## Insights: Academic leader attitudes toward AI



## Key Findings



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## Introduction

Since 2022, artificial intelligence (AI) and generative AI (GenAI) tools like ChatGPT have entered mainstream use, including among academics. This has led academic institutions to require an approach to the use of AI. As reported in early 2022, many researchers were already using AI in their work.<sup>1</sup> Universities are now facing the task of developing guidelines for research and education<sup>2</sup>, as well as governance structures.<sup>3</sup>

There is much work left to be done. According to Elsevier's 2024 report *View from the top: Academic leaders' and funders' insights on the challenges ahead*, there is a significant gap between level of priority placed on AI governance and the level of preparedness (64% of academic leaders consider it a high priority vs 23% feel well prepared to address this challenge).<sup>4</sup>

### What is GenAI?

GenAI, short for generative artificial intelligence, refers to a category of artificial intelligence systems and models that have the ability to generate data, content, or other outputs that are similar to those created by humans. These AI systems are designed to produce new and original content rather than simply process or analyze existing data.<sup>5</sup>

As the AI landscape continues to evolve, and the range of potential applications for researchers grows, it is important to monitor the views and behaviors of those who could be using it and those with responsibility for guiding the ethical use of AI. In the full report *Insights 2024: Attitudes toward AI*, we aimed to do this by surveying nearly 3,000 people working in research (including academic leaders) and in health (clinicians) from around the world.

The research examines attitudes towards artificial intelligence (AI), including generative AI (GenAI), covering its attractiveness, perceived impact, the benefits to users and wider society, the degree of transparency for users to be comfortable using tools that capitalize on the technology, and the challenges they see with AI. It also looks at the current usage, and what would help increase trust in AI tools.

The full report explores these themes across three chapters and covers the views of all respondents. You can read a summary of the academic leaders' views here.



## Online survey



# Highlights

Awareness of AI tools is high among academic leaders, with almost all familiar with the technology. Most have already used AI, many for work purposes, and most of those who have not yet used AI expect to do so in the coming years.

#### 96% 🛑

Have heard of AI (including GenAI)

#### 60%

Have used AI

#### 38%

Have used it for work purposes

#### 14%

Are very familiar with AI and have used it a lot

## 77%

Of those who do not yet use AI expect to do so in two to five years

### 43%

Of those who have not used AI cite a lack of time as the reason

Academic leaders have a generally positive perception

**of AI**, with most expecting a major impact as a result of the technology. They believe it will help...

#### 98%

Change the way students are taught and study in universities and medical schools

#### 94% 🛑

Accelerate knowledge discovery

## 92%

Rapidly increase the volume of scholarly and medical research

#### 80%

Have a transformative or significant impact on their area of work

## 46%

Be a welcome advancement on their area of work

## 90%

They believe AI could...

Be used for misinformation

84% Cause critical errors or mishaps

80%

Erode critical thinking skills

**Specific actions can help increase trust and comfort,** and by taking and communicating them, providers of AI tools can support academic leaders in establishing guidelines and best practice and planning for the future.

Academic leaders are concerned about misinformation

points of attention for developers and institutions.

and lack of preparedness among other areas, highlighting

#### 84%

Expect to be told whether the tools they are using depend on generative AI

### 58%

Say training an AI model to be factually accurate, moral and not harmful (safety) would strongly increase their trust in that tool

#### 37% 🥌

Consider the lack of regulation or governance a topthree disadvantage

## 36%

Say robust governance on data would increase their comfort using an AI tool

## Chapter 1: The current GenAI landscape



"We know AI is here... and will integrate into every facet of work... How we create research capabilities and support systems from a research standpoint is something that is deeply on my mind and is very important."

