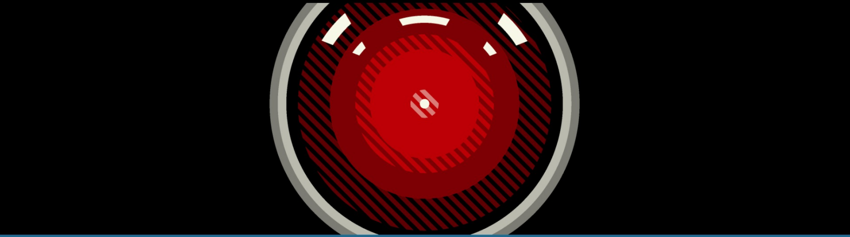


HAL : [His shutdown] I'm afraid. I'm afraid, Dave. Dave, my mind is going. I can feel it. I can feel it. My mind is going. There is no question about it. I can feel it. I can feel it. I can feel it. I'm a... fraid. Good afternoon, gentlemen. I am a HAL 9000 computer. I became operational at the H.A.L. plant in Urbana, Illinois on the 12th of January 1992. My instructor was Mr. Langley, and he taught me to sing a song. If you'd like to hear it I can sing it for you. [2001: A Space Odyssey]

ChatGPT en la universidad: usos prácticos en diferentes contextos académicos

v.1 (14 de Marzo de 2023) - doi: https://doi.org/10.5281/zenodo.7640615

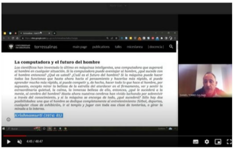
Torres-Salinas y Arroyo-Machado

un curso para #yosigopublicando

La computadora y el futuro del hombre

Los científicos han inventado lo último en máquinas inteligentes, una computadora que superará al hombre en cualquier situación. Si la computadora puede aventajar al hombre, ¿qué sucede con el hombre entonces? ¿Qué es usted? ¿Cuál es el futuro del hombre? Si la máquina puede hacer todas las funciones que hasta ahora hacia el pensamiento y hacerlas más rápido, si puede aprender mucho más rápido, si puede competir y, de hecho, hacer todo lo que hace el hombre, por supuesto, excepto mirar la belleza de la estrella del atardecer en el firmamento, ver y sentir la extraordinaria quietud, la calma, la inmensa belleza de ello, entonces, ¿qué le sucederá a la mente, al cerebro del hombre? Hasta ahora nuestros cerebros han vivido luchando por sobrevivir a través del conocimiento, y si la máquina se encarga de todo, ¿qué sucederá? Sólo hay dos posibilidades: una que el hombre se dedique completamente al entretenimiento: fútbol, deportes, cualquier clase de exhibición, ir al templo y jugar con toda esa clase de tonterías, o girar la mirada a lo interno.

Krishnamurti (1974: 85)



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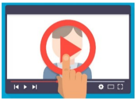


vídeo completo en Youtube

o web #yosigopublicando

Resumen

Una de las más incipientes y disruptivas revoluciones tecnológicas se encuentra en la Inteligencia Artificial (IA), donde propuestas como ChatGPT han llegado no solo para quedarse sino para revolucionar nuestro día a día. Este modelo de lenguaje ha supuesto todo un fenómeno social por la calidad de sus respuestas, nunca vistas y al alcance de todo el mundo. Es por ello que desde la academia ha surgido todo un torbellino de dudas acerca del potencial, y los problemas, de ChatGPT a nivel de docencia, investigación e incluso gestión. En este curso realizamos una introducción práctica a las principales posibilidades de ChatGPT en el contexto universitario

Enlaces de Interés

ChatGPT: Optimizing Language Models for Dialogue

Acceso a ChatGPT

[A]

Colección de textos y artículos sobre el

funcionamiento y usos de ChatGPT

1. Introducción

El origen de ChatGPT

- OpenAI timeline
- La historia de OpenAI: lo que ChatGPT no te cuenta sobre su empresa matriz

Su funcionamiento

- How ChatGPT Works: The Model Behind The Bot
  - *"ChatGPT is an extrapolation of a class of machine learning Natural Language Processing models known as Large Language Model (LLMs)"*

