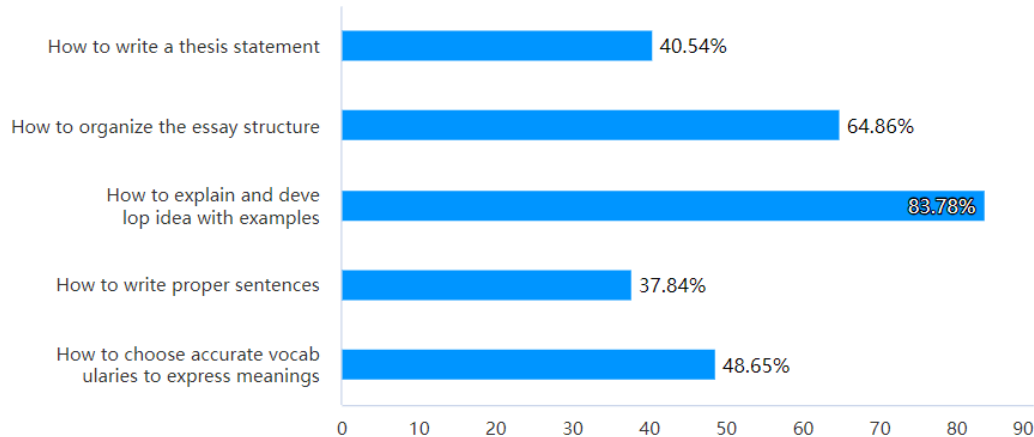


SURVEY RESULTS

- Survey sample size: 37 participants, primarily Year 1 and Year 2 students, with a slight majority being female (59.46%).

5 The majority prioritize developing ideas with examples as the top factor.

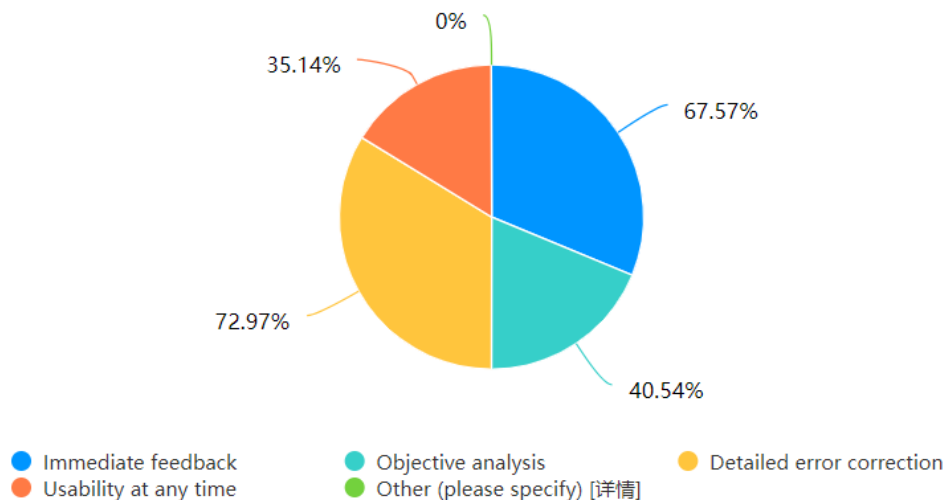
Over 83% of respondents selected 'How to explain and develop ideas with examples' as one of their three most important factors, making it the most emphasized aspect in first-draft writing.



SURVEY RESULTS

11 Detailed error correction and immediate feedback are the most valued AI feedback features.

Detailed error correction was selected by 72.97% of respondents, followed by immediate feedback at 67.57%, indicating these are the top priorities for users.



SURVEY RESULTS

The majority of participants:

- prioritized linguistic precision in feedback
- perceived high efficacy
- valued detailed error correction in grammar and vocabulary



FOCUS GROUP RESULTS

1. **Tool Usage:** Grammarly is widely used for grammar and vocabulary improvements, while XIPU AI excels in professional writing styles and detailed feedback. Kimi offers valuable logic-related feedback but performs less effectively in other areas.
2. **Grammar Improvement:** Grammarly and XIPU AI are effective in correcting grammatical errors and enhancing sentence structures.
3. **Vocabulary Enhancement:** Grammarly and XIPU AI assist users in adopting more formal and precise vocabulary, with Kimi providing limited support.
4. **Paragraph Organization:** Magic School and XIPU AI contribute to better paragraph structure, though Kimi show limited impact in this area.
5. **Logic Feedback:** Kimi is recognized for its ability to enhance logical coherence, while Grammarly and XIPU AI provide additional support through example suggestions and structural feedback.
6. **Teacher Feedback Importance:** Participants consistently emphasize the necessity of teacher feedback, especially for guiding logical reasoning, offering emotional support, and ensuring personalized guidance.



IMPLICATIONS

- **Student Engagement and Learning Outcomes:** The integration of GenAI in feedback provision has the potential to revolutionize learning feedback, with positive effects on student engagement and learning outcomes.
- **AI+ Teacher Model:** Combining AI feedback with teacher input can leverage the strengths of both, providing comprehensive and nuanced feedback that addresses diverse error categories and supports holistic learning.



IMPLICATIONS

- **Creativity and Critical Thinking:** Despite the benefits, students express concerns about the potential negative impacts of GenAI tools on creativity and critical thinking. Some fear that overreliance on AI might hinder their ability to develop these essential skills. This concern is rooted in the constructivist theory, which emphasizes the importance of active learning and critical thinking in knowledge construction.
- **Ethical and Practical Issues:** Students also highlight ethical concerns, such as the potential for plagiarism and the need for maintaining academic integrity. These concerns align with the ethical use of technology framework, which stresses the importance of using technology responsibly and ethically in educational settings.



EXPLORATION

- Kimi
- Magic school (Raina Chatbot)
- Grammarly

Let's explore and evaluate these AI tools' generated content.

Possible prompt:

Write a discursive essay based on the essay topic below.

Benefits and drawbacks of integrating Generative AI in Higher Education. Word count: 300-500 words. Source: use at least 3 academic sources.



REFERENCES

Davis, F.D. (1989). Perceived Usefulness, Perceived Ease Of Use, And User Acceptance. MIS Quarterly, 13(3), 319-340.

Shi, H., and Aryadoust, V. (2024). A systematic review of AI-based automated written feedback research. ReCALL, 36(2), 187–209. doi:10.1017/S0958344023000265



THANK YOU



Xi'an Jiaotong-Liverpool University

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