Academic Leader, the Americas<sup>4</sup>

- 96% of academic leaders are familiar with AI (including GenAI)
- 60% have used AI and 38% have used it for work purposes
- > 14% are very familiar with AI, i.e. they've used it a lot
- 91% have heard of ChatGPT, making it by far the most well-known AI product
- > 31% have used ChatGPT for work purposes
- 43% of those who have not used AI cite a lack of time as the reason
- 80% believe AI (including GenAI) will have a transformative or significant impact on their area of work
- 46% of academic leaders say AI is a welcome advancement

AI is a priority for academic leaders, and almost all of those who responded to the survey are familiar with AI (including GenAI). Most academic leaders are already using AI, and of those who have not yet tried it, most expect to do so in the coming two to five years. Some of the reasons for not having tried AI include a lack of time, not having found the right tool and concerns about AI.Perceptions of AI

## Awareness of GenAI tools

Awareness of AI is high among academic leaders globally (96%), ranging from 93% in South America to 98% in the Middle East and Africa. Globally, 14% of academic leaders are very familiar with AI, having used it a lot – this is in line with results from all researchers.

Echoing the trend among other groups, the overwhelming majority (91%) of academic leaders are familiar with ChatGPT, making it the most well-known AI product by a large margin. Familiarity ranges from 84% in South America to 93% in North America. Next in line in terms of familiarity are Google's Bard (at 43%), Bing Chat (40%), Google's Gemini (26%) and MS Copilot (in Word, Excel, PowerPoint) (26%).

Use of these tools is in line with that of all researchers: almost one-third (31%) of academic leaders have used ChatGPT for work purposes, higher than the global average across all ~3,000 respondents answering the survey including clinicians (25%). Other tools used for work-purposes are those with which leaders are most familiar, including Bard and Bing Chat, both at 9%.





Fig 1. Questions: To what extent are you familiar with AI (including GenAI)? n=523

Have you used an AI (including GenAI) product or an AI feature on a product you use regularly? n=502



#### AI products familiarity and usage

	% Academic Leaders (n=502)	% Asia Pacific (n=149)	% Europe (n=168)	% North America (n=74)	% South America (n=45)	% Middle East & Africa (n=60)	
ChatGPT	91	<b>93</b> SA, MEA	89	93	84	85	
	31	36 MEA	27	34 MEA	27	20	
Bard (Google)	43	45 EU	35	49 EU	38	53 EU	
	9	11	6	12 EU	7	8	
	40	44 EU	32	41	40	38	
Bing Chat	9	11 MEA	7	9	4	3	
	26	23	30	35 AP, SA	18	23	
Gemini (Google)	6	7	5	7	4	3	
ChatGPT MS Copilot	26	24	21	30	44 AP, EU, MEA ●	22	
(in Word, Excel, PPT)	5	5	5	8 SA, MEA	0	2	
ChatPDE ai	21	22 EU	14	23 EU	22	25 EU	
ChatPDF.di	3	3	3	4	4	3	
Llama (Meta AI)	12	13 SA	9	18 EU, SA	2	12 SA	
	2	3	2	1	0	0	
Claude (Anthronia)	8	9 MEA	5	9 MEA	7	2	
	1	1	1	1	2	0	
% heard of it       Significantly higher than Region (indicated by first two letters e.g. AP = APAC)         % used it for work       Asia Pacific = AP       North America = NA       Mid. East & Africa = MEA         • Significantly higher or lower than total       Europe = EU       South America = SA							

Fig 2. Question: Which of these AI products, if any, have you heard of before today? Only the top 8 products are shown.

**Question:** Which, if any, AI products have you used for work purposes? Shown only to those aware of each tool, so the base is variable, however the percentage shown is a proportion of the total base size, 502.



## Perceptions of AI

Globally, 46% of academic leaders say AI is a welcome advancement, while 44% can see both potential and drawbacks. Very few, just 1%, see it as wholly negative. Sentiment is most positive in APAC, where 54% see AI as a welcome advancement, and least in Europe, at 36%. However, most academic leaders (83%) have at least some concerns about the ethical implications of AI in their area of work. The proportion of leaders with fundamental concerns is highest in South America and Europe (18% and 17% respectively).



## Key Findings - Insights: Academic leader attitudes toward AI

## AI in practice

Of the 96% of academic leaders who have heard of AI, 60% have used it, 38% for a specific work-related purpose. The percentage of those who have used AI for work is highest in North America (46%) and lowest in the Middle East and Africa (25%). The opposite is true for personal use, with academic leaders in the Middle East and Africa most likely (32%) and those in North America least likely (12%) to have used AI only for a non-work purpose.

