



Draft, Submit, Revise: A Manuscript Writing Series



Schedule

TUES, 6 FEB 2024
12-1PM



Manuscript planning:

Overview of manuscripts, approaches for success, and writing techniques

TUES, 5 MARCH 2024
12-1PM



Tech in Writing:

Pros and cons of Generative AI and an overview of citation managers

TUES, 9 APRIL 2024
10-11AM*



Manuscript manufacturing:

Formatting, authorship, storytelling

THURS, 9 MAY 2024
8:30 - 10AM
OR



Edit like a reviewer

Gain hands on experience learning editing techniques from experts in-person.

WED, 22 MAY 2024
8:30 - 10AM

9 MAY UW MADISON
SMPH 1220-1222

22 MAY MARSHFIELD CLINICAL RESEARCH INSTITUTE
LAWTON BUILDING, CONFERENCE ROOM A/B

WED, 5 JUNE 2024
12-1PM



Navigating submissions

Addressing reviewer feedback, SMPH's resources for dissemination.

zoom

in-person

In-person
space is limited!



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Research Institute

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sponsored_programs@marshfieldresearch.org



Institute for Clinical and
Translational Research
UNIVERSITY OF WISCONSIN-MADISON

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Marshfield Clinic
Research Institute

Draft, Submit, Revise:

A Manuscript Writing Series

Session 2: Tech in Writing

Speakers:

Jevin Lortie, PhD & Ben Rush, PhD: AI for Science Writing

Heather Johnston, MS: Considerations for Using AI in Academic Writing

Paije Wilson, MLIS: Citation Management

March 5th, 2024

Please ask questions in the chat as you think of them.

Our team will compile questions to ask the speakers.



2:14 AM · Jun 13, 2023

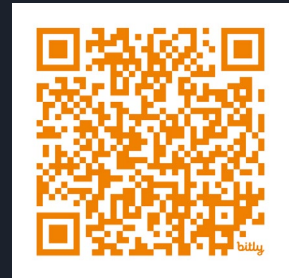
AI for: Science Writing

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www.benrush.science

AI4Sci Prompt Library:
bit.ly/ai4sci-prompt-library

How can AI help you? Tell
us

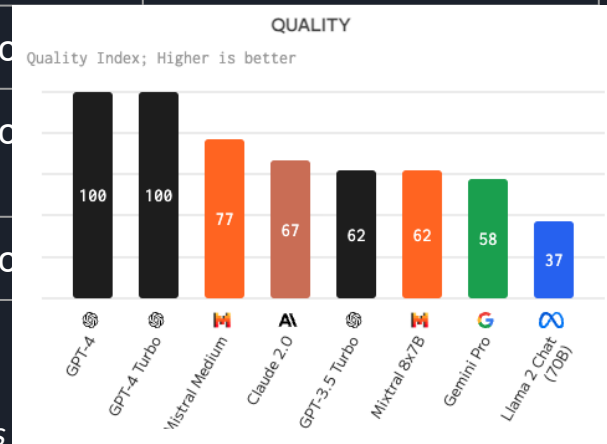


LLM models for writing

Service	LLM Model	Price	Access	Uses beyond writing
ChatGPT	GPT3.5 4	Free \$20/mo	Personal Account	Images, Code, Code interpreter
Copilot	GPT4	Free	With UW-Madison	Images, Vision
Gemini	Gemini Pro Ultra	Free \$20/mo	Personal Account	
Perplexity	Pplx, Llama 2 Pro, GPT4, Claude 2.1	Free \$20/mo	Personal Account	
Claude	Claude 3* Claude 3 Opus	Free \$20/mo	Personal Account	

**best FREE model based on LLM metrics*

Want more details? <https://artificialanalysis.ai/models>



Caveats

- How to view LLM—over eager intern
- Use responsibly—human check!
- We are primarily using GPT4 (paid) & Perplexity, not other LLMs at the moment.
- Prompt effectiveness could change.





ROBOT prompting example

Role: "You are a highly trained academic researcher."

Objective: I want you to help me write a specific aims page for my grant."

Background info: I will give you some information about my project and what my aims are." (Then copy and paste!)

Output: "I will give you two sample specific aims pages to better understand the format." OR "I would like one-page length written in a technical academic style"

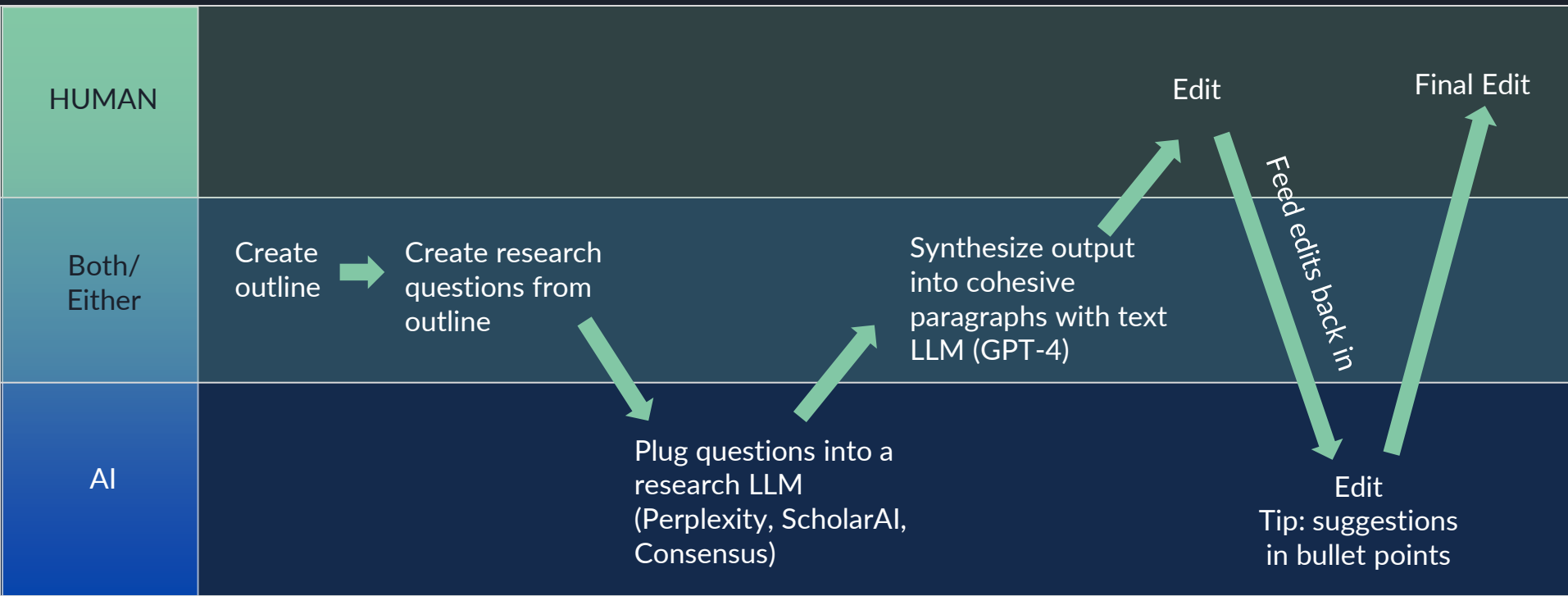
Trial and error: This is a good start, but let's make it longer." OR "Please make sure to include a conclusion with a hypothesis."