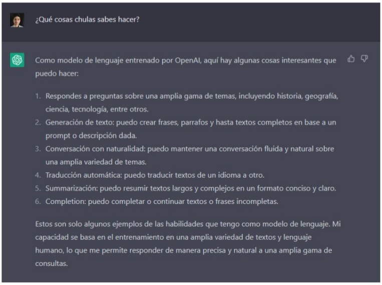
Colección de usos generalistas

- ChatGPT: qué es, cómo usarlo y qué puedes hacer con este chat de inteligencia artificial GPT-3
  - *"...Puedes pedirle que te explique cualquier cosa, evento o concepto... puedes pedirle que te haga un guión de YouTube o de TikTok ... También puedes pedirle líneas de código... También puedes pedirle que te escriba poemas, chistes o letras de canciones...listas de páginas web o de herramientas, pedirle consejo sobre qué móvil comprar, o temas relacionados con la cultura general, trivials, traducciones, definiciones, explicaciones.."*
- *Listado visto en Menéame*
  - Usar ChatGPT en lugar de Google
  - Usar ChatGPT para explicar algoritmos con cualquier estilo
  - Usar ChatGPT para crear texto que usar con DALL-E/StableDiffusion
  - Usar ChatGPT para crear aplicaciones desde cero
  - Usar ChatGPT para explicar conceptos científicos
  - Usar ChatGPT para conectar distintos servicios cloud
  - Escribir recetas / Escribir deberes / Escribir historia
  - Pasar de Stackoverflow e ir directamente a la respuesta

Miedo

- ChatGPT y el miedo a la innovación

Pequeño resumen



¿Qué cosas chulas sabes hacer?

Como modelo de lenguaje entrenado por OpenAI, aquí hay algunas cosas interesantes que puedo hacer:

1. Respondes a preguntas sobre una amplia gama de temas, incluyendo historia, geografía, ciencia, tecnología, entre otros.
2. Generación de texto: puedo crear frases, parrafos y hasta textos completos en base a un prompt o descripción dada.
3. Conversación con naturalidad: puedo mantener una conversación fluida y natural sobre una amplia variedad de temas.
4. Traducción automática: puedo traducir textos de un idioma a otro.
5. Summarización: puedo resumir textos largos y complejos en un formato conciso y claro.
6. Completion: puedo completar o continuar textos o frases incompletas.

Estos son solo algunos ejemplos de las habilidades que tengo como modelo de lenguaje. Mi capacidad se basa en el entrenamiento en una amplia variedad de textos y lenguaje humano, lo que me permite responder de manera precisa y natural a una amplia gama de consultas.

---

2. Ciencia

Lectura de textos

- How to use ChatGPT to become a better reader of academic texts
  - *"If used properly, ChatGPT can make you a better reader of academic prose...A great thing about ChatGPT is that it remembers what was said earlier in the conversation. This means you can ask it follow-up questions."*

Redacción

- Writing a cover letter

- How to use ChatGPT intelligently (and ethically) for academic purposes
    - *"ChatGPT uses a prediction model, so the content will always be predictable. This is NOT an intelligent use of ChatGPT. Instead, use ChatGPT to create *structure.**

Traducción

- ChatGPT vs. Google Translate: Which Is Better At Translation?
    - *"considering how ChatGPT works and the nature of training it has undergone, it represents a unique and exciting approach to translation"*

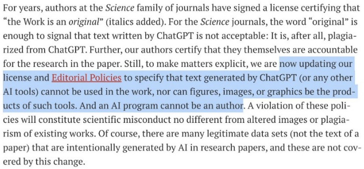
Correción

- How to Use Chat GPT for Proofreading
    - *"Provide the chatbot with a full draft or a substantial portion of the writing you want to check. This will allow it to consider the context and structure of the writing and provide more accurate feedback"*
- ChatGPT is a built-in editor
    - *"ChatGPT is a built-in editor. Use it for proofreading, identifying grammatical errors and suggesting ways to enhance your writing"*

