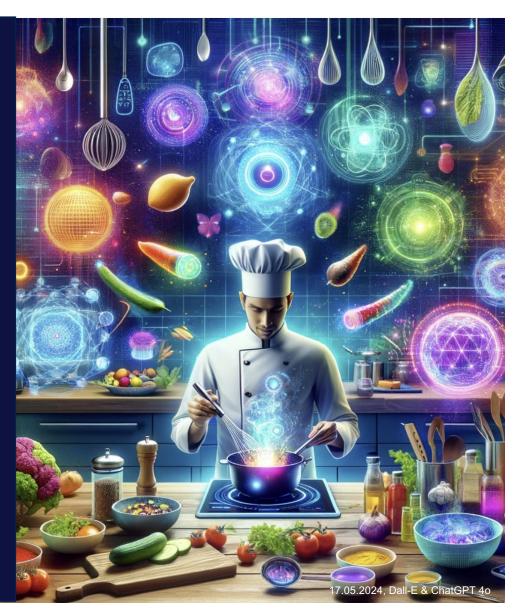
ETH zürich

Artificial Intelligence (AI) meets Information Literacy (IL): Strategies at ETH Library

<u>Cornelia Künzle, Caroline Welte, Eva-Christina Edinger,</u> Beatrice Krause, Christine Bärtsch, Roman Schurter

ETH Library

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With a little help of ChatGPT... or Microsoft Copilot