About two in five (43%) academic leaders who have yet to work with AI give a lack of time to experiment with tools as the reason why. Other significant reasons include not having found a tool that meets their needs (28%) and not having a subscription (25%). Although not statistically significant, it is notable that almost one-third (32%) of academic leaders in North America say their lack of AI use is due to concerns about the technology, while globally this is less than a quarter (23%).



	% Academic Leaders (n=207)	% Asia Pacific (n=52)	% Europe (n=74)	% North America (n=31)	% South America (n=20)	% Middle East & Africa (n=26)
I haven't had time to investigate/ experiment with such tools	43	42	47	52		
I haven't found a tool yet that meets my needs	28	33	28	29	Too few response	s to break out
I don't yet have a subscription/login to such tools	25	21	34 NA	16		
I have concerns about such tools (e.g. the risks have not yet been adequately mitigated)	23	21	19	32		
I don't know of any such tools	10	8	8	16		
There are restrictions on my use of such tools (from my organisation, funder, publisher etc)	9	8	9	6		
Other (please specify)	2	2	3	6		
Don't know/not sure	2	2	1	3		
• Significantly higher or lower that	n total Significantly hi Asia Pacific = A Europe = EU	igher than Region (indicat AP North America = NA South America = SA	ed by first two letters e.g. AP Mid. East & Africa = MEA	= APAC)		

#### Reasons for not using AI products or AI features

Fig 4. Question: Which of the following describes why you haven't used an AI product or AI feature?

## Chapter 2: A future lens on AI



- > 94% think AI will accelerate knowledge discovery
- 92% think AI will rapidly increase the volume of scholarly and medical research
- 92% believe AI will provide cost savings to institutions and businesses
- 80% believe AI (including GenAI) will have a transformative or significant impact on their area of work
- 77% of those not using AI expect to use it in the next two to five years

Academic leaders recognize the potential impact of AI and GenAI on their institutions, including on education and research, with four-fifths believing the technology will have a transformative or significant impact on their work. The effects that academic leaders foresee include AI rapidly increasing the volume of scholarly and medical research and accelerating knowledge discovery. Although perception is mainly positive or neutral, academic leaders also have some major concerns about the technology.



## Perceived impact and benefits

"[AI] can ... lead to the falsification of research results, but it can also give organizations a significant edge in terms of back-of-house efficiency. A lot of universities will be scrambling now to make sure that they're taking full advantage of those efficiencies, so they can invest the money saved elsewhere."

Academic Leader, APAC<sup>4</sup>

Academic leaders' opinions about AI – including the benefits and drawbacks of the technology – will likely impact the decisions they make about its use in their institutions, so it's important to understand these perceptions. The generally positive attitude we see among academic leaders toward AI becomes clearer when looking at the positive impacts they expect in the next two to five years.

<ul><li>% Not at all</li><li>% To some extent</li></ul>	% Academic Leaders (n=487)	% Asia Pacific (n=148)	% Europe (n=164)	% North America (n=71)	% South America (n=44)	% Middle East & Africa (n=59)	
Change the way students are taught and study in universit and medical schools	ies 2 98	1 99	EU 5 95	3 97	0 100	4 96	
Accelerate knowledge discovery	6 94	4 96	EU 10 90	7 93	0 100	7 93	
Increase your work efficiency	8 92	3 97	EU MEA 13 87	17 83	5 95	10 90	I
Rapidly increase the volume of scholarly and medical research	8 92	7 93	8 92	15 85	10 90	2 98	EU NA SA
Provide cost savings to institutions and businesses	8 92	6 94	EU 15 85	8 92	5 95	7 93	
Increase your work quality	11 89	5 95	EU NA 18 82	25 75	7 93	8 92	EU NA
Free your time for higher value work	12 88	6 94	EU NA 22 78	18 82	13 88	10 90	EU
Increase your work consistency	14 86	6 94	EU NA SA 26 74	28 72	16 84	7 93	EU NA
Increase collaboration	19 81	8 92	EU MEA 38 62	27 73	8 93 <sub>M</sub>	EU NA EA 22 78	EU
• • Significantly higher or l	ower than total Signi Asia Euro	ificantly higher than Regi Pacific = AP North Am pe = EU South Am	ion (indicated by first two lette nerica = NA Mid. East & Afric nerica = SA	ers e.g. AP = APAC) a = MEA			

#### Positive impact of AI in various areas over the next two to five years

Fig 5. Question: Thinking about the impact AI will have on society and your work, to what extent do you think over the next two to five years it will...? Scale: A great extent, some extent, not at all (bottom box and top two boxes, excl. don't know).