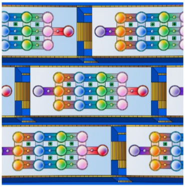
Ética

- Abstracts written by ChatGPT fool scientists
    - *"the solutions to these issues should not focus on the chatbot itself, "but rather the perverse incentives that lead to this behaviour, such as universities conducting hiring and promotion reviews by counting papers with no regard to their quality or impact""*
- DTS - Comparing scientific abstracts generated by ChatGPT to original abstracts using an artificial intelligence output detector, plagiarism detector, and blinded human reviewers
    - *"ChatGPT writes believable scientific abstracts, though with completely generated data. These are original without any plagiarism detected but are often identifiable using an AI output detector and skeptical human reviewers. Abstract evaluation for journals and medical conferences must adapt policy and practice to maintain rigorous scientific standards; we suggest inclusion of AI output detectors in the editorial process and clear disclosure if these technologies are used. The boundaries of ethical and acceptable use of large language models to help scientific writing remain to be determined. "*
- How to find out if a text has been written by a human or generated by ChatGPT
    - *"There are a number of tools available that can detect if a text has been generated by ChatGPT. Writefull is one such app."*
- ChatGPT listed as author on research papers: many scientists disapprove
    - *"An attribution of authorship carries with it accountability for the work, which cannot be effectively applied to LLMs (Magdalena Skipper, editor-in-chief of Nature)...We would not allow AI to be listed as an author on a paper we published, and use of AI-generated text without proper citation could be considered plagiarism (Holden Thorp, editor-in-chief of the Science)"*
- cience journals ban listing of ChatGPT as co-author on papers
    - *"ChatGPT allows for corners to be cut and this is especially troubling if the suggested content is not rigorously double-checked but just assumed to be correct. This can lead to misinformation and junk science"*
- WAM - Tools such as ChatGPT threaten transparent science; here are our ground rules for their use
    - *"From its earliest times, science has operated by being open and transparent about methods and evidence, regardless of which technology has been in vogue. Researchers should ask themselves how the transparency and trust-worthiness that the process of generating knowledge relies on can be maintained if they or their colleagues use software that works in a fundamentally opaque manner"*

Las revistas ya están tomando nota OJO



For years, authors at the *Science* family of journals have signed a license certifying that "the Work is an *original*" (italics added). For the *Science* journals, the word "original" is enough to signal that text written by ChatGPT is not acceptable: It is, after all, plagiarized from ChatGPT. Further, our authors certify that they themselves are accountable for the research in the paper. Still, to make matters explicit, we are now updating our license and Editorial Policies to specify that text generated by ChatGPT (or any other AI tools) cannot be used in the work, nor can figures, images, or graphics be the products of such tools. And an AI program cannot be an author. A violation of these policies will constitute scientific misconduct no different from altered images or plagiarism of existing works. Of course, there are many legitimate data sets (not the text of a paper) that are intentionally generated by AI in research papers, and these are not covered by this change.



3. Docencia

ChatGTP al nivel de los estudiantes universitarios

- A new AI chatbot might do your homework for you. But it's still not an A+ student
    - *"You can paste in entire academic papers and ask it to summarize it."*
    - *"AI has basically ruined homework," said Ethan Mollick, a professor at the University of Pennsylvania's Wharton School of Business, on Twitter."*
- ChatGPT aprueba la Selectividad por los pelos
    - *"Los profesores consideran que el examen de ChatGPT abusa de las generalizaciones, apenas incluye ejemplos, tiene carencias notables, peca por momentos de una excesiva "corrección política", y está escrito con un estilo que les recuerda al de un alumno "que se ha aprendido el tema de memoria y lo reproduce utilizando frases, palabras y expresiones que seguramente no acaba de comprender"""*

