



# **Research Exploration in Academic Administration using AI and SciSpace**

This session will equip students with essential skills for conducting research in academic administration using cutting-edge AI tools and platforms.

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# Learning Objectives

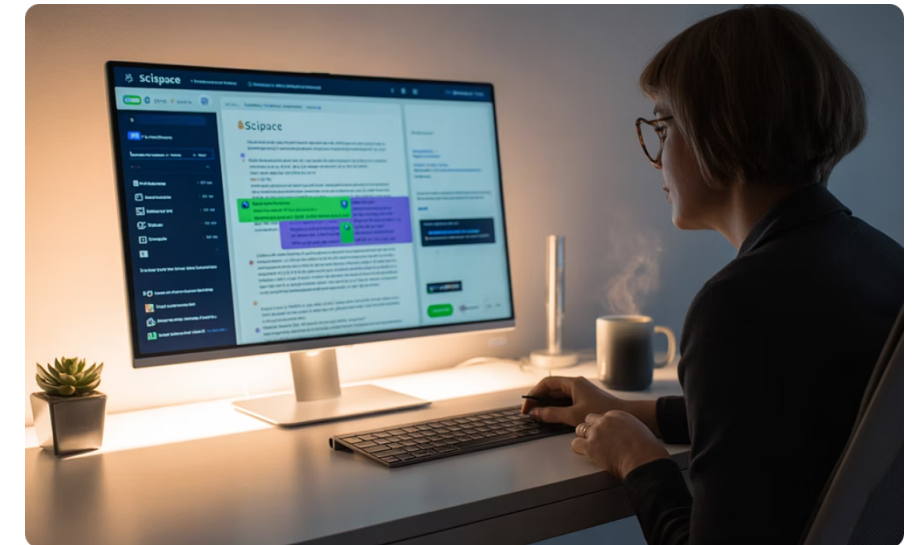
By the end of this session, students will be able to:



Understand how to identify emerging research trends in academic administration by leveraging the power of AI-driven search tools.



Gain hands-on experience in using various AI platforms like ChatGPT to efficiently search for and filter relevant academic articles.



Master the functionalities of SciSpace to effectively analyse, summarise, and critically evaluate academic articles for your research needs.

# Importance of Research in Academic Administration

## Evidence-Based Decision-Making

Provides critical data and insights to inform strategic planning and operational decisions within academic institutions.

## Identifies Challenges & Opportunities

Helps uncover emerging issues and potential areas for growth and improvement in the educational landscape.

## Improves Academic Quality & Innovation

Fosters a culture of continuous enhancement, leading to better curricula, teaching methods, and student outcomes.

## Connects Policy, Practice, & Outcomes

Ensures that administrative policies are grounded in effective practices and contribute positively to learning outcomes.

## Supports Leadership in Educational Change

Empowers leaders with the knowledge required to navigate and drive transformative initiatives in higher education.





# Research Evolution

## AI-Supported vs. Traditional Research Search

Comparing two distinct approaches to navigating academic literature.



### Traditional Research Search

- Manual keyword entry in databases
- Time-consuming filtering of irrelevant results
- Limited access to interdisciplinary insights
- Heavy reliance on researcher's prior knowledge



### AI-Supported Research Search

- Smart suggestions and keyword expansion
- Faster filtering and summarisation
- Identifies patterns and emerging trends
- Provides plain-language summaries and critical insights



# AI: Your Research Accelerator

AI tools like ChatGPT redefine academic search by suggesting intelligent keywords, summarising key points, and highlighting interdisciplinary connections that might otherwise be overlooked.

Think of them as dedicated research assistants, providing swift and insightful support for complex information. Crucially, while AI expands your research horizon by presenting diverse options, your critical judgment remains paramount in discerning true relevance and value.

To make this practical, we'll now engage in an activity focused on prompt generation. This will demonstrate how the precision and quality of your AI prompts directly influence the quality of the research findings.