**Teaching and learning:** Almost all (98%) academic leaders expect AI to change the way students are taught and study at university in the next two to five years, reflecting the current widespread development of guidelines for AI in education. Similarly, 96% of academic leaders see benefit in AI for teaching and lecturing activities.

**Research:** Alongside education, research is a core function of an academic institution, so academic leaders' perceptions of the benefit and impact of AI on research has a bearing on its future use. Most (92%) academic leaders expect AI to rapidly increase the volume of scholarly and medical research and 96% see benefit for research-related activities. The majority (92%) of academic leaders also think that AI will bring some benefit to monitoring the impact of research. They are comparatively less optimistic about funding-related activities, though, with 14% expecting no benefit.

**Productivity and quality:** Academic leaders believe AI will have a positive impact on work efficiency (92%) and freeing up time for higher value work (88%). Most (92%) also believe AI will provide their institution with cost savings. Academic leaders also see many benefits to the quality of research, including improving work consistency (86%), increasing collaboration (81%) and increasing work quality (89%).

Although academic leaders in North America and Europe see the benefits of AI, it is notable that the proportions who see benefit in these regions are consistently lower than those in other regions.

#### Perceived benefits of AI in different areas

<ul><li>% No benefit</li><li>% Some benefit</li></ul>	% Academic Leaders (n=479)
Data Science activities	2 98
Research related activities	4 96
Teaching/Lecturing activities	4 96
Using scientific content (e.g. keeping up-to-date)	5 95
Publication and monitoring impact of research (e.g. authoring or reviewing)	8 92
Funding related activities	14 86

**Fig 6. Question:** Thinking about the general areas of activity you need to complete, how much benefit, if any, do you believe the assistance of AI would bring? Scale: A lot of benefit, some benefit, no benefit, don't know/not applicable (bottom box and top two boxes, excl. don't know)

## Perceived drawbacks

"[AI] would allow our researchers to automate certain tasks that are currently manual... The negative is it could produce vast quantities of dubious research and inability to tell what's real from what's fake in all manner of technical output... We are at the beginning of this change and we have got to learn how to do this."

Academic Leader, the Americas<sup>4</sup>

As academic leaders work on understanding and addressing the risks involved with AI and GenAI in education and research, their own concerns and beliefs about the potential negative impacts of the technology play a role in the decisions they make about their institutions. In the View from the top report, through qualitative interviews academic leaders shared their concerns, including that "an overreliance on the technology could lead to dubious research results and intellectual property misuse."<sup>4</sup>

The current study reflects many such concerns, centered around institutions' priority areas of education and research, with a focus on governance.





#### Negative impact of AI in various areas over the next two to five years

**Fig 7. Question:** Thinking about the impact AI will have on society and your work, to what extent do you think over the next 2 to 5 years it will...? Scale: A great extent, some extent, not at all (bottom box and top two boxes, excl. don't know).

Perceived top-three disadvantages of A	AI (of those who have concerns)
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	% Academic Leaders (n=417)	% Asia Pacific % Europe (n=119) (n=143)		% North America (n=67)	% South America (n=39)	% Middle East & Africa (n=47)	
Unable to replace human creativity, judgment and/or empathy	39	36	41	39	38	47	
Does not have enough regulation or governance	37	41 NA	32	25	46 NA	40 NA	
Lack of accountability over the use of generative AI outputs	32	35	27	31	33	30	
Outputs can be discriminatory or biased	26	23	35 AP MEA	31	21	19	
Outputs are factually incorrect and/or non-sensical (hallucinations)	22	20 SA	24 SA	37 EU SA MEA	5 •	13	
Too dependent on outdated data and/or information	21	24	21	19	18	13	
Lack of relevant expertise within organisation	19	21 NA	17 NA	6	26 NA	28 NA	
Risks homogenizing culture via its use of global models	18	19	23 NA SA	12	10	19	
The logic behind an output is not well described	17	16	20	18	13	13	
Lack of permission to use data or information AI tools are trained on	17	15	15	25 AP EU • SA	10	21	
Requires a lot of computer processing power	10	10	13	7	5	11	
Generative AI outputs are not confidential	10	9	6	10	18 EU	15 EU	
Generative AI inputs/prompts are not confidential	10	12 EU	3	7	21 EU NA	9	
Generative AI discriminates against non-native English speakers	7	6	8	4	10	9	
Don't know/not sure	2	1	1	4	3	0	
• • Significantly higher or lov	<ul> <li>Significantly higher or lower than total</li> <li>Significantly higher than Region (indicated by first two letters e.g. AP = APAC)</li> <li>Asia Pacific = AP</li> <li>North America = NA</li> <li>Mid. East &amp; Africa = MEA</li> <li>Europe = EU</li> <li>South America = SA</li> </ul>						

