











# From overwhelm to insight

How JSTOR's AI tool empowers researchers in the humanities and social sciences

**LIBER** | Friday, 5 July 2024 | 9:00 – 10:30

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Javanica Curry, Sr. Director Institutional Development and Strategic Partnerships

We are a not-for-profit with a mission to improve access to knowledge and education for people around the world.















"Transition from Complexity to Clarity in Research". OpenAl's DALL-E. June 2024. Custom generated for personal and educational use

## ITHAKA and generative AI

- Use GenAI in ways that uphold our values
- Proceed cautiously and don't get ahead of our understanding
- Implement AI in ways that support the educational experience, not replace it
- Help the education community make the best use of these capabilities and share what we learn
- Continuous learning



Mlle Claire, l'imfirmière Automate de l'Hôpital Bretonneau. Color. U.S. National Library of Medicine (NLM): Images from the History of Medicine; Gift: William H. Helfand: 2003: 03-75

## What we're doing now

- A multi-year collaborative research project between Ithaka S+R and 19 colleges and universities
- Using generative AI to explore JSTOR. Our beta release of a new research tool empowers researchers to do their work more efficiently and effectively
- Exploring how to use AI to enrich metadata through Project Odyssey



Our work Publications

People

About Contact us

May 24 2023

### Making Al Generative for Higher Education

Announcing the Partners for a New Multi-Year Research Project

Danielle Miriam Cooper, Dylan Ruedige

The ability of computers to create content is advancing rapidly, sourring an investment arms race within the technology sector. As new products like ChatGPT and Midjourney turn Al into a part of daily life, universities are facing decisions about how students, instructors, and researchers can

This fall, as part of a two-year research project, Ithaka S+R is convening a select group of universities committed to making Al generative for their campus community. Today we are excited to share the partnering schools in the Making Al Generative for Higher Education project:

- Bryant University
- Carnegie Mellon University
- Concordia University
- Duke University
- · East Carolina University
- McMaster University
- Princeton University
- · Queen's University
- Stony Brook University
- Temple University
- University of Arizona
- · University of Baltimore
- · University of Chicago · University of Connecticut
- · University of Delaware
- . University of New Mexico
- . University of North Texas
- Weslevan University

Together the partners in the Making Al Generative for Higher Education will assess the immediate and emerging AI applications most likely to impact teaching, learning, and research and explore the long-term needs of institutions, instructors, and scholars as they navigate this environment.

### How will the project work?

During the first year, we will comprehensively review the areas of university activity most affected by this emerging technology. The project will kick-off with an assessment exercise where the cohort will gauge the readiness of their campuses to productively leverage generative Altechnologies for teaching and research purposes. In parallel, Ithaka S+R will comprehensively review relevant technological, policy, service, and product developments and publish updates from the project's initial activities by the end of 2023.

In winter 2024, the project will focus on gathering perspectives from those working with generative All technologies in a variety of disciplines. Ithaka S+R and the participating universities will conduct semi-structured interviews with instructors and researchers, which will create the largest qualitative dataset to-date on the higher education use-case. In 2024, we will also release a public report to share the findings

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### Dylan Ruedige

Senior Program Manager, The Research



### Recent Content

### March 20, 2024

The Library of Congress Research Experience Survey Is Open

March 14, 2024 An Emerging Framework for Data Services

### March 12, 2024

The College Fluency Survey is Open!

March 7, 2024 Keeping Up with the Educational Market for Generative Al Tools

Generative AI in Higher Education

## AI beta testing on JSTOR

## Intensive and rapid initial build

Goal to get something in the hands of users as quickly as possible to begin the learning process

### **Scope selection**

Identified the capabilities and user behaviors to focus on in the initial stage

### **Rollout strategy**

Chose the limited beta approach to maximize learning and reduce risk

tool actions

$$22,500+$$

active beta users

institutions

149

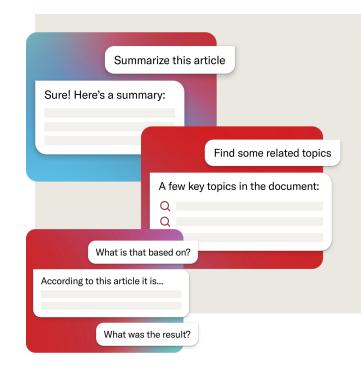
countries

# JSTOR's GenAI-powered research tool (beta)

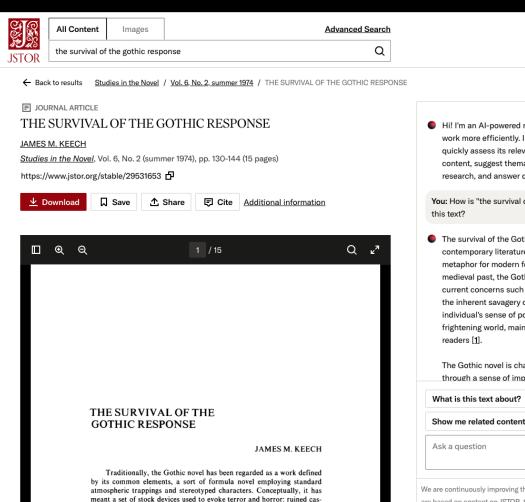
How might we use AI to improve the experience of evaluating and understanding content for our users?