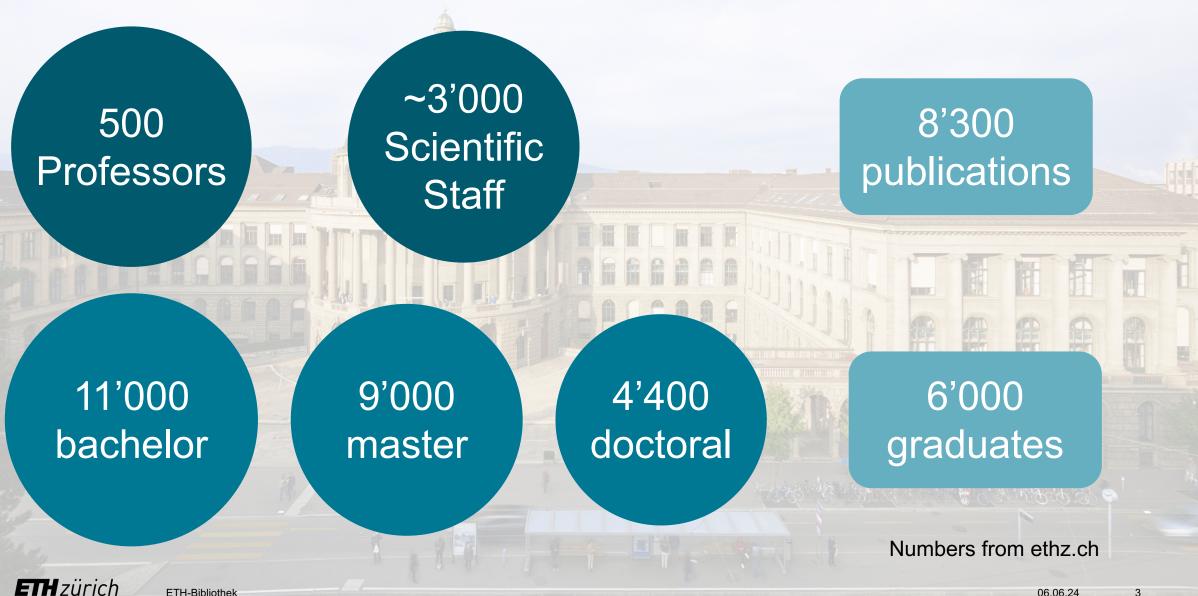
23.05.2024 with Chatgpt 4o



23.05.2024 with MS Copilot



ETH Zurich in Numbers

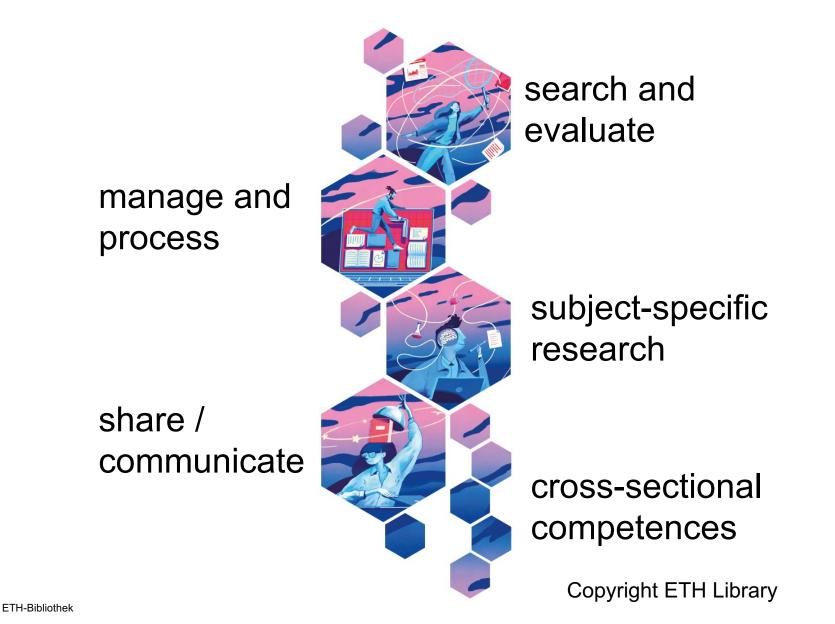


ETH-Bibliothek

06.06.24

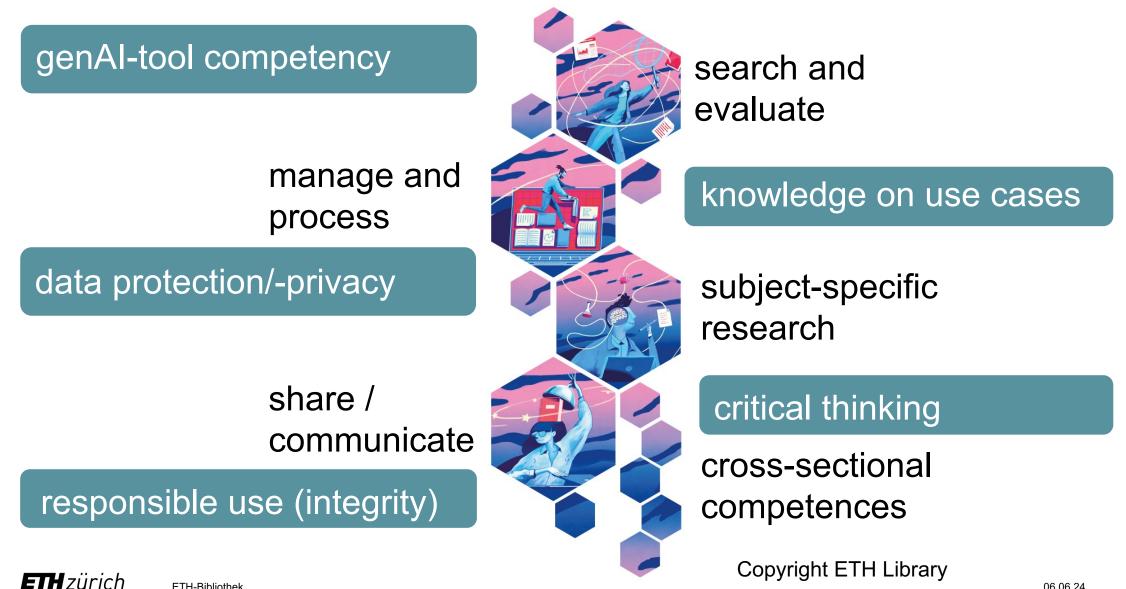
3

Information Literacy (IL) at ETH Library



AI Literacy is integral to Information Literacy

FTH-Bibliothek



06.06.24

"Academic libraries have the expertise and mindset of being early adopters of new technologies [..]."

Sandhu (2018): The Role of Academic Libraries in the Digital Transformation of the Universities. P. 293 ff.