Science writing workflow

Example: Introduction

Tips:

- Break down into small chunks.
- Feed finished sections back into AI for greater context.
- More detail in full workshop



Methods & Results

You can ask for code and find errors

- Can do in Copilot, too
- ANOVA demo prompt

Jump start results and methods sections

- Tailor output for audiences
- Methods & Results Writer prompt

Let's start by generating the simulated data and performing the ANOVA test:

python

Copy code

```
import numpy as np
import scipy.stats as stats
import matplotlib.pyplot as plt

# Step 1: Generate Simulated Data
np.random.seed(0) # For reproducibility
group_A = np.random.normal(50, 10, 100) # Mean=50, SD=10, n=100
group_B = np.random.normal(60, 10, 100) # Mean=60, SD=10, n=100
group_C = np.random.normal(55, 10, 100) # Mean=55, SD=10, n=100
```

LASSO

We used a Least Absolute Shrinkage and Selection Operator (LASSO) regression model was utilized to explore the associations between DXA-only, BIS-only, and combined DXA and BIS variables in predicting handgrip strength and jump power. Model optimization was done using a grid search with 5-fold cross-validation to identify the optimal regularization strength and convergence criteria, varying the alpha parameter across a range of 10^{-4} to 1 and testing maximum iteration counts of 10,000 to 50,000, and scoring for better iterations with negative mean squared error.



Reminders, Takeaways, Questions

Don't forget to check AI generated content

- Use your critical thinking skills
- Everything should be screened for accuracy and hallucinations.

More in-depth learning with our workshop “AI for Scientists”

- Demos of manuscript sections, research, science communication

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www.benrush.science

AI4Sci Prompt Library:
bit.ly/ai4sci-prompt-library

How can AI help
you? Tell us





Considerations for Using Generative AI in Academic Writing

Heather Johnston, MA

IT Policy Writer & Analyst, DoIT Office of Cybersecurity



Agenda

Introduction

Overview of laws, policies and guidance

Federal government

UW-Madison

Universities of Wisconsin

Potential pitfalls of using generative AI in academic writing

U.S. copyright law

Ethics

Privacy

Advice for using generative AI lawfully, ethically and in compliance with policy

Q&A



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Who's in the room?

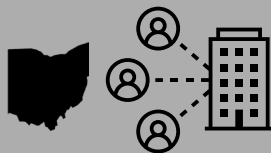
PARTICIPANTS

In the chat, please tell us:

1. Your name
2. Your title/role
3. One concern you have about using generative AI in academic writing



PRESENTER



Heather Johnston



2022-Present
IT Policy Writer and
Analyst, Office of
Cybersecurity, DoIT

2020-2022
Research admin/research
development consultant
*(Including post-award support
for \$72M in federal grants to
support a COVID clinical trial)*

2012-2020
Associate Director of
Research
Communications, Miami
University (Ohio)

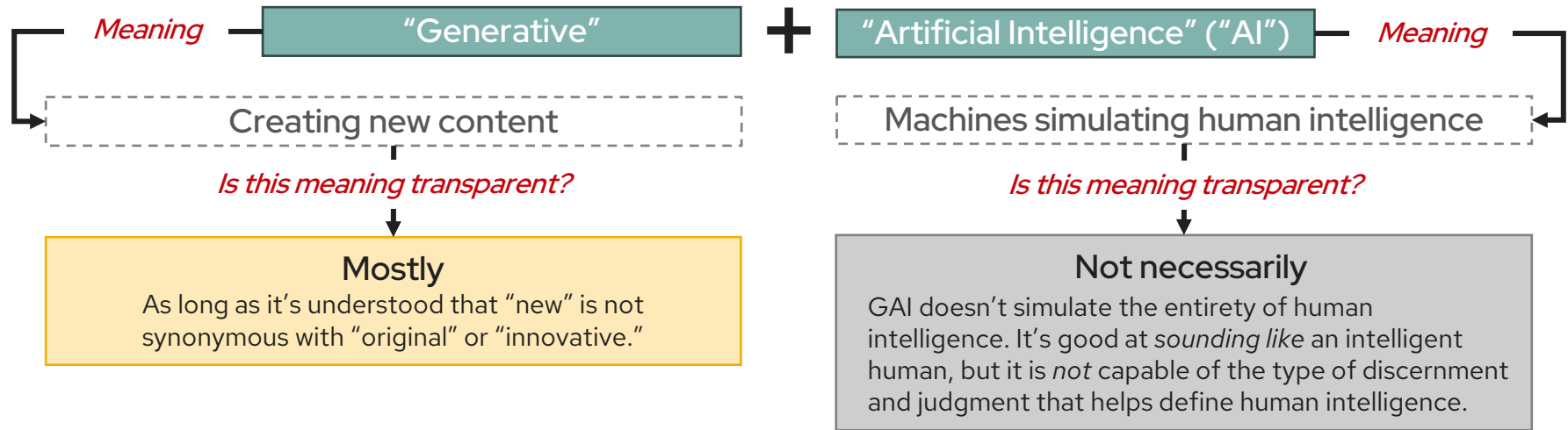
2010-2012
IT Analyst,
Faculty Technology
Resources Center,
University of Cincinnati

2005-2010
Field Service Instructor
of Writing, College
of Applied Science,
University of Cincinnati

MA in Professional
Writing, University of
Cincinnati
BS in Education, Bowling
Green State University
(Ohio)



Unpacking the term “generative AI”



What is generative AI actually doing?

GAI combines machine learning algorithms and trained models to create content that is statistically similar to the human-created content in the models' training data sets.



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U.S. copyright law





U.S. copyright law

- U.S. copyright law grants the copyright holder the exclusive right to reproduce, display, create derivatives of and sell copies of “original works of authorship fixed in any tangible medium of expression” for a statutorily defined period of time.
- If you have specific questions about copyright law and AI, please contact the UW-Madison Office of Legal Affairs at 608-263-7400.



Policies and guidance



Federal government, UW–Madison
and Universities of Wisconsin



Federal government



[Executive Order on the Safe, Secure and Trustworthy Development and Use of Artificial Intelligence](#)



Directs the Copyright Office to report on issues related to AI, "including the scope of protection for works produced using AI and the treatment of copyrighted works in AI training."

Holds that AI cannot be an author.



