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### **A Career Planning Tool For Chemical Scientists**





**ChemIDP** is an Individual Development Plan designed specifically for graduate students and postdoctoral scholars in the chemical sciences. Through immersive, self-paced activities, users explore potential careers, determine specific skills needed for success, and develop plans to achieve professional goals. **ChemIDP** tracks user progress and input, providing tips and strategies to complete goals and guide career exploration.

https://chemidp.acs.org

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### **Career Consultant Directory**





- ACS Member-exclusive program that allows you to arrange a one-on-one appointment with a certified ACS Career Consultant.
- Consultants provide personalized career advice to ACS Members.
- · Browse our Career Consultant roster and request your one-on-one appointment today!

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## **ACS Scholar Adunoluwa Obisesan**

BS, Massachusetts Institute of Technology, June 2021 (Chemical-biological Engineering, Computer Science & Molecular Biology)



"The ACS Scholars Program provided me with monetary support as well as a valuable network of peers and mentors who have transformed my life and will help me in my future endeavors. The program enabled me to achieve more than I could have ever dreamed. Thank you so much!"

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Preview Content: acs.org/indnl

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### **ACS Career Resources**



#### **Virtual Office Hours**



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### **Personal Career Consultations**



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**Linked** in Learning

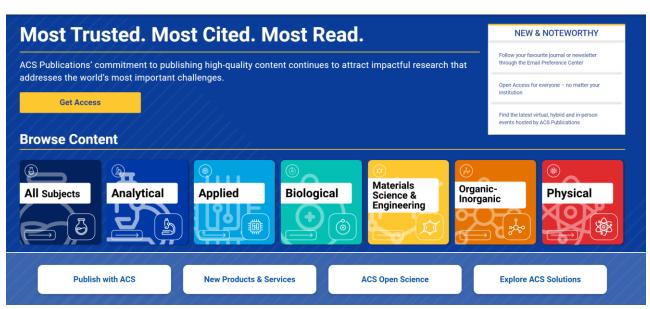


https://www.acs.org/linkedInlearning

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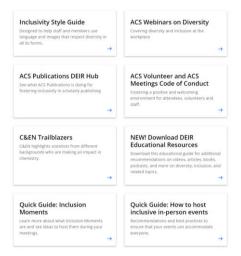


https://pubs.acs.org

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Advancing ACS' Core Value of Diversity, Equity, Inclusion and Respect

#### Resources







https://www.acs.org/diversity

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Thursday, September 28, 2023 | 2-3pm ET

Who Will Win the #ChemNobel?

Co-produced with Chemical & Engineering News



Wednesday, October 4, 2023 | 2-3pm ET

Meet the 2024 ACS President-Elect Candidates

Co-produced with the ACS Younger Chemists Committee



Thursday, October 5, 2023 | 2-3pm ET

The "Ins and Outs" of Networking

Co-produced with ACS Division of Professional Relations and co-produced with ACS Industry Member Programs

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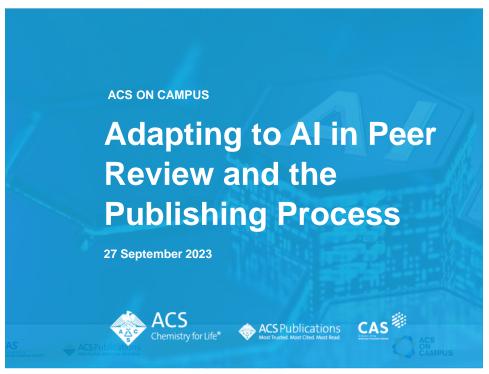
Adapting to Al in Peer Review and the Publishing Process

Sonja Krane, PHD

Executive Editor, ACS Applied Materials & Interfaces

This ACS Webinar® is co-produced with ACS on Campus.





Almost a decade ago I made the prediction that machines would soon be able to generate knowledge autonomously, without human intervention. That is to say, a machine should be able to perform intellectual tasks as sophisticated as those involved in an academic project. This prediction was based on the developments in natural language processing (NLP) which led to the IBM Watson computer.

I was then sure that once a machine could master natural language, it would be able to perform any intellectual task a human performs. With the launch of ChatGPT and similar tools based on LLMs, we may say that my prediction is being proven correct.