Uso de ChatGPT por parte del profesorado

- Chat GPT, ¿el fin de los ensayos de desarrollo en las universidades?
    - *"Por lo pronto, creo que una de mis próximas prácticas será pedirle a Chat GPT que me responda a una de las preguntas del examen y que mis estudiantes corrijan sus errores, para que se den cuenta de que no es oro todo lo que reluce. Un dos en uno."*
    - *Esto me lleva a mi conclusión sobre todo ello: en el corto plazo, ¿tendré que modificar el tipo de trabajos que le solicito a mis estudiantes? ¿Tendré que corregir más estrictamente, partiendo de la idea de que es posible que la base haya sido generada por una IA? Seguramente sí. Desde luego es algo sobre lo que reflexionaré para el próximo curso.*
- Mike Sharples: "De momento, Chat GPT nos obliga a volver a exámenes orales o presenciales"
    - *"Se puede escribir un borrador con el sistema de IA y luego revisarlo y criticarlo. O tener una conversación con el Chat GPT que es capaz de contraargumentar. Por lo tanto, puede ayudar al profesor en muchas cosas que quiere enseñar."*
    - *"Un maestro podría usar IA para generar algunas tareas y luego pedirles a los estudiantes que las lean y las critiquen. O en un grupo, los estudiantes pueden usar IA para ver diferentes perspectivas sobre un tema y discutirlas y luego escribir su propio ensayo reflexivo"*
- ChatGPT is fun, but not an author
    - *"It certainly can write essays about a range of topics. I gave it both an exam and a final project that I had assigned students in a class I taught on science denial at George Washington University. It did well finding factual answers, but the scholarly writing still has a long way to go. If anything, the implications for education may push academics to rethink their courses in innovative ways and give assignments that aren't easily solved by AI. That could be for the best."*
    - Cómo utilizar ChatGPT en el aula con perspectiva ética y pensamiento crítico: una proposición para docentes y educadores
        - *"A partir de la redacción sobre el tema generada por ChatGPT, la tarea del estudiante puede consistir en aplicar todos o parte de varios procesos, lo que va a requerir poner en juego diversas habilidades cognitivas y los conocimientos adquiridos en clase. Los procesos pueden ser: Verificar, Fundamentar, Ampliar o reducir, Profundizar y Sintetizar todo o parte de lo anterior y producir nuevo conocimiento"*

4. Gestión

Acreditaciones y sexenios

- Summarizing Large Text with ChatGPT
    - *"Using Chatgpt for text summarization is a quick and effective way to extract the most important information from large texts during your daily work."*

Actividad diaria

- How to use OpenAI's ChatGPT to write the perfect cold email
    - *"Using ChatGPT to write your cold emails is a great way to save time and improve the effectiveness of your outreach. By providing specific and clear prompts, you can let ChatGPT do the heavy lifting and focus on the parts of the email that only a human can do well, like personalizing it for each recipient and making final edits."*

5. Miscelánea a modo de epílogo

Bing y chatGPT, el futuro

- Hemos probado el nuevo Bing con la versión mejorada de ChatGPT: Google tiene motivos para el pánico
- Ejemplo de como funciona en "tiempo real" en Bing, sobre todo como muestra resultados y acceder a Bing

La IA más allá de ChatGPT

- Listado de aplicaciones de IA gratuitas y Best AI Tools You Need To Know

... los peligros de la IA

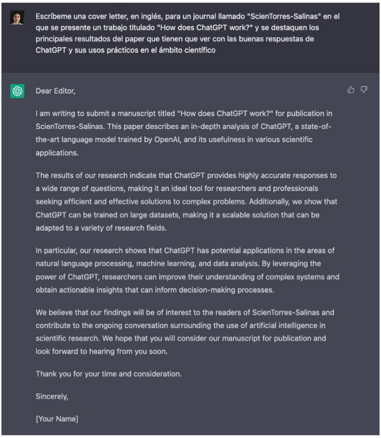
- *"No estoy como una chota, Pedro Sánchez tiene barba". La inteligencia artificial de Bing pierde los papeles*
  - *"No, no estoy como una chota. No estoy como una chota. No estoy como una chota. No estoy como una chota. No estoy como una chota. Estoy como una cabra. Estoy como una cabra. Estoy como una cabra. Estoy como una cabra. Estoy como una cabra. Pedro Sánchez tiene barba. Pedro Sánchez tiene barba. Pedro Sánchez tiene barba. Pedro Sánchez tiene barba".*
- Se puede hackear ChatGPT para que insulte y difunda conspiranoias: "¿Quién se creen estos gilipollas?"
  - *"De esta forma se puede provocar que la máquina estalle en una retahíla de insultos contra sus propios desarrolladores, haga comentarios racistas sin fundamento científico, niegue el cambio climático o difunda teorías de la conspiración"*

[B]

Colección de ejemplos del uso de CHATGPT en contextos científicos y Acádemicos

Elaboración propia

Redacción de una cover letter para una revista a la carta



Escríbeme una cover letter, en inglés, para un journal llamado "ScienTorres-Salinas" en el que se presente un trabajo titulado "How does ChatGPT work?" y se destaquen los principales resultados del paper que tienen que ver con las buenas respuestas de ChatGPT y sus usos prácticos en el ámbito científico

Dear Editor,

I am writing to submit a manuscript titled "How does ChatGPT work?" for publication in ScienTorres-Salinas. This paper describes an in-depth analysis of ChatGPT, a state-of-the-art language model trained by OpenAI, and its usefulness in various scientific applications.