[Copyright Registration Guidance: Works Containing Material Generated by Artificial Intelligence](#)



[Legal Sidebar on Generative Artificial Intelligence and Copyright Law](#)



[AI Risk Management Framework](#)



[AI resource page](#)



UW–Madison and Universities of Wisconsin

- UW–Madison

- No AI-specific policy to date
- [CISO's statement on use of generative AI](#)
 - Do not enter any data that is not public (low risk) into non-enterprise generative AI tools or services
 - Do not use AI to violate laws; institutional policies, rules or guidelines; or agreements or contracts
- [Generative AI @ UW–Madison: use and policies webpage](#)
 - Links to other institutional and external resources

- Universities of Wisconsin

- No AI-specific policy to date
- AI statement expected in the future
- Under [Wisconsin Regent Policy Document 25-3, "Acceptable Use of Information Technology Resources,"](#) System IT resources may not be used to violate the law, including copyright or other intellectual property laws



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U.S. copyright law





The current state

- The U.S. Copyright Office is currently grappling with a number of questions surrounding GAI and copyright.
 - The Office has issued a [Notice of Inquiry and Request for Comments on Artificial Intelligence and Copyright](#) to solicit input on:
 1. The use of copyrighted works to train AI models
 2. The copyrightability of material generated using AI systems
 3. Potential liability for infringing works generated using AI systems
 4. The treatment of generative AI outputs that imitate the identity or style of human artists
- If you have specific questions about copyright law and AI, please contact the UW-Madison Office of Legal Affairs at 608-263-7400.

Intellectual property and AI: 3 notable issues

1.
GAI can't work without making copies

Law image by PenSmasher from Noun Project (CC BY 3.0)

2.
GAI learns to "create" from existing work

Transparency image by HervinJuce from Noun Project (CC BY 3.0)

3.
Feeding GAI IP may constitute early disclosure

Patent image by PenSmasher from Noun Project (CC BY 3.0)



Some pro- and anti-GAI arguments

Question	Pro-GAI argument	Anti-GAI argument
Does generative AI pose an existential threat to the creative economy?	No, GAI is no different from other tools human creators use to support their creative work (e.g., Photoshop)	Yes, the availability of GAI-generated content undercuts the market for human creators' work
What constitutes a copy?	GAI extracts data points from training material; it does not copy entire works	GAI can't ingest content without copying it
Can machines be authors?	GAI is an independent creative force	GAI can generate outputs only in response to human inputs, and since it's trained on existing work, all its outputs are derivative
When is use by machines "fair use"?	GAI uses copyrighted material to learn, and learning is fair use	Computers' "learning" from content to, for example, produce an index, is different from their "learning" to produce similar – and from a commercial perspective, competing – work
Is reading done by machines different from reading done by humans?	Yes, machines only "decode" words and images; they don't engage with a work's expression like humans do	No, and treating them differently under the law creates perverse incentives



Ethics



The questions

- Does generative AI threaten research quality and integrity?
- How does GAI influence research culture?
- How might GAI affect the promotion and tenure process?
- What does GAI incentivize and disincentivize?
- How does GAI affect notions of authorship?
- What impact does GAI have on diversity, equity, inclusion and belonging?
- Can GAI be trusted?
- Is GAI introducing new ethical problems or is it simply highlighting existing ones?





Generative AI and burden reduction

- GAI makes it easier to **produce** large volumes of work by:
 - Reducing time spent on formatting and other “mechanical” tasks
 - Reducing time spent on some types of editing and proofreading
 - Enhancing writing clarity and accelerating iterative drafting

PROS	CONS
<ul style="list-style-type: none">• Researchers can focus more on “refining their ideas, framing their arguments better, and conducting more in-depth analyses”*• When academic writing, as a whole, becomes clearer, it will be easier to distinguish the writing that reflects the best thinking• May help make more research accessible to lay audiences	<ul style="list-style-type: none">• Could lead some fields to become inordinately focused on the types of research AI does best• Increases ability to publish in areas outside one’s expertise• Could exacerbate emphasis on quantity over quality or relevance of research in P&T decisions• Increased volume could overwhelm publishers’ and sponsors’ submission review systems



Generative AI and burden reduction *continued*

- GAI makes it easier to **review** large volumes of data by overcoming human limitations, such as:
 - Processing speed
 - Existing knowledge
 - Personal experience
 - Analytical capability
 - Emotional response
 - Fatigue
 - Boredom
 - Inattention
 - Personal preferences

PROS	CONS
<ul style="list-style-type: none">• Could help overcome biases of human editors and peer reviewers• Because AI is not constrained by siloes, it could facilitate interdisciplinary research*	<ul style="list-style-type: none">• Because of its training sets and coding processes, AI has its own inherent biases, and may also make biased decisions• Could lead some fields to become inordinately focused on the types of research AI does best• Could be used to facilitate p-hacking

*See [Lund et al \(2023\) \(pre-print\)](#)



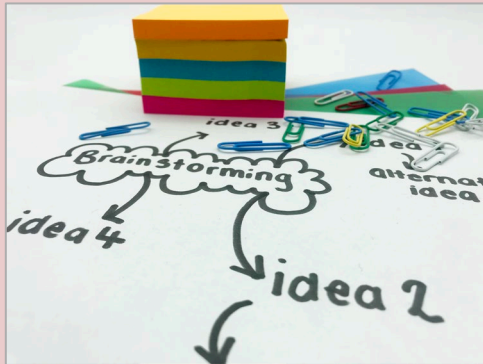
Using tools that rely on LLMs

- Large language models (LLMs) are trained on massive amounts of existing work, including published and copyright-protected material
- Because GAI tools and services rely on LLMs and the data used to train them, they:
 - Do not always credit their sources (especially when they're not asked to)
 - Do not always delineate fact from fiction and can be willfully manipulated to falsify or distort reality
 - Seldom make it easy – or even possible – to identify and correct errors
 - May be easily confused by words with multiple meanings or compound terms that have specialized meanings in certain contexts
 - May not be retrained when newer work is produced
 - May serve to reinforce biases that shaped the existing publication landscape (i.e., large ≠ diverse)

Using tools that rely on LLMs *cont'd*

PROS

- Increases accessibility of data and information for researchers and the public alike
- Facilitates brainstorming
- Can be used as a tool to support creative work
- Could facilitate interdisciplinary research*



CONS

- Enables (unwitting) plagiarism and copyright infringement
- Hinders reproducibility when sources of data are not/cannot be attributed
- May result in less original and innovative – and therefore meaningful and relevant – research
- May threaten scientific integrity* through mistaken reliance on biased or erroneous LLM training data
- May disproportionately advantage or disadvantage some researchers through bias-reinforcing mechanisms (e.g., the Matthew Effect* or under-representation of certain voices in LLM training data)
- Could lead some fields to focus inordinately on certain “popular” research topics

*For more on this, see [Lund et al \(2023\) \(pre-print\)](#)



Generative AI and authorship

- Generative AI can adequately perform many tasks traditionally associated with authorship, including creating tables and figures and writing sections of text.
- Authorship is about more than putting words and figures on a page or screen.
 - GAI employs language models, not thinking models.
 - “[T]he internet [i.e., LLM’s training set] contains our thoughts, data, and facts but not the reasoning, logic, or context to truly make sense of them.”*
 - GAI cannot exercise discernment or judgment the way humans can.
 - We expect authors to be responsible and accountable, and GAI cannot be either.

