

Washington University in St. Louis

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### AI Assignment Repositories: Peer-Generated Teaching Activities You Can Actually Use

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# AI Assignment Repositories

## Peer-Generated Activities You Can Actually Use

FTTC 2024: Focus on Teaching and Technology  
Conference  
Friday, October 4<sup>th</sup>, 2024

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What are some of the challenges of developing teaching materials that prepare students for a world with generative AI?

These can be logistical challenges that you face as an instructor, or big-picture challenges about your field.

## Share your ideas on Padlet:

Post as many times as you'd like!



<https://padlet.com/tilghman/FTTC2024>

# A Campus Partnership



**WashU**

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Center for  
Teaching & Learning



**WashU | Libraries**

# Online Repository: Generative AI Teaching Activities

- Hosted by WashU Libraries **Open Scholarship Institutional Repository**
- Contains teaching materials created and used by WashU faculty and instructors

The screenshot shows the homepage of the Open Scholarship Institutional Repository. The header includes the Washington University in St. Louis logo and the text 'Open Scholarship Institutional Repository'. Below the header is a navigation bar with links for 'Home', 'About', 'FAQ', and 'My Account'. The main content area is divided into two columns. The left column contains a search bar with a 'Search' button, a dropdown menu set to 'in this repository', and links for 'Advanced Search', 'Notify me via email or RSS', 'Browse', 'Collections', 'Disciplines', 'Authors', 'Author Corner', 'Author FAQ', and 'Submit Research'. The right column features a search filter 'Academic department, school or college' with a link to 'About the Repository'. Below this is an 'Expand All' button and a list of categories: 'All Theses and Dissertations (ETDs)', 'Arts & Sciences', 'Books and Monographs', 'Brown School', 'Business School Undergraduate Research', 'Center for Teaching and Learning', 'Conferences and Symposia', 'Geographic Information Systems (GIS)', 'Law School', and 'McKelvey School of Engineering'. The 'Center for Teaching and Learning' category is highlighted with a red box.

<https://openscholarship.wustl.edu/communities>

# Submission Steps

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1. Create an account at <https://openscholarship.wustl.edu>
2. Access Submission form for /ai\_teaching (Generative AI Teaching Materials)
3. Agree to Submission Agreement Terms
4. Complete Submission Form
  - Describe activity
  - Categorize activity
  - Upload materials
  - Select licensing
  - Submit for review
5. Administrator reviews and posts activity, updates site
  - Activity is now live!
  - Submitter is notified if email was included.

# Metadata Fields

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- Title (req)
- Author (req)
- Date Uploaded (req)
- Activity Source (original or reference) (req)
- Summary (1-2 sentences) (req)
- Extended Summary (*optional*)
- Student Learning Objectives (*optional*)
- Keywords (req)
- Assignment Type (req)
- Course Level (req)
- Used in course? (Yes/No) (req)
- Disciplines (req)
- Student-AI Collaboration (req)
- Type of Task (req)
- Upload File (req)
- Additional Files (*optional*)
- Uploader/Author Affiliation (req)
- Creative Commons License (req)
- Notes to Administrator (*optional*)

# Viewing the Collection

[https://openscholarship.wustl.edu/ai\\_teaching](https://openscholarship.wustl.edu/ai_teaching)

- Generative AI Teaching Materials
- Grouped by year with subjects and summary displayed (custom display)

## Jump to:

2024 ▾

Teaching Activities from 2024



[Activity: Students find conceptual errors in AI output](#), Janie Brennan

Chemical Engineering | Chemistry | Engineering | Mechanical Engineering | Physics

*Instructor asks ChatGPT questions related to a key concept to find one where ChatGPT has conceptual errors. Ask students to find the errors and explain them.*



[Does AI Ask Good Questions? A Discussion Activity](#), Katherine Tilghman

Arts and Humanities | English Language and Literature | Feminist, Gender, and Sexuality Studies | Philosophy | Reading and Language | Spanish and Portuguese Language and Literature

*Students will prompt ChatGPT to generate discussion questions about a course text or*



# Browsing the Collection

<https://openscholarship.wustl.edu/aiteach>

- Generative AI Teaching Materials Collection
- Browse/Filter by the submission fields

This collection contains teaching materials created and used by faculty and instructors at Washington University in St. Louis. The materials are based on using AI (Artificial Intelligence) as a teaching tool. The collection was developed by the Center for Teaching and Learning.

Follow

Browse the *Generative AI Teaching Materials Collection*:

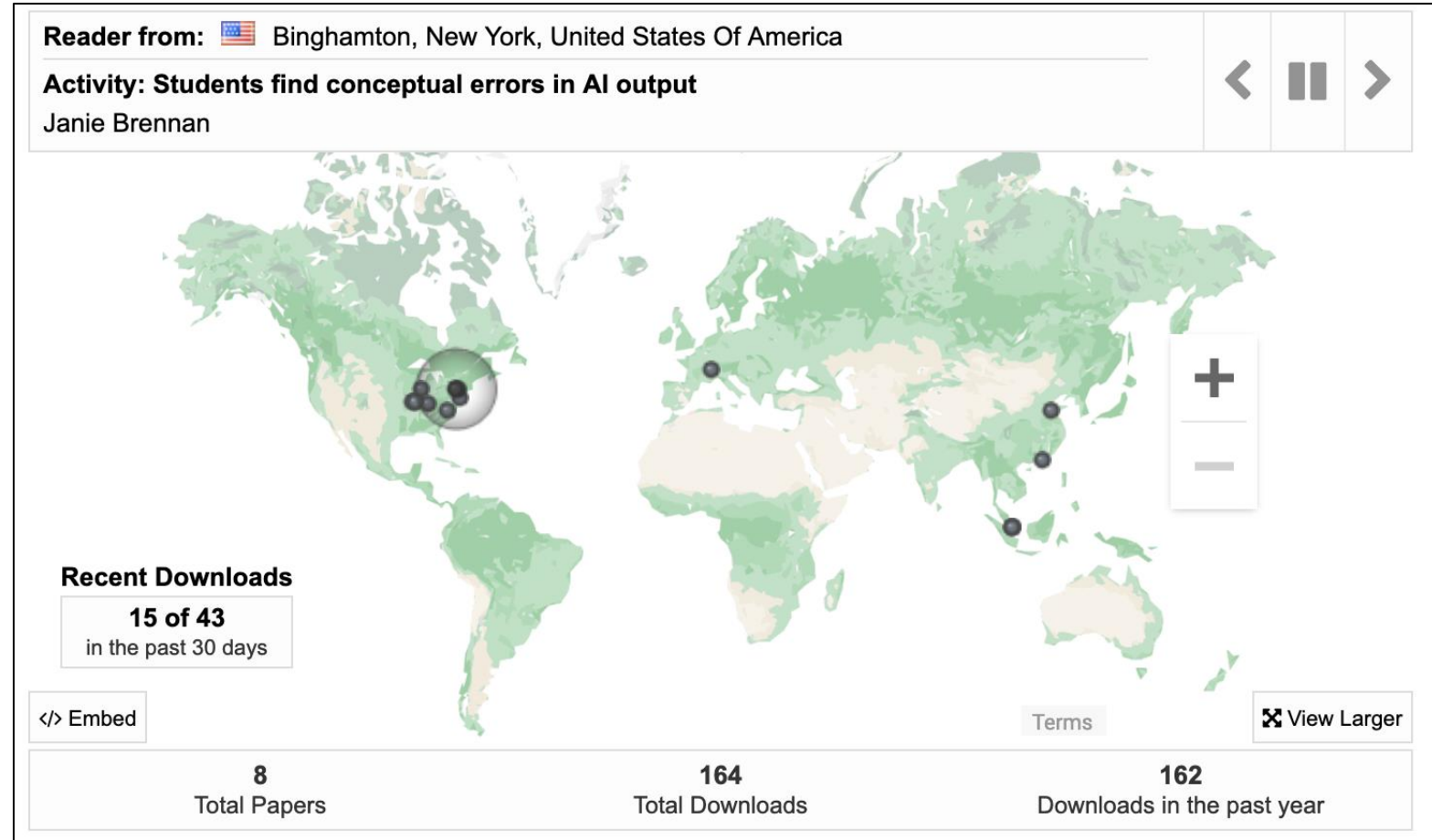
[Generative AI Teaching Activities](#)

[Generative AI Teaching Activities by Filters](#)

- [AI Teaching Materials: Filter by Assignment Type](#)
- [AI Teaching Materials: Filter by CC License](#)
- [AI Teaching Materials: Filter by Course Level](#)
- [AI Teaching Materials: Filter by Discipline](#)
- [AI Teaching Materials: Filter by Type of Student AI Collaboration](#)
- [AI Teaching Materials: Filter by Work Type](#)

# Downloads and Usage

- Public download map
- Administrator access:
  - View by Institution or Country
  - See where users were referred from



# Sample Item from Collection

- Teaching Evolutionary Principles with AI Image Generators
- [https://openscholarship.wustl.edu/ai\\_teaching/3/](https://openscholarship.wustl.edu/ai_teaching/3/)

## Teaching Evolutionary Principles with AI Image Generators

[Jacqueline Garnett](#), *Washington University in St. Louis*

Follow

### Date Uploaded

Spring 4-3-2024

### Activity source

Original

### Summary

The purpose of this assignment is for students to practice constructing phylogenies using the principle of parsimony. In this activity, students will use an AI Image Generator to create a grid of images of the same organism and identify a series of traits that vary to build a possible phylogenetic tree.

### Student Learning Objectives

- Describe the concept of parsimony.
- Understand the difference between homology and homoplasy.
- Explain why shared derived characters are useful in establishing a phylogeny, while shared ancestral characters are not.

Download

21 DOWNLOADS

Since April 04, 2024

INCLUDED IN

[Biology Commons](#), [Evolution Commons](#)

SHARE



### Activity:

1. Create a 3x3 grid of an organism of choice (e.g., birds) (left). Each box in the grid will be labelled Species A-I (right). Students can be creative by selecting different artistic styles or other components.

*Prompt: Create a 3x3 grid of different birds in the style of Van Gogh*



Species A	Species B	Species C
Species D	Species E	Species F
Species G	Species H	Species I

2. Identify 5 traits among the organisms in the grid.
3. Species
  - a. *In this example, possible traits could include beak length (long/short), wing/breast/head/tail colouration, striped wings, number of talons, etc.*
4. Assume that the **outgroup** does not possess any of the traits above.
5. Create a table of trait absence/presence among the species  
(absent = 0, present = 1)



# Challenges of Faculty Engagement



# Challenges of Faculty Engagement

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- Unfamiliar platform
- Lack of confidence in AI-related work
- No culture of sharing teaching materials
- Competing for time and attention
- Does it Count?

What strategies have worked on your campus to boost faculty engagement?

How can you see yourself implementing the strategies we've mentioned so far?

# Thank you!

**Check out the repository online:**

<https://openscholarship.wustl.edu/aiteach>

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