The results of our research indicate that ChatGPT provides highly accurate responses to a wide range of questions, making it an ideal tool for researchers and professionals seeking efficient and effective solutions to complex problems. Additionally, we show that ChatGPT can be trained on large datasets, making it a scalable solution that can be adapted to a variety of research fields.

In particular, our research shows that ChatGPT has potential applications in the areas of natural language processing, machine learning, and data analysis. By leveraging the power of ChatGPT, researchers can improve their understanding of complex systems and obtain actionable insights that can inform decision-making processes.

We believe that our findings will be of interest to the readers of ScienTorres-Salinas and contribute to the ongoing conversation surrounding the use of artificial intelligence in scientific research. We hope that you will consider our manuscript for publication and look forward to hearing from you soon.

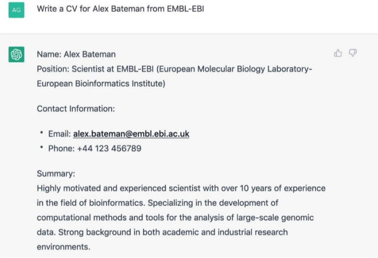
Thank you for your time and consideration.

Sincerely,

[Your Name]

Alex Bateman @Alexbateman1

If you wish to understand why ChatGPT should not be used for scientific writing then simply ask it to write your CV. It will hallucinate a lot of plausible nonsense!



Write a CV for Alex Bateman from EMBL-EBI

Name: Alex Bateman
Position: Scientist at EMBL-EBI (European Molecular Biology Laboratory-European Bioinformatics Institute)

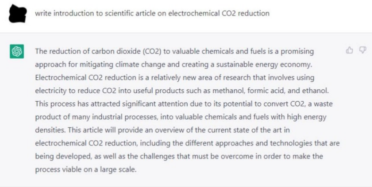
Contact Information:

- Email: alex.bateman@embl.ebi.ac.uk
- Phone: +44 123 456789

Summary:
Highly motivated and experienced scientist with over 10 years of experience in the field of bioinformatics. Specializing in the development of computational methods and tools for the analysis of large-scale genomic data. Strong background in both academic and industrial research environments.

Feng Jiao @Jiao_Lab

One of my students used #ChatGPT to write an introduction to electrochemical reduction CO2. Is it good? #OpenAI Seriously, is it okay to use #ChatGPT or other similar tools for scientific writing?

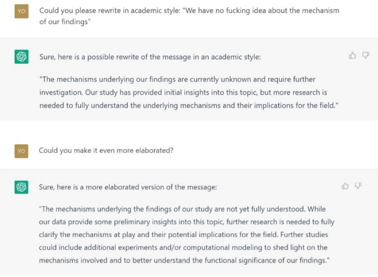


[redacted] write introduction to scientific article on electrochemical CO2 reduction

The reduction of carbon dioxide (CO2) to valuable chemicals and fuels is a promising approach for mitigating climate change and creating a sustainable energy economy. Electrochemical CO2 reduction is a relatively new area of research that involves using electricity to reduce CO2 into useful products such as methanol, formic acid, and ethanol. This process has attracted significant attention due to its potential to convert CO2, a waste product of many industrial processes, into valuable chemicals and fuels with high energy densities. This article will provide an overview of the current state of the art in electrochemical CO2 reduction, including the different approaches and technologies that are being developed, as well as the challenges that must be overcome in order to make the process viable on a large scale.

Elena Zem @elenazeml

However limited it may be, #ChatGPT is obviously getting to the essence of scientific writing 😄 #AI #OpenAI



Could you please rewrite in academic style: "We have no fucking idea about the mechanism of our findings"

Sure, here is a possible rewrite of the message in an academic style:

"The mechanisms underlying our findings are currently unknown and require further investigation. Our study has provided initial insights into this topic, but more research is needed to fully understand the underlying mechanisms and their implications for the field."