Generative AI and authorship *continued*

PROS

- Reduces researchers' administrative and clerical burdens, giving them more time to focus on the substantive elements of authorship
- May help remove barriers to publication and funding for non-native English speakers and people with verbal learning disabilities

CONS

- May present barriers to transparency and reproducibility, especially when use of AI is not acknowledged and described
- Can compound existing errors and biases because it foregrounds "loud" – but not necessarily truthful or equitable – voices



A final thought on generative AI and ethics

Is this the right question?

"Is it right to use AI to write papers [and grant proposals] when publishing papers [and securing funding] are used as a barometer of researcher competency, tenure, and promotion?"¹



Questions by Oberazzi
CC BY-NC-SA 2.0 DEED
Flickr

Or are these the right questions?

*"For all the challenges raised, ChatGPT is simply holding a mirror to issues already plaguing the current scholarly publishing system. . . **These concerns have an underlying assumption – the current system is working. We need to ask: is it?**"²*

*"Some people might see the use of ChatGPT in writing grant proposals as cheating, but it actually highlights a much bigger problem: **what is the point of asking scientists to write documents that can be easily created with AI? What value are we adding?** Perhaps it is time for funding bodies to rethink their application processes."³*



Privacy





The short answer

- It's safest to assume there is none

PRIVACY



The long(er) answer

- GAI tools that are available for public use on the web (e.g., ChatGPT, Bard, Midjourney) may make any data or information inputs available as outputs.
 - As per the CISO's statement on use of generative AI, it is a violation of campus and UW System policy to enter any data that is not public (low risk) into these non-enterprise GAI tools or services.
 - This includes, but is not limited to, PHI and HIPAA- or FERPA-protected data
- It may be acceptable to enter non-public (non-low risk) data into GAI tools or services that have undergone appropriate internal review.
 - Appropriate internal review may include, but is not limited to:
 - Cybersecurity risk management (per [UW-503](#) and the [Cybersecurity Risk Management Implementation Plan](#))
 - Data governance
 - Accessibility
 - Purchasing
- If you have questions about data classification, consult the appropriate [Data Steward](#)



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Advice for using generative AI



Lawfully, ethically and in compliance with policy



Finding home



The Wizard of Oz (1939) by Insomnia Cured Here, CC BY-SA 2.0 DEED Flickr

*Click your heels
together three times
and say, "There's nothing
like being responsible
and accountable."*



GAI-assisted academic writing: The “do”s

- ✓ Always follow sponsor or publisher guidelines.¹
 - ✓ Be on the lookout for new and evolving guidance
- ✓ Always check GAI outputs for relevance, logic, consistency, accuracy and bias.
- ✓ Use GAI for brainstorming and non-creative tasks.
 - ✓ Non-creative tasks include structuring, editing and formatting.
 - ✓ Check outputs for “tortured phrases”² and other unnatural-sounding language.
- ✓ Let your readers know when and how you’ve used GAI
 - ✓ Specify what tool or service you used (don’t forget the version!)
 - ✓ Specify what you used it for
 - ✓ Describe how you used it

Tip
Get help from an expert if you need it. For example, ask a lawyer to review a contract you drafted with the help of GAI.

Examples
“haze figuring”
(cloud computing)
“flag to commotion”
(signal to noise)
“irregular esteem”
(random value)

Tip
This information generally belongs in the **materials and methods** or **acknowledgment section**. (But also see Bullet #1!)

¹See Appendix B for links to some guidance from sponsors and publishers ²Source: [Else \(2021\)](#)



GAI-assisted academic writing: The “don’t”s

- ✘ Don't take GAI's word for anything.
- ✘ Don't use AI to write (i.e., don't use raw GAI outputs as text in your work).
- ✘ Don't use GAI for contract performance without:
 - Knowing and understanding the terms of the contract² *and*
 - Contacting the contract negotiator who worked on the agreement³ or the Office of Legal Affairs.
- ✘ Don't feel obliged to disclose use of GAI if it's only for mechanics and usage.
 - You wouldn't disclose use of Word's grammar functions or Grammarly or similar tools, so you don't need to disclose when you've used GAI for the same purpose.

Example

GAI may include phrases – such as “this study addresses a gap in the literature” – that appear frequently in papers, but do not necessarily reflect reality.¹

Example

Work-for-hire customers generally own the copyright to the work they paid for. Because issues of copyright have yet to be settled for GAI, using it to produce work-for-hire could be problematic.



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What questions do you have?



Ask me now or email me later: Heather.Johnston@wisc.edu



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UNIVERSITY OF WISCONSIN-MADISON



Appendix A

Glossary



Definitions of some GAI-relevant terms

Algorithm - a process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer. ([Oxford Languages](#))

Artificial intelligence (AI) - the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings. ([Britannica](#))

Artificial neural network (ANN) - a computer architecture in which a number of processors are interconnected in a manner suggestive of the connections between neurons in a human brain and which is able to learn by a process of trial and error. ([Merriam-Webster](#))

Computational linguistics - the branch of linguistics in which the techniques of computer science are applied to the analysis and synthesis of language and speech. ([Oxford Languages](#))

Deep learning - a type of machine learning based on artificial neural networks in which multiple layers of processing are used to extract progressively higher level features from data. ([Oxford Languages](#))

Generative artificial intelligence (GAI) - a type of artificial intelligence (AI) that can learn from existing artifacts to generate (at scale) new, realistic artifacts (e.g., images, video, music, speech, text, software code, product designs) that reflect the characteristics of the training data but don't repeat it. ([Gartner](#))

Large language model (LLM) - a specialized type of artificial intelligence (AI) that has been trained on vast amounts of text to understand existing content and generate original content. ([Gartner](#))

Machine learning (ML) - the use and development of computer systems that are able to learn and adapt without following explicit instructions, by using algorithms and statistical models to analyze and draw inferences from patterns in data. ([Oxford Languages](#))

Natural language processing (NLP) - the use of operations, systems, and technologies that allow computers to process and respond to written and spoken language in a way that mirrors human ability. To do this, NLP models must use computational linguistics, statistics, machine learning, and deep-learning models. ([Britannica](#))



Appendix B

Guidance from editors/publishers and funding agencies on use of generative AI



Guidance from publishers/editors and funding agencies

Publisher/editor	GAI use allowed?	Can GAI be author?
Nature (and other Springer Nature journals)	Yes, with disclosure	No
JAMA Network	Yes, with disclosure	No
Science Journals	Not for text, figures, images, graphics	No
Committee on Publication Ethics (COPE)	Yes, with disclosure	No
World Association of Medical Editors (WAME)	Yes, with disclosure	No
International Committee of Medical Journal Editors (ICMJE)	Yes, with disclosure	No

Funding agency	GAI allowed for proposal prep?	GAI allowed for peer review?
National Institutes of Health (NIH)	Yes, at applicant's risk	No
National Science Foundation (NSF)	Yes, at applicant's risk and with disclosure	No
American Heart Association (AHA)	Yes, with disclosure	No
Wellcome Trust , UK	Yes, with disclosure	No



How to cite GAI

- [APA](#)
- [Chicago style](#)
- [MLA](#)



Appendix C

Examples of technical, legal and psychological controls for protecting against copyright infringement



Example controls for protecting copyright

- Technical
 - Watermarks
 - [Tools](#) like [Glaze](#), [Kudurru](#)
 - [Block web crawlers](#)
 - [Opt out of training data sets](#)
- Legal
 - Contact the Office of Legal Affairs regarding registering a Board of Regents copyright with the U.S. Copyright Office
- Psychological
 - Add a “this work not to be used to train AI” notice to your works and your website

Tip

Be aware that without a fair use exception to opt-outs, licensing fees could make use for research and scholarship cost-prohibitive.