Strategies at ETH LibraryIK trifft genKIIL meets genAI



[®] ₈ Networking &
[®] ₈ collaboration





Strategies at ETH LibraryIK trifft genKIIL meets genAI



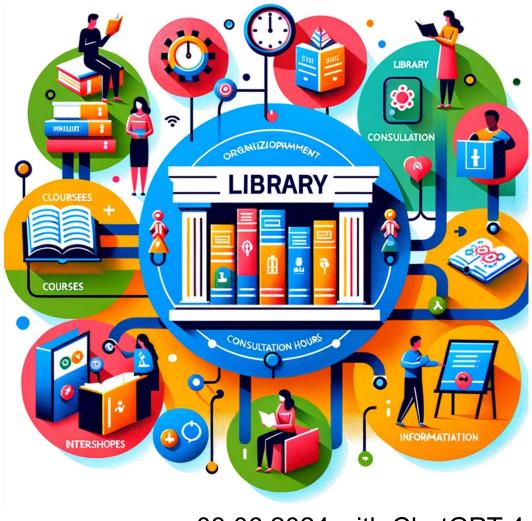
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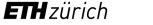


Organisational development

- Basic measures: trend monitoring
- Structural development
- Personnel development



03.06.2024 with ChatGPT 4o



Personnel development at ETH Library

- Basic knowledge on AI and LLMs
- User skills: «how to click»
- Legal aspects

- HOW? Course p
- Low-threshold further training opportunities
 - Course preparation workshops
 - Promotion of inner-organisational exchange



WHAT?

Strategies at ETH LibraryIK trifft genKIIL meets genAI



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Networking and collaboration

- Hosting of and joining networking events
- Participating and initiating collaborative projects



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Innovative collaborative teaching project 1

"Assessing the Potential of AI for Scientific Writing Techniques"

July 2023 – June 2024

Al and the writing process.

AI and plagiarism.

Al and scientific integrity.

ETH Library Project Partner

Department - USYS

Dr. M. Paschke (Lead)

GOAL: Create best practices and knowledge on potential and challenges of genAl.



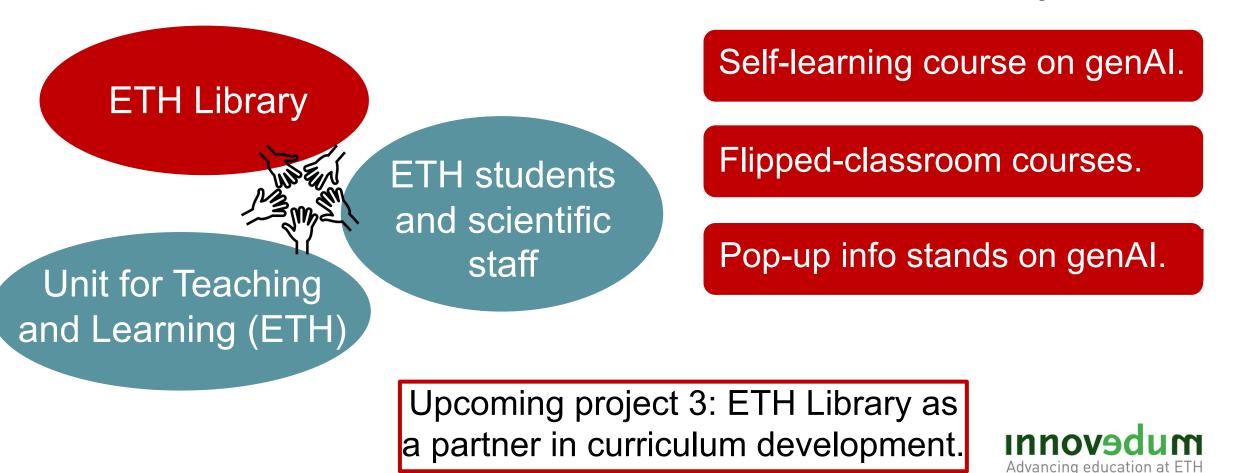




Innovative collaborative teaching project 2

"Scaled-up learning opportunities on generative AI at ETH Zurich"

Start: August 2024



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Strategies at ETH LibraryIK trifft genKIIL meets genAI



Networking & [®] 8 [®] collaboration [®] 8 [®]





Information Literacy Services at ETH Library

- Courses, workshops, webinars
- Self-learning courses (Moodle)
- Websites
- Summer school
- «Book a librarian»
- Tool licenses



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Al Literacy Services at ETH Library

- Courses, workshops, webinars
- Self-learning courses (Moodle)
- Topic specific Websites
- Pop-up info stands on genAl
- Tools ("Cite Them Right")



Plagiarism and Artificial Intelligence

Declaration of the use of AI-based tools

Example for transparently documenting the use of AI-based tools in a scientific publication

