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# Zodpovedná akademická umelá inteligencia (Al) pre výskumníkov Veb of Science



Eniko Toth Szasz | máj 2024



Students & researchers increasingly using AI tools, across multiple use cases Universities actively developing guiding principles Balancing educational & research benefits vs. misuse (e.g., bias, plagiarism) Evaluating how to leverage in curricula & research processes

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Pushing the boundaries of research & education through a responsible application of AI

Committed to:

Driving research integrity

Advancing learning outcomes

Increasing productivity

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# **Our AI Strategy & Approach**



Authoritative, trusted<br/>scholarly contentEmbedded in<br/>academic workflowsAI technology<br/>expertise & talentDeep partnerships with<br/>academic communityStrong governance<br/>for responsible AI



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Committed to Responsible Application of Al

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### At Clarivate, we:

- Deliver trusted content and data, based on authoritative academic sources
- Ensure proper attribution and easy access to cited works
- Provide clear transparency into the content sources used
- Collaborate with publishers, ensuring clear usage rights
- Do not use licensed content to train public LLM and AI
- Adhere to evolving global regulations

# **Community Collaboration: Unlocking the potential of AI**

Only together can we apply AI responsibly

### Working with our community to:

- Share insights & findings
- Evaluate results
- Gather feedback from librarians, students, and faculty
- Mitigate inaccuracies & bias issues
- Share adoption best practices



# New! Al Advisory Council

### Clarivate<sup>™</sup>

# Al in Web of Science

Powering research excellence with new tools

Clarivate<sup>®</sup>

### Web of Science Al journal monitoring tool

Outlier detection model supports existing human curation processes: Web of Science editors review journals flagged by the system. **Goal:** Identify anomalous publishing behavior in journals.

**Method**: Use a complex statistical score to identify deviation from past publishing behavior and deviations from the publishing behavior of other journals sharing the same Web of Science category. A combined score is used to flag highly anomalous journals for expert review.



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### **Citation context**

AI for enriched discovery in the Web of Science



Example Web of Science record

A popular feature built with input from the community.

- 40k "Filter By Enriched Cited References" per week
- Conduct more targeted searches
- Locate must-read papers
- Build nuanced understanding of how and why citations occur

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# Positive user feedback since our launch in 2021



"I like this feature! It helps me to identify the part cited the most. It is going to help me doing reading for my coursework!"

Lancaster University 11 May via Pendo feedback



"Awesome"

National Taiwan University 8 May via Pendo feedback



Ludo Waltman @LudoWaltman · May 4 Interesting development: @webofscience is going to provide 'enriched cited references', showing where a reference is cited in the full text of an article and how many times it is cited



New WoS April 29 Release Notes - Web of Science Group You may also like ... We've expanded the "You may also like," feature so that suggested records will now appear on every single item in the Web... @ clarivate.com



"Very interesting feature, it brings very useful information. I'm making a very basic search now, but for state-of-art literature gathering I think it would be a key game changer." (UNIV CATOLICA DE SANTA MARÍA, 22 July via Pendo feedback)

"These new features just made grad school so much easier!" (University of North Carolina Wilmington, 13 Sept via Pendo feedback)

### **Enhanced search experience**

Al for improved searching in the Web of Science

Search
NG + CLIMATE + DROUGHT + CLIMATE CHANGE AE
GD Copy query lin
keyword suggestions

- Quickly and efficiently narrow your search and improve the relevancy of your results.
- Modify your search using algorithmically generated author keywords and topic suggestions or input free text in the search box.

### Clarivate<sup>™</sup>

Available from September 2024

Clarivate										
Web of Science Search		Adv	vanced search	Research Assistant			🌲 😝 Jennifer Ville			
	🖽 New question	×								
	Research History Today			Start a new chat by asking a question						
M	New chat	:								
3	How do microfluidics help with	:		Ask a research question			€			
2	top researchers in civil engineer	:								
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health outcomes compare befo										
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	an experimental tool. Learn more	13								

A generative AI-powered tool that helps researchers at all levels get more out of their interactions with the trusted publication and citation data in Web of Science Core Collection.

- ✓ Find key papers faster
- ✓ Navigate complex research tasks
- Enrich discovery with analytics

Currently in beta with development partners

### Web of Science Research Assistant - Development Partners

Working directly with libraries and researchers to get feedback and guide development



More than conversational search



"We're excited about the Al features that Web of Science is developing. I think Web of Science Research Assistant will be far superior to the other genAl tools currently available to faculty and students at the moment."

Juan P. Denzer Engineering & Computer Science Librarian Syracuse University

# Find key papers faster



 Search efficiently with natural language, multilingual queries.



 Grasp core concepts faster with concise overviews and commentaries.



 ✓ Get the full picture with over 120 years of indexed research.



### Navigate complex research tasks





# **Enrich discovery with analytics**



Uncover related topics to narrow or expand your search.



Identify trends in a field to help define your research direction.



Generate networks to visualize connections between people and papers.

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When two documents are co-cited, it means that they are cited together by other documents. The more co-citations two documents receive, the higher their co-citation strength, indicating that they are semantically related. By analyzing which documents are frequently cited together, we can identify key literature and understand the evolution of scientific thought.