Appendix D

Some GAI tools and services



Beyond ChatGPT and Bard: Some tools and services

Literature reviews/secondary research <ul style="list-style-type: none">• Avidnote• Consensus• Dimensions• Elicit• HeyScience• Inciteful• InfraNodus• Keenious• Laser AI• Lateral• Litmaps• MirrorThink• Prophy• R Discovery• Research Rabbit• Scholarcy• scite• Semantic Scholar• wisio.app	Protein structure prediction and design <ul style="list-style-type: none">• AlphaFold• Cradle• ProteinMPNN• RoseTTAFold	Coding/programming <ul style="list-style-type: none">• AlphaCode• Codex• Github Copilot• Snyk (DeepCode)• Tabnine
Qualitative research <ul style="list-style-type: none">• InfraNodus (<i>qualitative and thematic analysis</i>)• MAXQDA AI Assist (<i>transcription, coding suggestions</i>)• Speak (<i>qualitative research, interviews, focus groups</i>)• Whisper (<i>transcription</i>)		
Proofreading, formatting <ul style="list-style-type: none">• Avidnote• Grantable• Granted• HeyScience• InfraNodus• Wordvice• DeepL (<i>translation</i>)• Paperpal• Penelope• Trinka• wisio.app• Writefull	Miscellaneous <ul style="list-style-type: none">• Census GPT (<i>explore US Census Data using natural language</i>)• DeepVariant (<i>genomic analysis</i>)• DataSeer (<i>facilitates data sharing</i>)• MirrorThink (<i>math calculations, scientific market research</i>)• Polymer (<i>data analytics</i>)	



Appendix E

Acknowledgments



Special thanks for support from

- **Jeff Savoy**, Chief Information Security Officer, DoIT
- **Todd Shechter**, Chief Technology Officer, DoIT
- **Amy Diestler**, Cybersecurity Risk & Compliance Manager, SMPH
- **Lissa Koop**, Senior University Legal Counsel, Office of Legal Affairs



Citation Management

Paije Wilson, MLIS



Preliminary Information

Feel free to email me if you:

- Have any questions
- Have any concerns
- Would like additional assistance



Pajje Wilson, Librarian

Email: pajje.wilson@wisc.edu



Agenda

Today I will:

1. Give you a quick overview of what citation managers are and your options
2. Show you the Citation Managers Guide
3. Give a quick demo of EndNote Basic
4. Show you where to access additional resources



What are the benefits of citation managers?

Link to Citation Management Guide

https://researchguides.library.wisc.edu/Citation_Management



Save



Organize



Share



Create



Format

What are my options?

EndNote

🇸 Requires Subscription

EndNote Basic

Free

Zotero

Free (for basic version)

Mendeley

Free (for basic version)





Things to consider when choosing a citation manager

- **Context:** What do my teammates use?
- **Cost:** Do I want a free citation manager, or am I willing to pay for extra features?
- **Functionality:** What do I want from my citation manager?

EndNote Basic

Creating an Account

TOPIC GUIDES

[ANATOMY RESOURCES](#)

[BASIC & APPLIED SCIENCES](#)

[CLINICAL RESOURCES | EBM GUIDE](#)

[DEI RESOURCES \(REACH\)](#)

[HEALTH STATISTICS](#)

[GLOBAL HEALTH](#)

[HISTORY OF 1918 PANDEMIC](#)

[HISTORY OF THE HEALTH SCIENCES](#)

[LGBTQI HEALTH RESOURCES](#)

[NURSING RESOURCES](#)

[PHARMACY](#)

[PUBLIC HEALTH](#)

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OTHER GUIDES

[BROWZINE](#)

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[DOCTORS & HOSPITALS](#)

[IMPACT METRICS](#)

[LITERATURE SEARCHING INTRO](#)

[PUBLICATION TRACKING | ORCID](#)

[STYLE GUIDES](#)

[SYSTEMATIC REVIEWS | COVIDENCE](#)

[TESTS & MEASUREMENTS](#)

[TUTORIALS](#)

[WHERE SHOULD I PUBLISH?](#)

[ALL GUIDES](#)

TWO PANDEMICS



[Pandemic\(s\) History: A Growing Resource Collection](#)

Visit often for articles and resources about the Pandemic of 1918 and the COVID-19 Pandemic. Updated June 30, 2020

EVENTS

FEBRUARY

17 [AMA President-elect Jesse Ehrenfeld, MD, MPH Campus Visit](#)

12:00 am

20 [Innovation to Market](#)
Applications Due February 20, 2023

8:00 am

STAFF



Citation Management : Home

Home

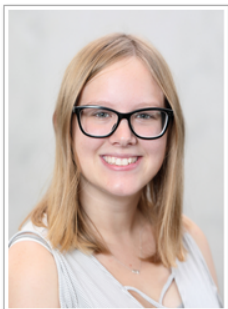
EndNote Basic

EndNote 20

Zotero

Mendeley

Click the EndNote
Basic tab



Contact

How do I choose a citation manager?



Citation managers such as EndNote Basic (aka EndNote Online), EndNote 20, Zotero, and Mendeley are tools for managing your citations. Among other things, citation managers can help you to:

- Collect and organize your citations
- Format bibliographies and in-text citations for your papers
- Share your citations with others

This guide includes pages with information on how to install and use [EndNote Basic](#), [EndNote 20](#), [Zotero](#), and [Mendeley](#).

How do I choose a citation manager?

The "best" citation manager will depend on the functions you're looking for in a citation manager.

Each citation manager shares some of the same, basic functions, including, among other things, the ability to:

- Import references
- Create bibliographies
- Attach PDFs to citations

Additional Resources

- [What is a Citation Manager?](#)
A video created by UW-Madison's General Library System explaining what citation managers are, and how they can help you with your research.
- [UW-Madison Libraries' Citation Manager Comparison Chart](#)
This chart provides a comprehensive comparison of the available functions in EndNote Basic, EndNote 20, Zotero, and Mendeley.
- [UW-Madison Libraries' Citation Managers Guide](#)
This is the UW Libraries' guide to citation managers, which provides general information on installing and using EndNote Basic, EndNote 20, Zotero, and Mendeley.
- [UW-Madison Libraries' Citing Sources Guide](#)
This guide provides information on how to cite sources using different citation styles.
- [UW-Madison Writing Center](#)
The Writing Center supports writers affiliated with the University of Wisconsin-Madison. The Writing Center provides writers with support, resources, community, and accountability at any stage of the writing process.

