



# Applications of Generative AI: English Education


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# TABLE OF CONTENTS

 **01** Intro and background of ChatGPT

 **02** Research Framework

 **03** Applications of ChatGPT for students and Instructors

 **04** Further dicussion and Conclusion







01



# Introduction

Background of ChatGPT







# Introduction

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- Developed by OpenAI, ChatGPT has attracted considerable attention and sparked an intensive debate regarding its role in education.
- This paper aims to investigate ChatGPT's applications into education by providing practical examples to improve English teaching in China.
- This paper describes ChatGPT's potential to help students and instructors and provides the merits of using artificial intelligence for education.







# Characteristics of ChatGPT

- Designed with interactive nature in mind
- There are 4 mechanisms that contribute to ChatGPT's functioning, which are
  - Transformer model
  - Reinforcement Learning from Human Feedback
  - Instruction Tuning
  - Chain of Thought







# Characteristics of ChatGPT

## 4 main competencies

- Original Content Generation
  - ChatGPT can provide original text using its extensive database.
- Contextual dialogue comprehension
  - Pre-training models help ChatGPT comprehend user semantics, which helps generate responses.
- Directive task execution
  - Understands the logic and execution sequence.
- Programming language parsing
  - Analyzes code program structures and algorithm construction
  - Generated based on task requirements

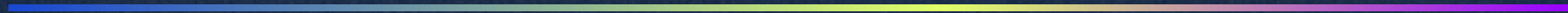






02

# Research Framework







# Research Questions

- What are the main potential applications of ChatGPT in domestic English education?
- What are the main advantages of the application of ChatGPT in domestic English education?







03

# Applications of ChatGPT

For students and instructors in English education

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# Benefits for students

- Helps students in reading, writing, listening and speaking.
- Examples:
  - Provides feedback and tests to help improve grammar, vocabular, pronunciation, etc.
  - Contextualizes errors
  - Can create texts for self-study, which can improve student confidence
  - Can create materials that cater to students interest





# Benefits for educators



- Syllabus Generation
  - Can be used to create a syllabus, which can be specific based on user requirements
- Self-Learning Assistance
  - Reduces information retrieval time, spatial learning constraints
  - Provides Chinese translations
- Teaching Feedback
  - Provides feedback, which reduces time investment for educators





ChatGPT ▾



You

Please generate 5 exercises on attributive clauses with increasing difficulty.



ChatGPT

Sure, here are five exercises on attributive clauses with increasing difficulty:

1. **Basic Identification:**

Identify the attributive clause in the following sentence:

Example: "The book that is on the table is mine."

Exercise: "The car parked in the driveway belongs to John."

2. **Fill in the Blanks:**

Complete the sentence with the appropriate attributive clause:



# Examples



ChatGPT ▾

Sign u

3. **Sentence Transformation:**

Rewrite the sentence using an attributive clause:

Example: "The boy has a bike. The bike is blue."

Exercise: "The company announced a new product. The product aims to revolutionize the industry."

4. **Error Correction:**

Identify and correct the error in the attributive clause:

Example: "The dog who barks loudly is annoying."



Exercise: "The girl which won the competition is my sister."




Generated using prompts from  
the paper






 ChatGPT  [Sign up](#)


 **You**

I am a junior high school student, now I want to master more knowledge of attributive clauses, can you briefly explain to me the grammar and application of attributive clauses?

 **ChatGPT**

Of course! Attributive clauses, also known as relative clauses, are a type of subordinate clause that provide additional information about a noun in the main clause. They are often introduced by relative pronouns like "who," "whom," "whose," "which," and "that." Here's a brief overview of the grammar and application of attributive clauses:



**Grammar:**



- Relative Pronouns:** These are words that introduce attributive clauses

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# Examples

- Placement:** Attributive clauses usually come immediately after the noun they modify.
- Verb Forms:** The verb in the attributive clause agrees in number and person with its antecedent in the main clause.

**Application:**

- Adding Information:** Attributive clauses provide extra information about a noun in the main clause, helping to give a clearer picture or context.
- Avoiding Repetition:** Instead of repeating the same noun, attributive clauses allow for more concise and varied sentence structures.







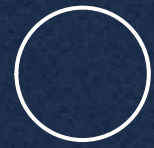
04

# Further Discussion & Conclusion

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## Benefits of implementing Generative AI

- Increases efficiency by reducing time consuming activities
- Offers valuable guidance
- Improves autonomy and learner initiative to help with language acquisition
- Created individualized practice and resources to personalize education







## Further Discussion

- Paper did not mention drawbacks (hallucination, plagiarism, etc)
- A large sample size could have improved feasibility of findings
- Further forms of experiments could have strengthened paper, such as comparing teacher vs ChatGPT feedback







## Conclusion

- A fascinating paper that motivates educators to adopt this technology.
- Highlights the advantages of adopting ChatGPT in English education
- Making adjustments in learning, teaching and evaluation can benefit students and educators.







Thank you!

