

Human, AI-Assisted, and AI-Generated Creative Writing

Discipline: Educational Psychology

Focus: Research lab, Creativity, Writing

Overview

A research project on human creativity and cognition alongside AI. The pilot study asks how expert raters judge short stories written with different levels of AI involvement.

Pilot study design

- **Prompt:** write a short story about taking chances.
- **Conditions:** solo writing (control); AI brainstorming before writing; AI editing after writing; and a fully AI-generated story.
- **Students:** assess their own creative effort and share their full chat history in AI conditions.
- **Expert raters:** score creativity and technical skill using the Consensual Assessment Technique, rank the stories, and try to identify the level of AI use.

Hypotheses

Solo stories will differ from all other conditions; raters will agree with one another; raters will identify solo and fully AI stories but not human-AI collaborations.

Related work

The framework has been used in a funding application with a computer science colleague.

Advice for colleagues

| Look for collaborators; there is interest in this line of inquiry across disciplines.

Adapting it

The four conditions can be run as a class activity: students write under different AI conditions, then the class rates the pieces blind and discusses what changed.

Materials

[Project files \(Google Drive\)](#).

From the 2025–26 Teaching Innovation Institute (TII) cohort, University of Kentucky. Sources: 2025 TII Showcase posters (December 3, 2025) and the 2025–26 TII Project Takeaways survey.