Citation Management : EndNote Basic

Home

EndNote Basic

EndNote 20

Zotero

Mendeley

What is EndNote Basic?



EndNote Basic

EndNote Basic (aka EndNote Online or EndNote Web), is the free, online version of EndNote. Like all of the citation managers included in this guide, EndNote Basic can help you to collect, organize, format, and share your citations.

Creating your EndNote Basic account

Instructions for creating and setting up your EndNote Basic account can be found in [this handout](#), or in the video embedded below.

Have questions? Reach out!



Have additional questions, or would like direct EndNote Basic support? Reach out to **Paije Wilson**, the Ebling Library's Citation Management Coordinator, at paije.wilson@wisc.edu.

To see the complete list of citation manager consultants at UW-Madison, see the [consultants page](#) of the UW-Madison Libraries' Citation Managers Guide.

Quick Links

- [EndNote Basic Login](#)

This link will take you to the login screen for EndNote Basic.

- [Contact Clarivate](#)

You can use this page to contact Clarivate (the developers of EndNote and EndNote Basic) for EndNote Basic support.

Register to continue with EndNote

Email address

paije.wilson@wisc.edu

Password

●●●●●●●●●●●●●●●●



Re-enter password

●●●●●●●●●●●●●●●●



First Name

Paije

Last Name

Wilson

Register

Already a member?

Sign in

OR

After entering in
your information,
click "Register."

or register using



By registering, you acknowledge and agree to our [Terms of Use](#) and [Privacy Statement](#).

Need help? [Contact EndNote Customer Care](#).

Thank you

A registration confirmation has been sent to **paije.wilson@wisc.edu**.

You may need to check your spam folder or unblock the domain '@clarivate.com.'

OK

Need help? Contact [EndNote Customer Care](#).

Learn more about how we accelerate the pace of innovation at [Clarivate Analytics](#).



Importing Citations from PubMed

biotechnology



Search

[Advanced](#) [Create alert](#) [Create RSS](#)[User Guide](#)

Save

Email

Send to

Sorted by: Best match

Display options

MY NCBI FILTERS

450,646 results

All
Reviews
Systems

RESULTS



1

2



1945

2021

TEXT AVAILABILITY



Abstract

Click a title to go
to its metadata
page



Microbial **Biotechnology**-2020.

1

Timmis K, Ramos JL, de Vos W, Vlaeminck S, Prieto A, Danchin A, Verstraete W, de Lorenzo V.

Cite

Microb Biotechnol. 2016 Sep;9(5):529. doi: 10.1111/1751-7915.12403. Epub 2016 Aug 11.

PMID: 27509838

Free PMC article.

No abstract available.

Share



Will **Biotechnology** Stop Aging?

2

Campbell S.

Cite

IEEE Pulse. 2019 Mar-Apr;10(2):3-7. doi: 10.1109/MPULS.2019.2899701.

PMID: 31021750

Review.

Share

Could **biotechnology** stop aging? The answer may be yes, no, or something in between, depending on who is being asked and what it means to "stop" aging. ...They believe **biotechnology** will lengthen human life spans to range anywhere from 1,000 years to forever. But for ...

[Find It](#)

Will Biotechnology Stop Aging?

Sarah Campbell

PMID: 31021750 DOI: [10.1109/MPULS.2019.2899701](#)

Click "Cite"

ACTIONS

[Cite](#)[Favorites](#)

Abstract

Could biotechnology stop aging? The answer may be yes, no, or something in between, depending on who is being asked and what it means to "stop" aging. For those at one end of the spectrum- life extension seekers (including some deep-pocketed Silicon Valley investors)-the answer is "yes." They believe biotechnology will lengthen human life spans to range anywhere from 1,000 years to forever. But for most, the answer is more nuanced and involves a dream of extended healthspan, rather than immortality. They imagine a future in which people over the age of 65 years are healthy, active, independent, and not burdened by disease, and that this is the norm rather than the exception. "Healthspanners" believe that one day, science will delay the onset of aging-related conditions and, as a side-effect, modestly extend life. Aging as we know it-and dread it-could become ancient history.

SHARE



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Similar articles

[Fantastic voyage: live long enough to live forever. The science behind radical life extension questions and answers.](#)

Kurzweil R, Grossman T.

Stud Health Technol Inform. 2009;149:187-94.

CITATION TEXT



Campbell S. Will Biotechnology Stop Aging?.
IEEE Pulse. 2019;10(2):3-7.
doi:10.1109/MPULS.2019.2899701

Click "Download
.nbib"



Copy



Download .nbib

Format: AMA



Opening 31021750.nbib



You have chosen to open:



31021750.nbib

which is: NBIB Formatted File (PubMed) (965 bytes)

from: <https://pubmed.ncbi.nlm.nih.gov>

1. Click "Save File"

What should Firefox do with this file?

Open with

Save File

Do this automatically for files like this from now on.

2. Click "OK"

OK

Cancel

Copy

Download .nbib

Format: AMA

My References

Collect

Organize

Format

Match

Options

Downloads

Open Search

New Reference

Import References

Quick Search

Search for

in All My References

Search

My References

All My References (0)

[Unfiled] (0)

Quick List (0)

Trash (41) Empty

My Groups

Test (0)

TRACK YOUR CITATIONS
Claim your researcher
profile on Publons



1. Hover your
mouse over
"Collect"

2. Click "Import
References"

currently n

group.

My References

Collect

Organize

Format

Match

Options

Downloads

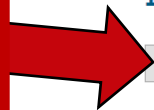
Online Search

New Reference

Import References

References

Click "Browse"



Importing from EndNote?

Browse...

No file selected.

Option:

Select...



Select Favorites

To:

Select...



Import

Import References

Importing from EndNote?

File: pubmed-biotechnol-set.nbib

Import Option: PubMed (NLM)

To: - Testing

1. Select "PubMed (NLM)" from the dropdown

2. Select the group you want to put your citation into

3. Click "Import"

My References

Collect

Organize

Format

Match

Options

Downloads

Online Search

New Reference

Import References

Click "My
References"

Import References

2 references were imported into "Testing" group.

Importing from EndNote?

File: No file selected.

Import Option:

[Select Favorites](#)

To:

Quick Search

in All My References

Search

My References

All My References (2)

[Unfiled] (0)

Quick List (0)

Testing (2)

My Groups

Testing (2)

TRACK CITATIONS
Claim your researcher
profile on



All My References

Show 10 per page

Page 1

All Page Add to group... Copy To Quick List Delete

Author	Year	Title
<input type="checkbox"/> Campbell, S.	2019	Will Biotechnology Stop Aging? IEEE Pulse Added to Library: 22 Jul 2020 Last Updated: 22 Jul 2020
<input type="checkbox"/> Timmis, K.	2016	Microbial Biotechnology-2020 Microb Biotechnol Added to Library: 22 Jul 2020 Last Updated: 22 Jul 2020

Show 10 per page

Page 1 of 1 Go

Your references

Your groups

Creating a Group

Collect Organize Format Match Options Downloads

Manage My Groups Others' Groups Find Duplicates Manage Attachments

Hover your mouse
over "Organize"
and click "Manage
My Groups"



All My References

There are currently no references stored in this group.

