

# THE RESEARCHER AS A CURATOR IN THE AI ERA

Javier Guallar  
Universitat de Barcelona  
UAB, Doctoral Summer School  
June 29, 2026



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# Curation facing Scientific Information Overload in the AI Era

## Proposal:

- **Content Curation as a paradigm** for researchers in the current context of **scientific information overload** in the **AI era**.

## Three Keys:

- **Scientific information overload**
- **AI era**
- **Curation paradigm**

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# Scientific Information Overload in the AI Era

- **Academic information overload** due to the exponential growth of scientific literature indexed in global databases and repositories
- A shift is occurring from **traditional information saturation** in Academia to a **new environment driven by AI**: new rules in information retrieval, the emergence of algorithmically generated **synthetic texts**, and more
- **Traditional intellectual composition** is being challenged (debates on **authorship and AI**)
- The urgent need for a "**Pact for AI**" (*Codina, 2026*)

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# Risks for the Researcher

## Three major risks for the researcher:

### 1. **Epistemic laziness** (*Rodrigues, 2026*):

Voluntarily relinquishing cognitive and analytical effort because it is supplanted by AI: paper summaries, data overviews, theoretical frameworks, syntheses, and more

2. **“Distant writing”** (*Floridi, 2025*). With the use of AI, there is a tendency to distance oneself from thinking through and drafting one's own ideas and sentences, leading to a loss of intellectual proximity to one's own work

3. **Loss of conceptual autonomy** (loss of a unique and original perspective). Examples:

- **a) Subordination to AI biases:** e.g., if you delegate the synthesis of the theoretical framework to AI, the research will lack your vision (*Lopezosa & Goyanes, 2024*)
- **b) Illusion of competence** caused by the use of AI (*Codina, 2026*)

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# Toward Scientific Curation

- Scientific curation as a form of "**critical knowledge intermediation**" (*Reig, 2010; Guallar, Codina, & Hernández-Campillo, 2022*): the **researcher-curator** acts as an **expert filter** who selects and connects relevant information for the academic community
- "**Apt Curatorial Model**" based on **human intellectual value** (*Rodrigues, 2026*): The researcher maintains absolute control and ethical oversight of the research, utilizing AI as a supportive tool while contributing added value through critical reasoning



# Toward Scientific Curation

- Translation of the **4S's content curation method (Search, Select, Sense-making, Share)** (Guallar & Leiva-Aguilera, 2013; Guallar, 2020) from professional to scientific content



(Guallar, 2020)

# 4S CONTENT CURATION

METODOLOGÍA PARA LA INVESTIGACIÓN CIENTÍFICA EN LA ERA DE LA IA



# The First S: Algorithmic Alliance in Search

- The first "S" (Search) in literature review formulation entails a paradigm shift: transitioning from spending days, weeks, or months querying databases to establishing an **"algorithmic alliance" with AI to accelerate** this process
- **The risk of ambiguity:** Vague formulations inevitably yield mediocre results
- **Methodological framework:** Initially, researchers must construct a **human-driven keyword map**, subsequently leveraging AI for:
  - **Linguistic expansion** (optimizing boolean search syntax).
  - **Continuous automated monitoring** of the literature corpus.
  - **Identification of research gaps**
- **TIP:** Utilize artificial intelligence to monitor the expansive documentary landscape, expand search terms, and refine search syntax. However, researchers must invariably maintain strategic control over the investigation to ensure the search remains genuinely intelligent

# Second S: Evaluative Virtue in Select

- The second "S" (Select) within scientific curation entails exercising strict epistemic vigilance over the retrieved literature corpus.
- Deploying "**evaluative virtue**" (*Rodrigues, 2026*) allows researchers to act as second-order critical judges when evaluating synthetic data.
- Delineating **AI exclusively as an instrumental tool**, stripped of any epistemological authority.
- Implementing rigorous protocols to counteract algorithmic **hallucinations** and **bibliographic ghosts** (fabricated citations).
- Adhering to a "**critical filtering funnel**" to systematically vet the sources integrated into the research.

# Critical filtering funnel



## Veracity Filter

Mandatory verification of authorship and curated references



## Relevance Filter

Elimination of algorithmic syntactic noise by anchoring the selection process to the core research objectives and questions



## Diversity Filter

Active mitigation of algorithmic blindness and inherent artificial intelligence biases

# The Third S: Academic Sense- Making

- Executing the third "S" (Sense-making) for the **integration and transformation of sources and data** within the research manuscript
- Countering "**distant writing**" through the steadfast pursuit of **intellectual proximity** to one's own work
- Centering the **researcher's distinct voice** as the exclusive backbone of the **scholarly argument**
- Developing advanced **techniques for scientific sense-making**

# Scientific Sense-Making Techniques



**Summarizing (emphasis on research perspective):** AI models generate generic summaries. The synthesis of curated content must reflect the author's exclusive viewpoint



**Recontextualizing:** AI models typically offer generalized syntheses. The researcher must adapt these outputs, relying on independent criteria, to align with the specific temporal, geographical, and social framework of their own study



**Connecting and Commenting:** Identifying critical correlations between authors, concepts and data; Contributing a distinct, original perspective (**Discussion** section)

# The Fourth S: Transparency in Sharing

- **Transparency** as the Guiding Principle of the fourth "S" (Share), achieved through the exhaustive documentation and formal **traceability** of all research processes.
- Adoption of **rigorous editorial standards** regarding AI integration, adhering to recent frameworks such as **CRITERIA** (Codina et al., 2026) and other proposals (Resnik & Hosseini, 2025).
- **Explicit methodological disclosure** of the AI tools deployed, specifying their functional scope and providing the utilized prompts as open-access datasets.
- **Prioritizing the researcher's distinct voice** during the subsequent **dissemination of research** across various scientific communication channels, including social media, academic blogs, and podcasts.

# Conclusion: Human Value in Research

The absolute primacy of **ontological understanding, ethics, and human cognition** over the probabilistic inertia of artificial intelligence systems

The exclusive agency of **the researcher-curator** in **directing the investigative process** and contributing a distinct, critical perspective to the study

The future of **scientific research** and science itself, conceptualized as a fundamentally **human conversation**—albeit one enhanced by artificial intelligence assistance



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# AI use statement



- **AI and technical assistance:** Google NotebookLM, Gemini, and Nano Banana, alongside Microsoft PowerPoint, were utilized as supportive tools in the preparation of this presentation
  - **Author responsibility:** The conceptual framework, source selection, literature analysis, and the proposed scientific curation methodology remain the sole responsibility of the author
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# ¡Gracias!

Javier Guallar  
Universitat de Barcelona  
[jguallar@gmail.com](mailto:jguallar@gmail.com)  
<https://jguallar.substack.com/>