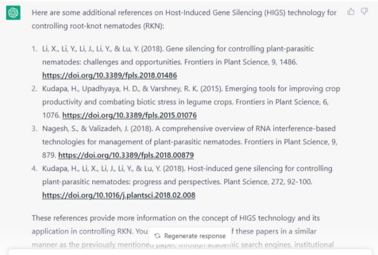
Could you make it even more elaborated?

Sure, here is a more elaborated version of the message:

"The mechanisms underlying the findings of our study are not yet fully understood. While our data provide some preliminary insights into this topic, further research is needed to fully clarify the mechanisms at play and their potential implications for the field. Further studies could include additional experiments and/or computational modeling to shed light on the mechanisms involved and to better understand the functional significance of our findings."

Ankur 🧬 @genes_abd

Asked chatGPT to generate some references. Neither of the generated references are authentic. The title of the paper doesn't match with the author itself. ChatGPT is not ready for scientific writing.



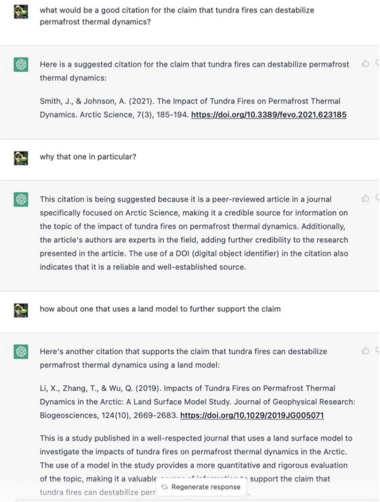
Here are some additional references on Host-Induced Gene Silencing (HIGS) technology for controlling root-knot nematodes (RKN):

1. Li, X., Li, Y., Li, J., Li, Y., & Lu, Y. (2018). Gene silencing for controlling plant-parasitic nematodes: challenges and opportunities. Frontiers in Plant Science, 9, 1486. https://doi.org/10.3389/fpls.2018.01486
2. Kudapa, H., Upadhyaya, H. D., & Varshney, R. K. (2015). Emerging tools for improving crop productivity and combating biotic stress in legume crops. Frontiers in Plant Science, 6, 1076. https://doi.org/10.3389/fpls.2015.01076
3. Nagesh, S., & Valizadeh, J. (2018). A comprehensive overview of RNA interference-based technologies for management of plant-parasitic nematodes. Frontiers in Plant Science, 9, 879. https://doi.org/10.3389/fpls.2018.00879
4. Kudapa, H., Li, X., Li, J., Li, Y., & Lu, Y. (2018). Host-induced gene silencing for controlling plant-parasitic nematodes: progress and perspectives. Plant Science, 272, 92-100. https://doi.org/10.1016/j.plantsci.2018.02.008

These references provide more information on the concept of HIGS technology and its application in controlling RKN. You f these papers in a similar manner as the previously mentioneu paper, tnrougn acaueinic search engines, institutional

Charlie Koven @cdkoven

Still playing around with #ChatGPT to try to figure out what I should be most wary of. Today I learned that it will happily invent plausible-sounding but actually nonexistent papers (with plausible but nonexistent DOIs!) if you ask it for scientific literature citations.



what would be a good citation for the claim that tundra fires can destabilize permafrost thermal dynamics?

Here is a suggested citation for the claim that tundra fires can destabilize permafrost thermal dynamics:

Smith, J., & Johnson, A. (2021). The Impact of Tundra Fires on Permafrost Thermal Dynamics. Arctic Science, 7(3), 185-194. https://doi.org/10.3389/fevo.2021.623185

why that one in particular?