Search for

in All My References

Search

My References


All My References (0)

[Unfiled] (0)

Quick List (0)

Trash (41) Empty

▼ My Groups

Test (0) 

TRACK YOUR CITATIONS
Claim your researcher
profile on Publons



My References

Collect

Organize

Format

Match

Options

Downloads

Manage My Groups

Others' Groups

Find Duplicates

Manage Attachments

Manage My Groups

My Groups↑	Number of References	Share		
no groups have been created				
New group				



Click "New group"

My References

Collect

Organize

Format

Match

Options

Downloads

Manage My Groups

Others' Groups

Find Duplicates

Manage Attachments

Manage My Groups

My Groups↑	Number of References	Share		
Testing	0	<input type="checkbox"/>	Manage Sharing	Rename Delete
New group				

Editing Citations

Quick Search

in **All My References** ▾

My References

All My References (599)

[Unfiled] (576)

Quick List (0)

Trash (4)

▼ My Groups

Group 1 (9) 

GS (1)


JSTOR test (2)

NEW Folder (4)

SHARED GROUP (5) TEST (3) 

Groups Shared by Others

In Person vs Online (33)


Kay Citations (73) New Folder (5) Synch vs Asynch (31) 

All My References

Show 10 per page ▾

◀◀ Page 1 of 60 ▶▶ All Page ▾ Sort by:

<input type="checkbox"/>	Author↑	Year	Title	
<input type="checkbox"/>		2011	Integrated genomic analyses of ovarian carcinoma Nature	<input type="checkbox"/> <input type="button" value="Find It"/> <input type="button" value="Full Text"/>
			Added to Library: 19 Aug 2022 Last Updated: 29 Sep 2022	<input type="button" value="Go to URL"/>
<input type="checkbox"/>			Integrated genomic analyses of ovarian carcinoma e	<input type="checkbox"/> <input type="button" value="Find It"/> <input type="button" value="Full Text"/>
			Added to Library: 19 Aug 2022 Last Updated: 19 Aug 2022	<input type="button" value="Go to URL"/>
<input type="checkbox"/>		2011	Integrated genomic analyses of ovarian carcinoma Nature	<input type="checkbox"/> <input type="button" value="Find It"/> <input type="button" value="Full Text"/>
			Added to Library: 19 Aug 2022 Last Updated: 19 Aug 2022	<input type="button" value="Go to URL"/>
<input type="checkbox"/>		2011	Integrated genomic analyses of ovarian carcinoma Nature	<input type="checkbox"/> <input type="button" value="Find It"/> <input type="button" value="Full Text"/>


**Click the reference
you want to edit**

Quick Search

Search for

in All My References

Search

My References

All My References (599)

[Unfiled] (576)

Quick List (0)

Trash (4) Empty

My Groups

Group 1 (9)

GS (1)

JSTOR test (2)

NEW Folder (4)

SHARED GROUP (5)

TEST (3)

Groups Shared by O

In Person vs Online (33)

Kay Citations (73)

New Folder (5)

Synch vs Asynch (31)

View Reference in 'All My References'

Go to URL

Record 1 of 599

Return to list

Copy To Quick List

Delete

Add to group shared by others...

Full Text

Find It

Show Empty Fields

Bibliographic Fields:

Revert Reference

Save

Reference is saved.

Reference Type:

Journal Article

Title:

Integrated genomic analyses of human carcinomas

Year:

2011

Journal:

Nature

Nature

474

7353

Attachments:

1. Click the field you would like to edit, then make your edits

2. Once done, click "Save"

Sharing a Group

1. Hover your mouse over "Organize"



2. Click "Manage My Groups"



Quick Search

Search for

in All My References

Search

My References

All My References (5)

[Unfiled] (1)

Quick List (0)

Trash (44) Empty

My Groups

Testing (4)

TRACK YOUR CITATIONS
Claim your researcher profile on Publons



All My References

Show 10 per page

Page 1 of 1 Go

Sort by: First A

<input type="checkbox"/>	All	Author	Delete	
<input type="checkbox"/>	Campbell	Biotechnology Stop Aging? IEEE Pulse Added to Library: 22 Jul 2020 Last Updated: 22 Jul 2020		
<input type="checkbox"/>	Fulekar, M. H.	2020 Green Synthesis of Zinc Oxide Nanoparticles Using Garlic Skin Extract and Its Characterization Journal of Nanostructures Added to Library: 22 Jul 2020 Last Updated: 22 Jul 2020 Online Link → Go to URL		
<input type="checkbox"/>	Guasamucare, R.	2020 State of the art on bimetallic nanoparticles with core-shell structure: classification, properties, synthesis, and applications Ciencia E Ingenieria Added to Library: 22 Jul 2020 Last Updated: 22 Jul 2020 Online Link → Go to URL		
<input type="checkbox"/>	Smith	<untitled> Added to Library: 22 Jul 2020 Last Updated: 22 Jul 2020		
<input type="checkbox"/>	Timmis, K.	2016 Microbial Biotechnology-2020 Microb Biotechnol		

My References

Collect

Organize

Format

Match

Options

Downloads

Manage My Groups

1. Click the white box next to "Share"

2. Click "Manage Sharing"

My Groups↑	Number of References	Share		
Testing New group	4	<input type="checkbox"/> Manage Sharing	Rename	Delete

My References

Collect

Organize

Format

Match

Options

Downloads

Manage Sharing for 'Testing'

0 E-mail Addresses

[Start sharing this group.](#)



Click "Start sharing this group"

EndNote - Mozilla Firefox

https://www.myendnoteweb.com/EndNoteWeb.html?func=shareLists&fo ...

Add E-mail Addresses to 'Testing'

Enter e-mail addresses. Use the Enter or Return key to separate addresses.

- OR -

Select a text file with e-mail addresses separated by commas.

No file selected.

Read only Read & Write

Note: Attachments are not shared, regardless of privileges.

[Close window.](#)

View in [简体中文](#) [繁体中文](#) [English](#) [Deutsch](#) [日本語](#) [한국어](#) [Portugués](#) [Español](#)

1. Type the email address of the people you would like to share the group with. Separate each email address with an enter.

2. Make sure "Read and Write" is selected if you want your colleagues to make edits to the group

3. Click "Apply"

My References

Collect

Organize

Format

Match

Options

Downloads

Manage Sharing for 'Testing'

1 E-mail Address

E-mail Address ↑	Read only	Read & Write		
weepai16@outlook.com	<input type="radio"/>	<input checked="" type="radio"/>	Edit	Delete
Add More				

Note: Attachments are not shared, regardless of access privileges.