Fig 8. Question: You mentioned that you had concerns, what do you think are the top three disadvantages of AI? Select up to three.

**Reliability:** Most (90%) academic leaders believe AI could be used for misinformation, and 84% are concerned the technology will cause critical errors or mishaps. In both cases, concern is highest in North America (97%) (see figure 7). Hallucinations are a risk of GenAI tools, and 22% of academic leaders rank this as a top-three disadvantage of the technology. Similarly, 21% of academic leaders consider AI's dependence on outdated information a topthree disadvantage. **Immaturity:** Globally, 37% of academic leaders say the lack of governance around AI is a top-three disadvantage, highlighting the early stage of the technology's use in the sector. Many (32%) also rate the lack of accountability over the use of outputs as a top-three disadvantage. Almost one-fifth (19%) consider their institution's lack of relevant expertise to be a top-three disadvantage.

**Human impact:** Four-fifths (80%) of academic leaders believe AI could disrupt society, such as through mass unemployment. They also have concerns about the impact of its use, with 80% predicting it could erode human critical thinking skills (see figure 7), and 39% ranking its inability to replace human creativity, judgment or empathy as a top-three disadvantage. Lower priority disadvantages include the risk of homogenizing culture (18%) and discrimination against non-native English speakers (7%)



#### Expectations of AI

## Expectations

As noted, academic leaders feel relatively underprepared to meet the high priority challenge of AI governance.<sup>4</sup> Understanding their expectations can help close this gap. Despite their concerns, it's clear the technology is growing: more than three-quarters (77%) of academic leaders who do not yet use AI expect to do so in the coming two to five years, and only 4% say they won't. Expectation of using AI is highest in Asia Pacific (85%), while expectation of not using it is higher in Europe (9%).

Many of academic leaders' top expectations of AI in the coming two to five years are focused on transparency and choice. For example, 84% of academic leaders say they expect to be informed whether the tools they use depend on AI, and 81% whether the peer-recommendations they receive used AI.

Reflecting concerns about accuracy, academic leaders also expect AI results to be based solely on high-quality trusted sources (73%) and to be paired with human expertise (82%).



Fig 9. Question: Thinking about the use of generative AI in your area of work, how much do you agree or disagree with the following either presently or in the near future? By near future, we mean in the next two to five years.



#### Access preference for AI tools



Fig 10. Question: Would you prefer any generative AI functionality included in a product you use already to be ...?

About one-third of academic leaders (32%) are unaware of any institutional plans to prepare for AI usage. The most common preparation is setting up a community of practice, with 22% reporting this globally, followed by building a plan/protocol to evaluate the purchase of tools that include AI (18%) and providing ethics courses (18%). Globally, 7% report institutional plans to appoint new leadership around AI. The biggest institutional barrier to AI usage academic leaders report is a lack of budget to pay for AI products or features (28%). Budget is a significantly bigger factor in South America (51%) and the Middle East and Africa (48%), and less so in North America (19%). Academic leaders report several restrictions to AI usage from their institutions, including being prohibited from uploading confidential information into public generative AI platforms (22%) and being prohibited from using it for certain purposes (15%). Only 1% are prohibited from using AI for any purpose.