Professor Osvaldo Novais de Oliveira













Professor Osvaldo Novais Oliveira Jr. Executive Editor, ACS Applied Materials & Interfaces









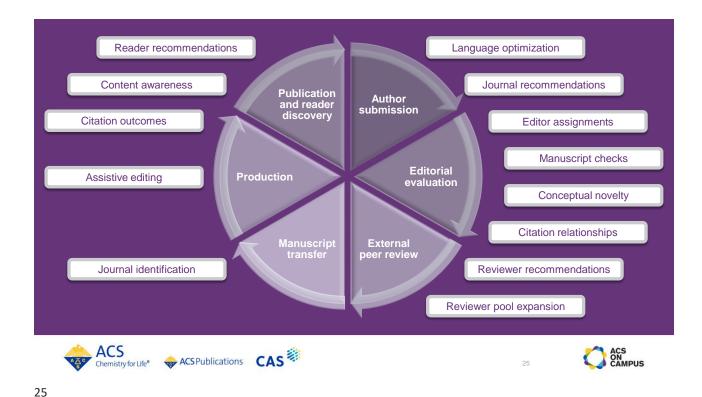














Chemistry for Life®





## Audience Survey Question

ANSWER THE QUESTION ON THE INTERACTIVE SCREEN IN ONE MOMENT

### How much have you used various A.I. tools so far?

- No experience
- Tried them out for fun/personal use
- Tried them out for research/professional use
- · Extensive experience with one or more tools

<sup>\*</sup> If your answer is "Other" tell us more in the questions window!











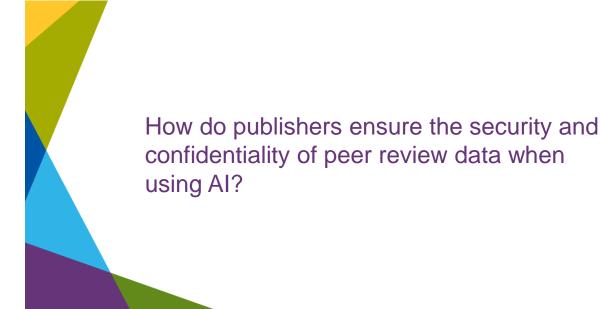
Can Al-powered education be made accessible to all students, including those with disabilities or those who do not have access to advanced technology?



























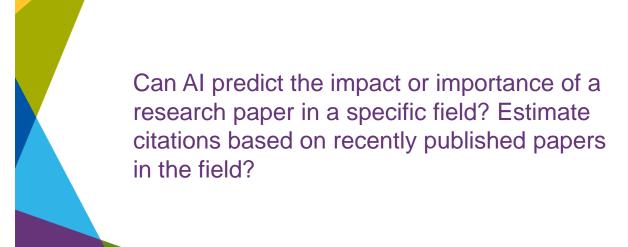


## **Audience Survey Question**

### Will A.I. have a positive or negative impact on scientific research?

- Negative impact
- Neither positive nor negative impact
- Positive impact
- Not sure

<sup>\*</sup> If your answer is "Other" tell us more in the questions window!











Do you see any implications for AI and the future of open access publishing and peer review?











How do researchers and publishers address concerns about the potential biases that AI algorithms may introduce into the peer review process? Could it also play a role in detecting and mitigating biases in scientific publishing and peer review?



















## **Audience Survey Question**

Will A.I. have a positive or negative impact on scientific publishing?

- Negative impact
- Neither positive nor negative impact
- Positive impact
- Not sure

<sup>\*</sup> If your answer is "Other" tell us more in the questions window!

Some AI models, especially deep learning ones, are often seen as "black boxes" and it can be challenging to understand how they arrive at their decisions. How can this be taken into account? What issues do you see arising from this "black box" challenge and how can it be addressed?









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What possible measures could be put in place to protect data while using AI platforms? How might sensitive information be handled or stored?

























ACS Reviewer Lab is a free, on-demand peer review training course, now available through the ACS Institute. Designed by ACS Editors, leading scientific researchers, and ACS Publications staff, this course provides real-life guidance on how to navigate tricky ethical situations, identify core criteria for evaluating manuscripts, and write a first-rate review.

https://institute.acs.org/courses/acs-reviewer-lab.html













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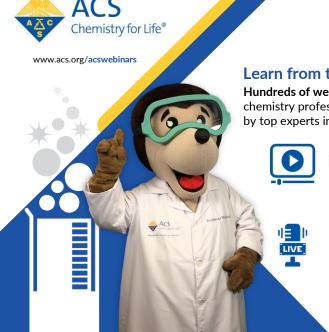
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