## Getting started with AI on JSTOR

- Guiding principles: Use GenAI in ways that uphold our values, supporting the educational experience, not replacing it
- Technology: Utilize OpenAl's GPT-3.5 and Anthropic's Claude 3 Haiku for responses, and open-source models for semantic search/RAG
- Safeguards: Limit to JSTOR content, employ human and automated evaluations, and use custom prompts







tles and abbeys, dank dungeons, gloomy tyrants, mad monks, imperiled

maidans sagest shambars haunted galleries arealring doors must be included

 Hi! I'm an Al-powered research tool designed to help you work more efficiently. I can summarize a text to help you quickly assess its relevance, recommend related JSTOR content, suggest thematically similar topics to further your research, and answer questions about what you're reading. You: How is "the survival of the gothic response" related to The survival of the Gothic response is evident in contemporary literature as it continues to serve as a metaphor for modern fears and evils. Originally rooted in the medieval past, the Gothic response has evolved to reflect current concerns such as sexual passion, materialism, and the inherent savagery of humanity. It now symbolizes an individual's sense of powerlessness in a complex and frightening world, maintaining its effectiveness in disturbing The Gothic novel is characterized by its ability to evoke fear through a sense of impending danger and evil, creating an Recommend topics Show me related content Ask a question about this text Send We are continuously improving this tool with your feedback. While responses

are based on content on JSTOR, the tool may produce biased or inaccurate

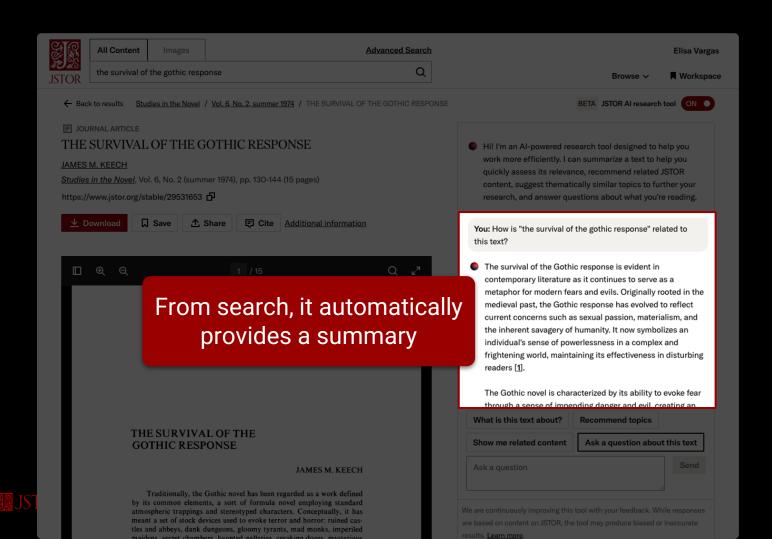
results. Learn more.