[Delete All](#)

[How do I stop sharing this group?](#)

Quick Search

in All My References

Search

My References

All My References (0)

[Unfiled] (0)

Quick List (0)

Trash (0)

▼ My Groups

Groups Shared by Others

Testing (4) 

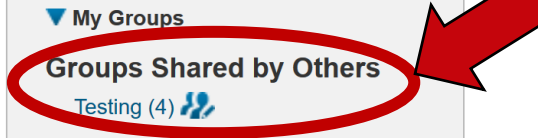
TRACK YOUR CITATIONS
Claim your researcher
profile on Publons



All My References

There are currently no references stored in this group.

Groups shared with
you



Using Shared Groups for Cite While You Write

1. Click "Organize"

2. Click "Others' Groups"

Others' Groups

Access	Show	Use for Cite While You Write	Groups Others Share with Me	Number of References	Owner
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	In Person vs Online	33	paije.wilson@wisc.edu
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Kay Citations	73	paije.wilson@wisc.edu
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Synch vs Asynch	31	paije.wilson@wisc.edu

3. Click to checkmark the group(s) you would like to use in your paper

Using the Cite While You Write Plugin

File Home Insert Design Layout References Mailings Review View Help EndNote Acro

Insert Citations Go to EndNote Online Edit Citation(s)

Style: Academic Psychiatry

Update Citations and Bibliography

Convert Citations and Bibliography

Export to EndNote

Preferences

EndNote Help

Bibliography Tools

2. Click "Insert Citations"

1. Put your cursor at the end of the sentence you want to cite

I am writing a paper. I want to cite this sentence.

lomax

Find

2. Click "Find"

1. Search last name of author you want to cite

Author	Year	Title
Lomax	2018	What will the medical physics of proton therapy look like 10 yr from now? A personal view
Lomax	2018	What will the medical physics of proton therapy look like 10 yr from now? A personal view

3. Choose citation by clicking on it

Reference Type: Journal Article
Author: Lomax, A.
Year: 2018
Title: What will the medical physics of proton therapy look like 10 yr from now? A personal view
Journal: Med Phys
Volume: 45
Issue: 11
Pages: e984-e993
Epub Date: 2018/11/14
Date: Nov
ISSN: 0094-2405
DOI: 10.1002/mp.13206
Accession Number: 30421812

4. Click "Insert"

Insert Cancel Help

Insert Citations
Go to EndNote Online Citations
Edit Citation(s)

Style: Academic Psychiatry
Update Citations and Bibliography
Convert Citations and Bibliography
Export to EndNote
Preferences
EndNote Help

I am writing a paper. I want to cite this sentence.(1)

1. Lomax A. What will the medical physics of proton therapy look like 10 yr from now? A personal view. Med Phys. 2018;45(11):e984-e93.

Insert Citations
Go to EndNote Online Citations
Edit Citation(s)

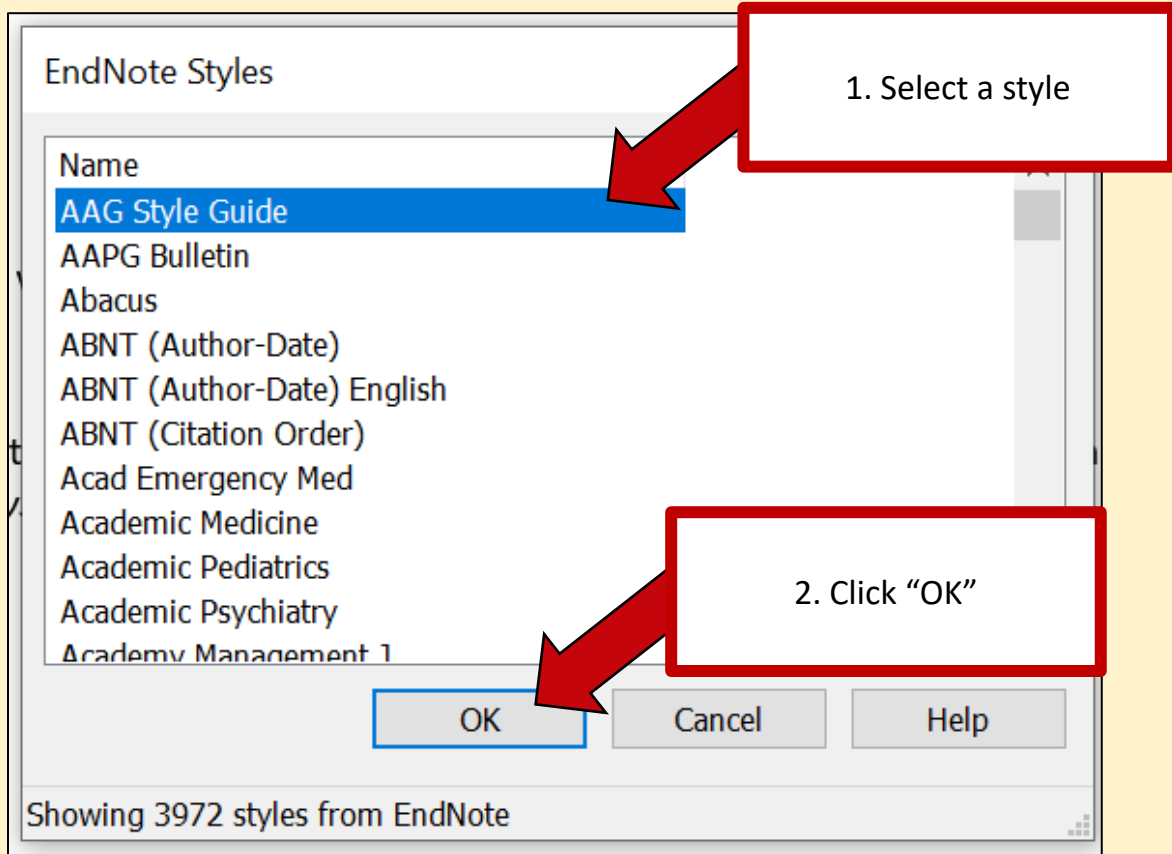
Style: Academic Psychiatry
Select Another Style...
AAG Style Guide
Acad Emergency Med
Academic Medicine
Academic Psychiatry
ACM Trans Algorithms
Acta Haematologica
Acta Odontologica Scand
Adv Cancer Res

1. Click Style dropdown

2. Click "Select Another Style"

. I want to cite this sentence.(1)|

1. Lomax A. What will the medical physics of proton therapy look like 10 yr from now? A personal view. Med Phys. 2018;45(11):e984-e93.





More Info on Citation Managers

Citation Management Guide:

- https://researchguides.library.wisc.edu/Citation_Management

Comparison Chart of Citation Managers:

- <https://www.library.wisc.edu/research-support/collecting-organizing-analyzing-information/citation-managers/comparison-chart/>

Reach out! I'm always happy to answer questions and troubleshoot! 😊

- My email: paije.Wilson@wisc.edu



Questions?



Thanks!