# What is Prompt Engineering?



Prompt engineering is the art and science of crafting effective instructions for AI models. It involves:

- Crafting clear and specific instructions for AI to guide its output precisely.
- Using keywords, context, and constraints effectively to refine AI responses.
- Testing and refining prompts iteratively to improve the quality and relevance of results.

# Why Precise Prompts Matter

The quality of your research output is directly linked to the precision of your AI prompts.



## Better Prompts, Better Outcomes

Crafting precise prompts leads directly to more accurate, relevant, and actionable research outcomes, ensuring your efforts yield valuable insights.



## Saves Time, Reduces Irrelevance

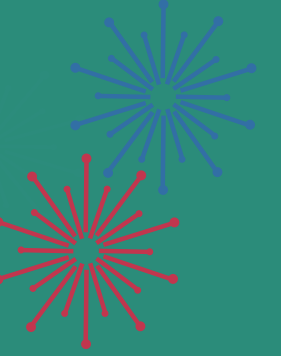
Well-engineered prompts significantly cut down on the time spent sifting through irrelevant information, streamlining your literature review process and accelerating discovery.



## Fosters Critical Thinking

The process of engineering prompts encourages a deeper engagement with your research questions, enhancing your critical thinking skills in framing problems for AI to solve.





# ChatGPT





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# Key Functions of SciSpace

Discover how SciSpace streamlines your research workflow with its powerful capabilities.



## Summarising

Quickly condenses lengthy articles into clear, digestible key points, allowing you to grasp core concepts efficiently.



## Paraphrasing

Restates complex academic sentences into simpler, reader-friendly language, enhancing comprehension and accessibility.



## Citation Analysis

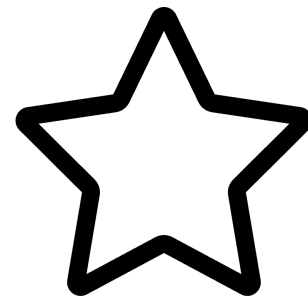
Intelligently tracks references and highlights influential studies, helping you navigate the academic landscape and identify critical works.



# Group Activity – Comparative Analysis

This hands-on group activity challenges you to apply the tools and techniques learned to conduct a comparative analysis of academic research in administration.

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## 1. Select Articles

Each group will carefully select 2-3 pertinent research articles, specifically focusing on various aspects of academic administration, such as [curriculum management](#), [quality assurance](#), or [leadership in education](#).

## 2. Utilise SciSpace for Comparison

Leverage SciSpace's powerful features to efficiently extract, summarise, and compare the key findings, methodologies, and themes across your chosen articles.

## 3. Draft Comparison Table

Develop a comprehensive comparison table that clearly outlines each article's core theme, research methods, primary findings, and identified research gaps.

# Example Draft Comparison Table

Article	Core Theme	Methods Used	Primary Findings	Research Gaps
Smith (2020) <i>Academic Leadership and Curriculum Management</i>	Role of academic leaders in curriculum design and management	Qualitative study using interviews with 20 school administrators	Strong leadership positively influences curriculum alignment with educational goals	Limited sample size, lacks quantitative data to generalize findings
Chen & Li (2021) <i>Technology Integration in Academic Administration</i>	Use of digital tools for administrative efficiency	Mixed-methods: survey of 150 teachers + case studies	Technology use improved efficiency and reduced administrative workload	Did not explore long-term sustainability or training needs
Ahmed (2022) <i>Quality Assurance in Higher Education</i>	Internal quality assurance systems in universities	Document analysis of institutional reports	Identified key indicators for effective quality assurance frameworks	No consideration of student perspectives or external accreditation challenges





# Key Takeaways & Future Impact

Today, we've explored how **AI and SciSpace transform academic administration**. These tools are not just about convenience, but about enabling smarter research and deeper insights.

Remember, technology is a partner to your critical thinking. It empowers you to connect research to real practice, saving time and uncovering new perspectives that shape the future of education.

Carry these skills forward into your own projects. Use AI to **lead with innovation and confidence** in your future academic and leadership endeavors.



# Thank You!

We hope you found this workshop valuable and are ready to apply these new skills.  
Please feel free to ask any questions you may have, or connect with us for further support.