## Chapter 3: Shaping an AI-driven future



- Most academic leaders are concerned about misinformation (90%), critical errors or mishaps (84%) and the erosion of critical thinking skills (80%)
- 58% say training an AI model to be factually accurate, moral and not harmful (safety) would strongly increase their trust in that tool
- 37% consider the lack of regulation or governance a top-three disadvantage
- 36% say that knowing the information the model uses is up to date would increase their comfort using an AI tool

Combined with insights into academic leaders' concerns and expectations, an understanding of the factors affecting their trust and comfort in AI tools can help establish their use for positive future impact. Overall, comfort and trust factors reflect academic leaders' concerns, namely around accuracy, transparency, security and governance.

# Factors impacting trust in and comfort using GenAI tools

"AI is going to change everything about how we work at universities, particularly in the teaching but also, in the research. I don't think we have begun to scratch the surface of what that looks like." Top-three factors were selected for increasing comfort using tools dependent on AI. The AI model using up-todate information is ranked highest. Academic leaders in North and South America more likely to say that having accountability through human oversight would increase their comfort in that tool than seen globally.



Academic Leader, EMEA<sup>4</sup>

	% Academic Leaders (n=502)	% Asia Pacific (n=149)	%   (n	Europe =168)	% North (n=2	America 74)	% South A (n=4	imerica 5)	% Middl & Africa	e East (n=60)
That the information the model uses is up-to-date	36	34	35		46	AP SA	24		42	SA
That there is accountability through human oversight	34	30	33		45	AP EU MEA	53	AP EU MEA	30	
Robust governance on data and information used to train the model	34	38	30		32		33		27	
That the way the solution works can be, and is, explained	30	33 NA	30	NA	19	•	33	NA	23	
That actions have been taken to prevent unfair bias	29	25	30		42	AP EU ● MEA	36		23	
That privacy is respected on user inputs	29	30	26		22		38	NA	30	
That the real-world impact on people has been considered	28	26	29		27		31		37	
That privacy is respected on outputs generated by the model	25	27	23		18		31	NA	30	NA
Don't know/not sure	8	7 SA	8	SA	15	AP SA MEA	0	•	3	
None of the above	2	1	4	NA	0		0		3	
<ul> <li>Significantly higher or lower than total</li> <li>Significantly higher than Region (indicated by first two letters e.g. AP = APAC)</li> <li>Asia Pacific = AP</li> <li>North America = NA</li> <li>Mid. East &amp; Africa = MEA</li> <li>Europe = EU</li> <li>South America = SA</li> </ul>										

Fig 11. Question: Which information areas about a tool's dependency on generative AI would most increase your comfort in using that tool? Select up to three.

Factors that increase academic leaders' comfort in using AI and GenAI tools are those that address their biggest concerns.

**Quality and accuracy:** More than one-third (36%) of corporate researchers rank knowing the information the model uses is up to date as one of their top-three comfort factors, and just under one-third (30%) say an explanation of how the solution worked would make them more comfortable. A similar proportion (29%) say actions being taken to prevent unfair bias would be a top-three comfort factor in using AI. **Governance and accountability:** 34% consider accountability through human oversight as a top-three comfort factor. Similarly, 34% rank robust governance on data and information used to train the model.

**Privacy:** For over one-quarter of academic leaders, privacy is a top-three factor in increasing their comfort using AI tools, specifically that privacy is respected on user inputs (29%) and outputs generated (25%).

**People:** 28% of academic leaders say considering the real-world impact of AI would be a top-three factor in increasing their comfort using an AI tool, and 29% rank actions having been taken to prevent unfair bias in their top-three.

## Actions for a GenAI-powered future

When asked about the challenges they will face in the coming 12 months, academic leaders identified AI as a priority.<sup>4</sup> The results shared in this report set out their awareness and use of AI, as well as their perceptions, concerns and expectations of the technology. Applying these insights when developing tools will support academic leaders as they prepare for an AI-powered future.

Based on the survey findings and secondary research, we recommend actions for technology developers and institutions.

### GenAI technology developers can:

- Enhance accuracy and reliability
- Increase transparency
- Strengthen safety and security

#### Institutions employing researchers and clinicians can:

- Establish policies and plans and communicate them clearly
- Build governance and expertise
- Provide training and capacity
- Ensure access



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## Notes

For a detailed methodology, including sample bases by region/country, see the appendices of the full report.

### https://tinyurl.com/attitudes-ai

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Elsevier August 2024