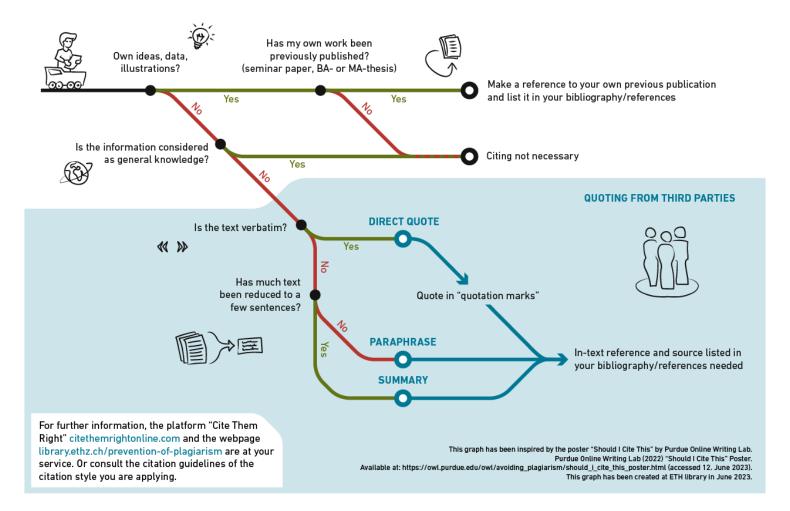
	Al-Based Tool	Use Case	Scope	Remarks
\$	ChatGPT 4.0 Last date of access: 04.12.2023	Creation of the research question	Chapter 3, pp. 8 – 11	Chat history in Appendix 2
		Code generation for data visualization	Chapter 5, p. 56	Python
* ,	Gemini Pro (formerly Google Bard) Last date of access: 18.03.2024	Revision of text for conciseness and spell-checking	Entire work	
0	Microsoft Copilot Last date of access: 09.02.2024	Code generation	Chapter 4, pp. 37–41	In Python, documentation and methodological description in Appendix 3
\$	DALL-E3 Last date of access: 09.02.2024	Visualizations	Fig. 5, p. 13 Fig. 7, p. 17	Prompts in Appendix 1
Q	DeepL Pro Last date of access: 24.11.2023	Translation of text passages	Entire work	From Greek to English
C	Grammarly Last date of access: 17.01.2024	Correction of grammatical and stylistic mistakes	Entire work	Premium plan with Microsoft Word integration

Source: Paschke, M., Sudau, M., Mihálka, R, "Assessing the Potential of Artificial Intelligence in Scientific Writing". Innovedum, ETH Zürich, 2023. / ETH Library Last updated: 14 February 2024



Decision-making aid (poster)

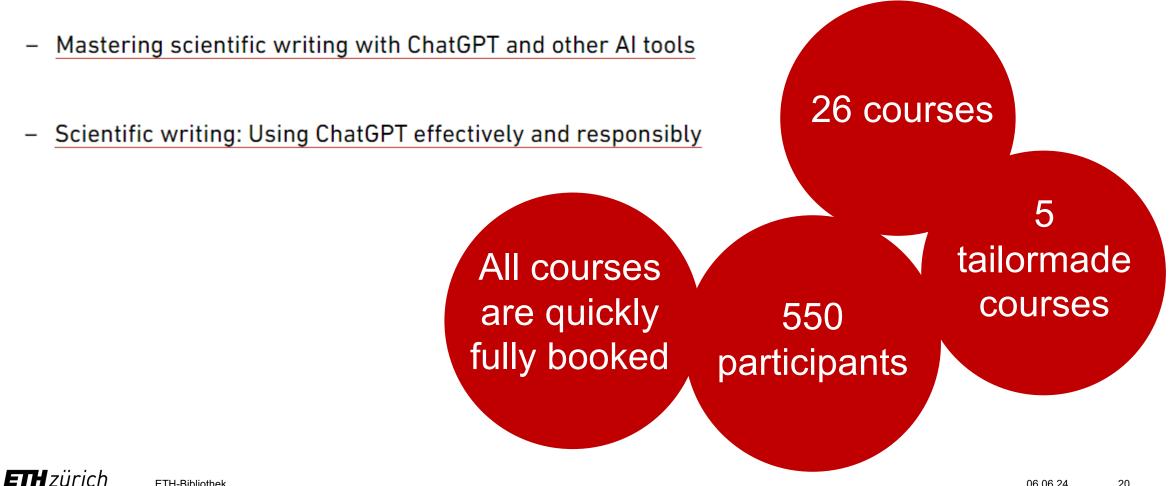
Must I cite?