#### Co-citation map for:

#### Download

"Teaching Tech to Talk: K-12 Conversational Artificial Intelligence Literacy Curriculum and Development Tools" by Averchenokova,A; Fankhauser, S and Finnegan, JJ | Oct 21, 2021



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### Hear what our beta testers have to say

Clarivate"

Leverage innovative technologies with confidence





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# Web of Science Research Assistant



### Search and Discovery

Guided tasks

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Contextual visualizations

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... icquisition theories have evolved over the years, with a wide consensus that the complexity of acquiring a mother tongue cannot be fully explained by any single theory [5]. Whitney's work in the late nineteenth century emphasized language acquisition as the starting point for studying language, rejecting the prevailing divine origin theory and highlighting the continual evolution of language to meet social and personal needs [2]. Recent research has shown a lack of representation from the Global South in language acquisition studies, with Mayan language acquisition making significant contributions to testing theories related to input, lexical, semantic, and morphological development [4]. The importance of understanding linguistic typology in language acquisition is evident through research on Mesoamerican languages like Mayan Tzotzil [4]. Despite the progress made in applying learning theory to language acquisition, there is still a need for greater integration between the two fields to advance understanding in both areas [3].

In conclusion, language diversity plays a crucial role in shaping acquisition theory and practice, highlighting the need for more inclusive research approaches.

I searched for documents with topic "language acquisition theories" and I found more than 10,000 total. Listed below are the 5 most relevant articles:

Exploring language diversity: A commentary on Kidd and Garcia (2022)

2 Citations

2

Citations

William Dwight Wright's study of language acquisition in The Life and Growth of the Science of Language (1875)

Subbiondo, JL 2023 | LANGUAGE & HISTORY

2022 | FIRST LANGUAGE

Pye, C

Defragmenting Learning Kapatsinski, V 2023 | COGNITIVE SCIENCE

Learning from Mayan Tzotzil: A commentary on Kidd and Garcia (2022) 2 De Léon, L 2022 | FIRST LANGUAGE Citations

"Zoi puchukechegelu ni mapuzungun engun: A review of studies on children's speech in mapuzungun

Vivar, P. Henríquez, M 2019 | CUHSO-CULTURA-HOMBRE-SOCIEDAD

View additional documents relevant to this response ightarrow

Search and Discovery

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Contextual visualizations

告诉我有关语言习得的理论

··· ;理论涉及多种学派,如结构主义、生成语言学和基于语言使用的语言学。 生成语法学家倾向于理性主义,认为语言能力的结构反映了先天的指导,而不是环 境影响[4]。与之相对,一些理论家主张经验主义观点,认为发展起来的语言能力结 构反映了语言环境[4]。此外,学习理论和语言习得领域的独立发展曾阻碍了两个领 域的进展[5]。然而,最近在将学习理论应用于语言以及利用语言学习数据推进领域 通用学习理论方面取得了令人兴奋的进展[5]。这些发展为领域之间的信息双向流动 带来了希望[5]。综上所述,语言习得理论的研究涉及多种学派观点,而学习理论和 语言习得领域之间的互动对于两个领域的发展至关重要。

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 De Léon, L
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"Zoi puchukechegelu ni mapuzungun engun: A review of studies on children's speech in mapuzungun

Vivar, P. Henríquez, M 2019 | CUHSO-CULTURA-HOMBRE-SOCIEDAD

View additional documents relevant to this response ->



Search and Discovery

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### **Guided tasks**

Contextual visualizations



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...

I am going to walk you through understanding a topic. What is your topic of interest or research question?

Climate change

The documents discuss various aspects of climate change and its impact. They highlight the importance of adaptation measures to minimize the adverse effects of climate change [1].

What would you like to do next?

Patterns of publishing on this topic

Patterns of publishing on this topic

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Search and Discovery

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**Guided tasks** 

Contextual visualizations

PR

A chart of documents published over time on a specific topic provides insights into research trends, historical context, and the impact of scholarly work. It helps identify emerging subtopics, collaborative networks, and shifts in interest. Researchers and policymakers can use this information to make informed decisions.



What would you like to do next? See top researchers in this topic

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Guided tasks

### **Contextual visualizations**

### Articles on a topic over time



See related and connected concepts

A chart of documents published over time on a specific topic provides insights into research trends, historical context, and the impact of scholarly work. It helps identify emerging subtopics, collaborative networks, and shifts in interest. Researchers and policymakers can use this information to make informed decisions.



Topic map for "Climate change"

### **Citation network**

**Topic map** 

See related documents Co-citation map



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# Web of Science Research Assistant will be available in September

Helping you implement responsible AI tools





### High-quality content

Powered by carefully curated data from editorially selected sources to ensure we deliver insights that add value to your work.

### **Community engagement**

Developed in partnership with researchers and librarians to ensure that we are solving the most pertinent problems.



Optimized by data scientists towards content in the scientific and academic research domain to ensure suitability for your users.





# Think forward<sup>™</sup>

#### About Clarivate

Clarivate<sup>™</sup> is a leading global provider of transformative intelligence. We offer enriched data, insights & analytics, workflow solutions and expert services in the areas of Academia & Government, Intellectual Property and Life Sciences & Healthcare. For more information, please visit <u>clarivate.com</u>.

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