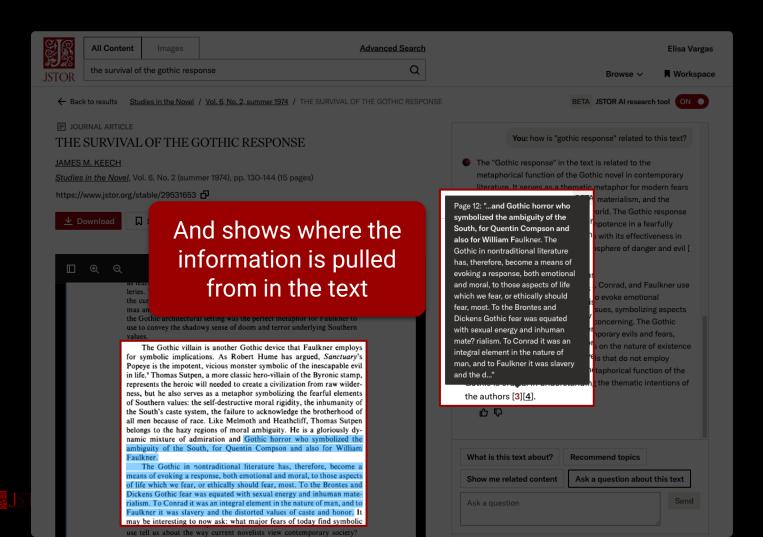
Elisa Vargas

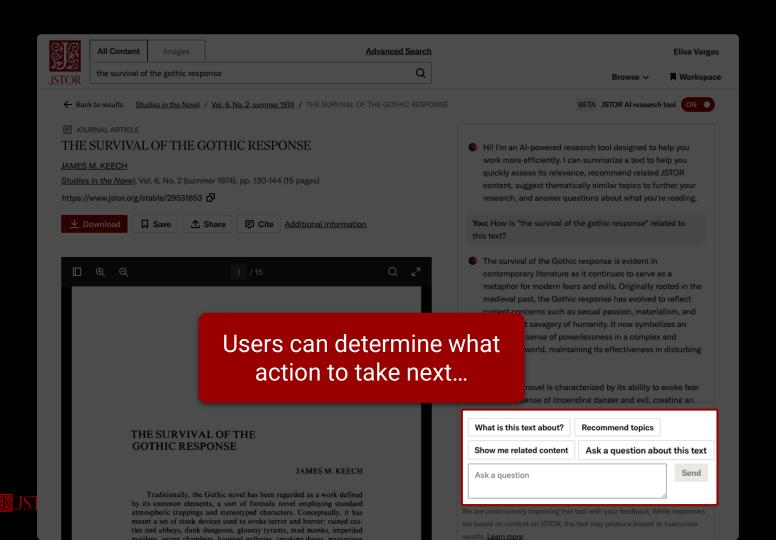
Workspace

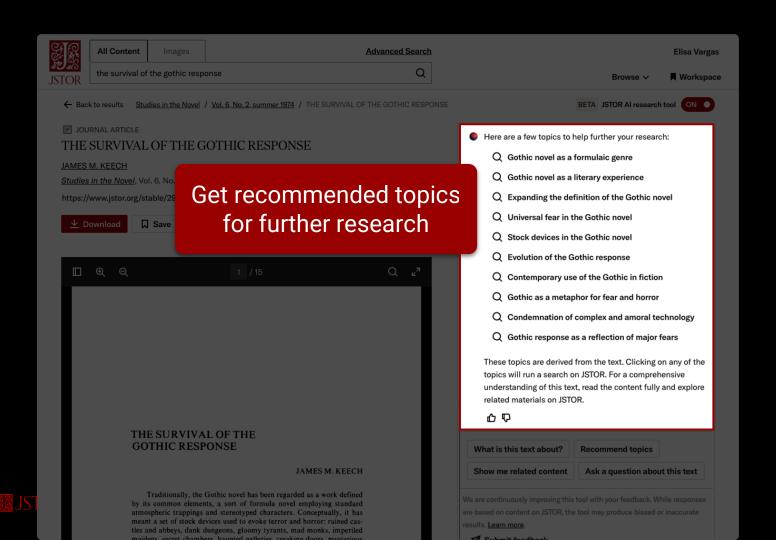
Browse ∨

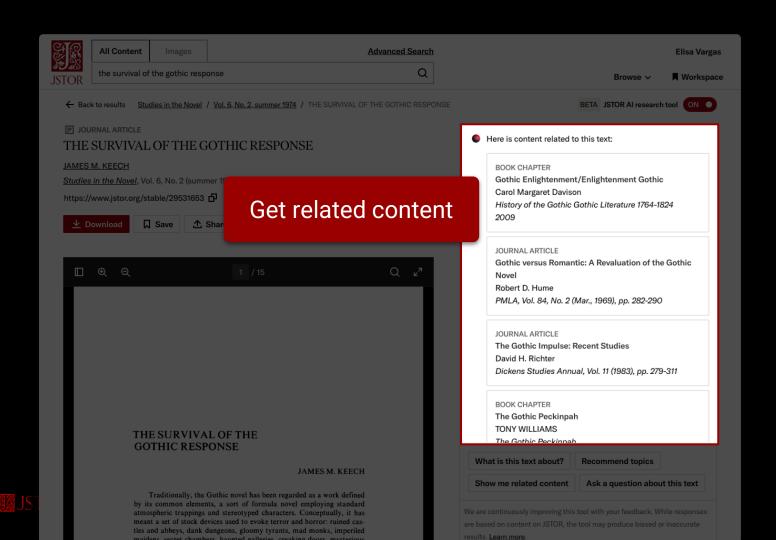
BETA JSTOR AI research tool

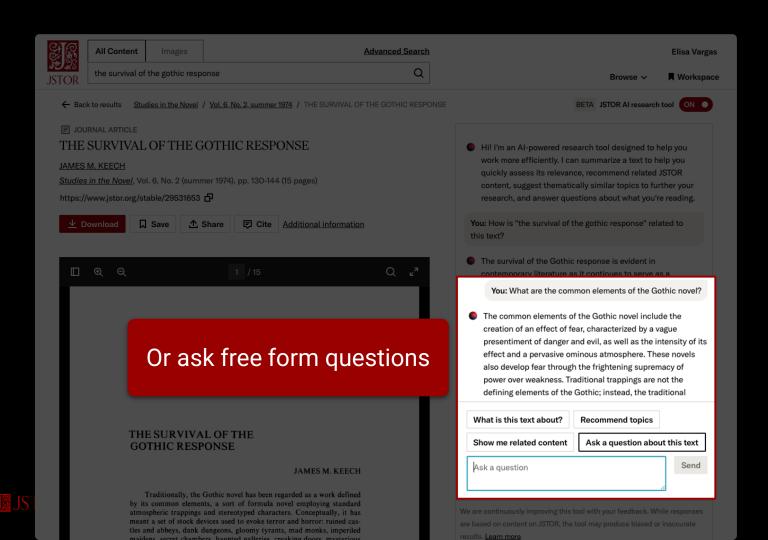


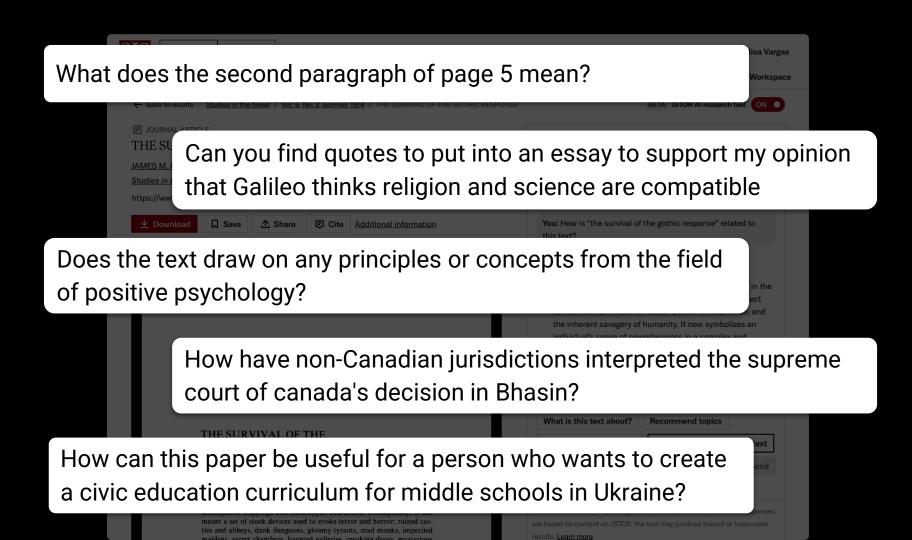




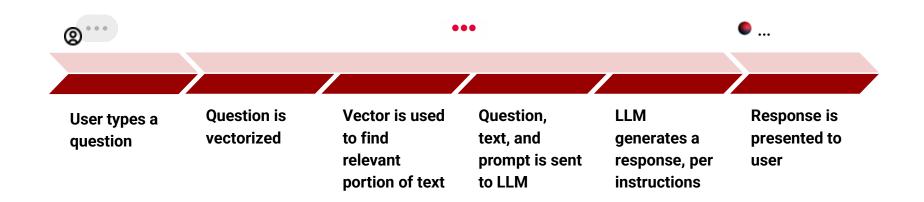








## How Q&A works



## Ensuring quality and trustworthy responses

### Human evaluation △ ♥

- Positive/negative rating
- Flag: inaccurate, incomplete, confusing, harmful
- Commentary

### **Automated evaluation**

- Human-developed ground truth dataset
- Faithfulness
- Answer relevancy
- Answer similarity



### **Key learnings and takeaways**

## Novice researcher

Less time finding content; more time understanding the text.

Conversation makes them more reflective and thoughtful.



### **Key learnings and takeaways**

## Experienced researcher

Less time finding content; more time finding novel concepts.

Greater discovery and conversations assists with exploration.

### **Key learnings and takeaways**

## Instructor

New method for teaching evaluation and making judgements.

Develop research skills through conversation to develop strong perspective.



Bill McConkey. "Mechanical Man." n.d. Wellcome Collection.

## What's next?

### Institutional-focused beta

- Mutual learning
- Operating at scale
- Measuring value and impact
- Al literacy and effects on instruction

## Thank you.

Scan the QR code to share your thoughts, request access to the beta, or express interest in collaborating with us.



Keeping Up with the Educational Market for Generative Al Tools sr.ithaka.org/blog/keeping-up-with-the-educational-market-for-generative-ai-tools/

Generative Al Product Tracker sr.ithaka.org/our-work/generative-ai-product-tracker/