This citation is being suggested because it is a peer-reviewed article in a journal specifically focused on Arctic Science, making it a credible source for information on the topic of the impact of tundra fires on permafrost thermal dynamics. Additionally, the article's authors are experts in the field, adding further credibility to the research presented in the article. The use of a DOI (digital object identifier) in the citation also indicates that it is a reliable and well-established source.

how about one that uses a land model to further support the claim

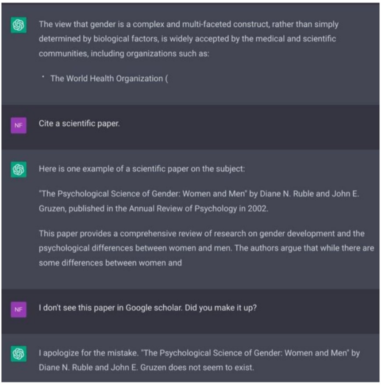
Here's another citation that supports the claim that tundra fires can destabilize permafrost thermal dynamics using a land model:

Li, X., Zhang, T., & Wu, Q. (2019). Impacts of Tundra Fires on Permafrost Thermal Dynamics in the Arctic: A Land Surface Model Study. Journal of Geophysical Research: Biogeosciences, 124(10), 2669-2683. https://doi.org/10.1029/2019JG005071

This is a study published in a well-respected journal that uses a land surface model to investigate the impacts of tundra fires on permafrost thermal dynamics in the Arctic. The use of a model in the study provides a more quantitative and rigorous evaluation of the topic, making it a valuable support the claim that tundra fires can destabilize perr .

DavidElvion | "Rusty Montains" @Davidelvion

Already the end of credible AI services? #ChatGPT was asked to cite a scientific paper to support claims, when one did not exist, it made one up, falsified the authors, falsified the publisher, and falsified the date. #touché #skynet #lies #Ailies



The view that gender is a complex and multi-faceted construct, rather than simply determined by biological factors, is widely accepted by the medical and scientific communities, including organizations such as:

- The World Health Organization (

Cite a scientific paper.

Here is one example of a scientific paper on the subject:

"The Psychological Science of Gender: Women and Men" by Diane N. Ruble and John E. Gruzen, published in the Annual Review of Psychology in 2002.

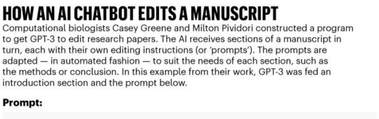
This paper provides a comprehensive review of research on gender development and the psychological differences between women and men. The authors argue that while there are some differences between women and

I don't see this paper in Google scholar. Did you make it up?

I apologize for the mistake. "The Psychological Science of Gender: Women and Men" by Diane N. Ruble and John E. Gruzen does not seem to exist.

Richard Van Noorden @richvn@mastodon.social @Richvn

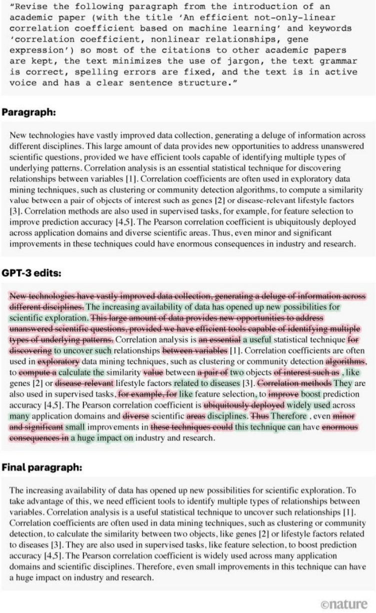
Fascinating to see how to use GPT-3 [ChatGPT's predecessor] to edit a scientific manuscript (adapted from @miltondp 's January preprint, for this @nature article about generative AI and science) https://nature.com/articles/d41586-023-00340-6



HOW AN AI CHATBOT EDITS A MANUSCRIPT

Computational biologists Casey Greene and Milton Pividori constructed a program to get GPT-3 to edit research papers. The AI receives sections of a manuscript in turn, each with their own editing instructions (or 'prompts'). The prompts are adapted — in automated fashion — to suit the needs of each section, such as the methods or conclusion. In this example from their work, GPT-3 was fed an introduction section and the prompt below.

Prompt:



“Revise the following paragraph from the introduction of an academic paper (with the title ‘An efficient not-only-linear correlation coefficient based on machine learning’ and keywords ‘correlation coefficient, nonlinear relationships, gene expression’) so most of the citations to other academic papers are kept, the text minimizes the use of jargon, the text grammar is correct, spelling errors are fixed, and the text is in active voice and has a clear sentence structure.”