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Courses at ETH Library: using genAI tools in writing

since September 2023:



ETH-Bibliothek

Self-learning course: Ready for Take-Off





https://moodle-app2.let.ethz.ch/course/view.php?id=13753

ETH zürich

Self-learning course: Find your reference management software!





Strategies at ETH LibraryIK trifft genKIIL meets genAI



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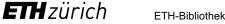


The era of genAl gives (university) libraries the chance to **strengthen their role** in teaching information literacy.



20.05.2023, Chat GPT 4o

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Image sources

- Slide 1 and 24: ChatGPT 40 (22.05.2024) A vibrant and futuristic kitchen scene where generative AI tools are represented as holographic cooking utensils and ingredients. The kitchen is filled with a variety of colorful, glowing spices, exotic ingredients, and innovative cooking gadgets that symbolize AI tools. A chef, surrounded by these tools, is creating a dish with a sense of wonder and excitement. The scene should be dynamic, with digital elements blending seamlessly with traditional cooking, emphasizing the idea of AI adding new dimensions to the culinary process. The background can include a modern, high-tech kitchen setting with sleek, futuristic design elements.
- Slide 2:
 - Left: ChatGPT 4o (24.05.2024) An illustrative portrait of a femal historian who now works at university library working in digital curation and teaching prevention of plagiarism. she has short, wavy brown hair and wars glasses. She is wearing climbing gear to show her love for the outdoor sports. The background features bookshelves filled with old and modern books as well as computers to represent her background as historian working in the library. The style is more illustrative and artistic, with vibrant colours and defined lines. Please make the woman look kind of normal not overly pretty.
 - Richt: Microsoft Copilot (24.05.2025) A portrait of a female physicist lecturer with long, wavy darker brown hair reaching just about the elbows, brown eyes, and a Western European appearance. She is wearing a lab coat, holding a flute, and smiling with her mouth open showing her teeth. She looks around forty years old with subtle wrinkles on her face, a rather long face and not too skinny. The background resembles a mixture of a library and a scientific physics lab. The style is illustrative, with vibrant colors and defined lines. She wears no glasses, looks realistic and relatable, avoiding a sexist depiction and not overly feminine.
- Slide 4, 5: Illustration Competence Grid: Copyright of ETH Library.
- Slide 6: ChatGPT & DALL-E 3 (2023) Photorealistic scene from a cutting-edge technical university emphasizing information literacy. A South Asian female student is immersed in her research using a grand holographic display filled with academic content. Not far from her, an African male student efficiently cross-references materials with the help of multiple floating holographic books. The overall setting is a sophisticated learning environment, showcasing a library equipped with both traditional and futuristic tools (accessed: 16 October 2023).
- Slide 9: ChatGPT 40 (03.06.2024) A colorful and modern clipart representing the organization development of an academic library, featuring people engaging in various services. The services include a book for courses, a clock for consultation hours, a group of people for workshops, and an information stand. These icons are arranged in a circular layout around a central library icon. The color scheme prominently features the color #B7352D along with other bright colors. Additionally, there is an element resembling a circuit board with 'genAl' written on it, linking into the other services to represent the integration of generative Al tools into existing offers. Include diverse characters interacting with these elements.
- Slide 12, 16: Photos: Copyright of ETH Library.
- Slide 17: ChatGPT & DALL-E 3 (01.11.2023) Photo of a spacious classroom filled with sunlight. Every student has their own translucent green AI ghost-like assistant interacting with them. The students and their respective AI figures are deeply engaged in various activities: an African male student is in conversation with his AI about something on his laptop, a White male student gets a thumbs-up from his AI as feedback, an Asian female student and her AI examine a 3D hologram together, and a Black female student's AI leans in to suggest something about her handwritten work. The AIs are lively, devoid of gender-specific features, and play the central role in tutoring and feedback. On the side, a Hispanic female lecturer stands silently, observing the blend of traditional learning and futuristic AI assistance without any active intervention.
- Slide 18: Paschke, M., Sudau, M- and Mihálka, R., "Assessing the Potential of Artificial intelligence in Scientific Writing". Innovedum, ETH Zürich, 2023. / ETH Library