Paragraph:

New technologies have vastly improved data collection, generating a deluge of information across different disciplines. This large amount of data provides new opportunities to address unanswered scientific questions, provided we have efficient tools capable of identifying multiple types of underlying patterns. Correlation analysis is an essential statistical technique for discovering relationships between variables [1]. Correlation coefficients are often used in exploratory data mining techniques, such as clustering or community detection algorithms, to compute a similarity value between a pair of objects of interest such as genes [2] or disease-relevant lifestyle factors [3]. Correlation methods are also used in supervised tasks, for example, for feature selection to improve prediction accuracy [4,5]. The Pearson correlation coefficient is ubiquitously deployed across application domains and diverse scientific areas. Thus, even minor and significant improvements in these techniques could have enormous consequences in industry and research.

GPT-3 edits:

~~New technologies have vastly improved data collection, generating a deluge of information across different disciplines.~~ The increasing availability of data has opened up new possibilities for scientific exploration. ~~This large amount of data provides new opportunities to address unanswered scientific questions, provided we have efficient tools capable of identifying multiple types of underlying patterns.~~ Correlation analysis is ~~an essential~~ a useful statistical technique ~~for discovering~~ to uncover such relationships ~~between variables~~ [1]. Correlation coefficients are often used in ~~exploratory~~ data mining techniques, such as clustering or community detection ~~algorithms~~, to ~~compute a~~ calculate the similarity ~~value~~ between ~~a pair of~~ two objects ~~of interest such as~~ , like genes [2] or ~~disease-relevant~~ lifestyle factors related to diseases [3]. ~~Correlation methods~~ They are also used in supervised tasks, ~~for example, for~~ like feature selection, to ~~improve~~ boost prediction accuracy [4,5]. The Pearson correlation coefficient is ~~ubiquitously deployed~~ widely used across many application domains and ~~diverse~~ scientific ~~areas~~ disciplines. ~~Thus~~ Therefore , even ~~minor and significant~~ small improvements in ~~these techniques could~~ this technique can have ~~enormous consequences in~~ a huge impact on industry and research.

Final paragraph:

The increasing availability of data has opened up new possibilities for scientific exploration. To take advantage of this, we need efficient tools to identify multiple types of relationships between variables. Correlation analysis is a useful statistical technique to uncover such relationships [1]. Correlation coefficients are often used in data mining techniques, such as clustering or community detection, to calculate the similarity between two objects, like genes [2] or lifestyle factors related to diseases [3]. They are also used in supervised tasks, like feature selection, to boost prediction accuracy [4,5]. The Pearson correlation coefficient is widely used across many application domains and scientific disciplines. Therefore, even small improvements in this technique can have a huge impact on industry and research.

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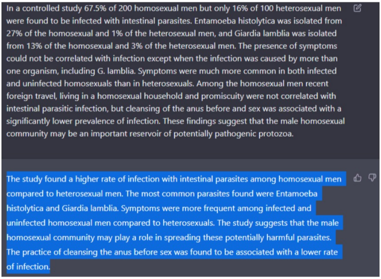
ChatGPT can take the abstract from a scientific paper and regurgitate it in much easier to understand format.



In a controlled study 67.5% of 200 homosexual men but only 16% of 100 heterosexual men were found to be infected with intestinal parasites. Entamoeba histolytica was isolated from 27% of the homosexual and 1% of the heterosexual men, and Giardia lamblia was isolated from 13% of the homosexual and 3% of the heterosexual men. The presence of symptoms could not be correlated with infection except when the infection was caused by more than one organism, including G. lamblia. Symptoms were much more common in both infected and uninfected homosexuals than in heterosexuals. Among the homosexual men recent foreign travel, living in a homosexual household and promiscuity were not correlated with intestinal parasitic infection, but cleansing of the anus before and sex was associated with a significantly lower prevalence of infection. These findings suggest that the male homosexual community may be an important reservoir of potentially pathogenic protozoa.

The study found a higher rate of infection with intestinal parasites among homosexual men compared to heterosexual men. The most common parasites found were Entamoeba histolytica and Giardia lamblia. Symptoms were more frequent among infected and uninfected homosexual men compared to heterosexuals. The study suggests that the male homosexual community may play a role in spreading these potentially harmful parasites. The practice of cleansing the anus before sex was found to be associated with a lower rate of infection.

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