

Information literacy in academic context: a "scientific" media education?

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Information Literacy, a "scientific" media education?

"Information literacy and media literacy have the same objective – training people to access, understand, evaluate, communicate, use, and create media messages and information. Both highlight the importance of the ethical use of information, the critical analysis of content, the use of multimedia platforms, and knowledge production."*

- Competency in searching, evaluating, and using information
- Based on critical thinking and ethics
- Need for educations and trainings





What's on at ULiège Library?

How are we organised and what do we do about information literacy?

Working group on Information literacy teaching and research support at ULiège



(WG SUPPER – SUPPort of Education and Reasearch)





Coordinating the teaching of information literacy

- Scheduled courses
- Information Literacy



Training

Coordinate one-off training outside the curriculum



Research

Coordinating support for researchers

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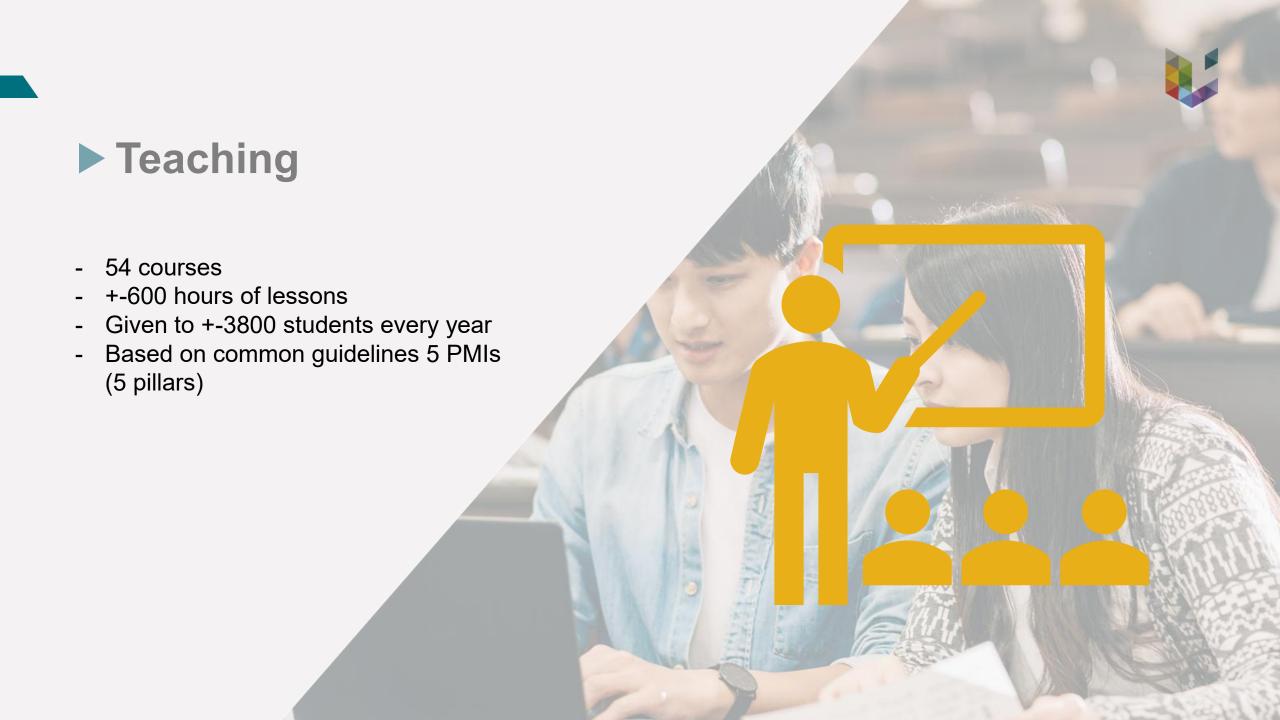
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Coordinate one-off training outside the curriculum



Research

Coordinating support for researchers

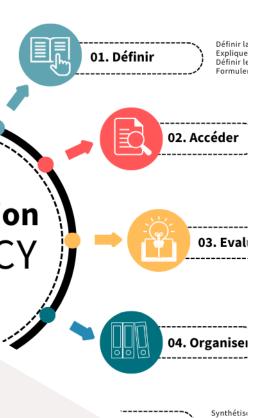












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02 Did you say 5 PMIs?



Information Literacy 5 PMIs, 5 PMWhat?

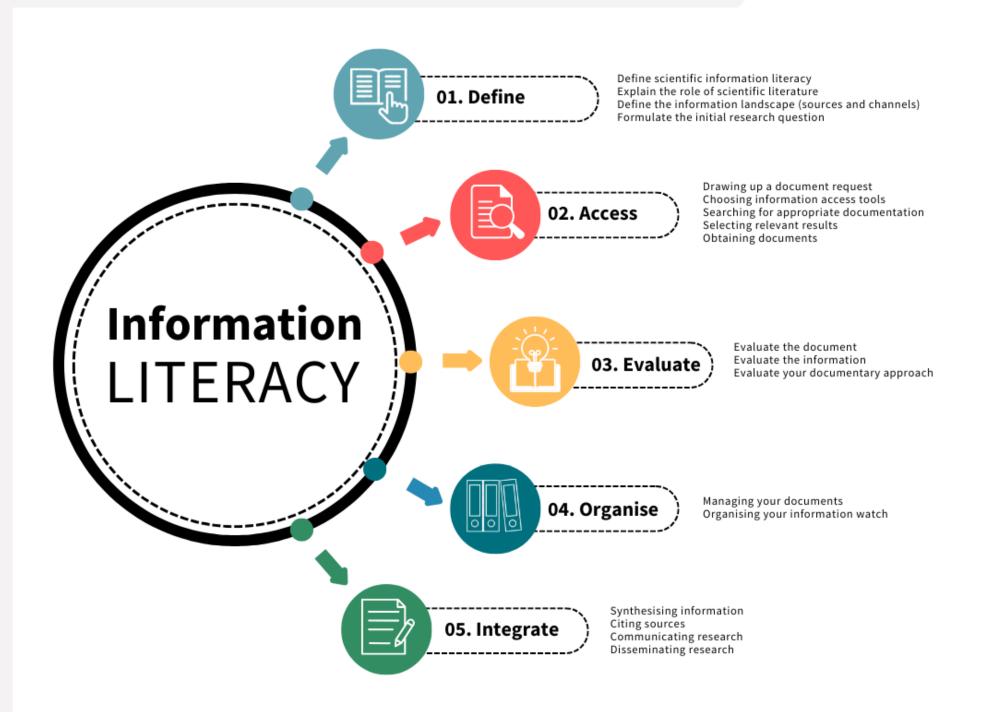


Throughout

Teaching

Training

Research support





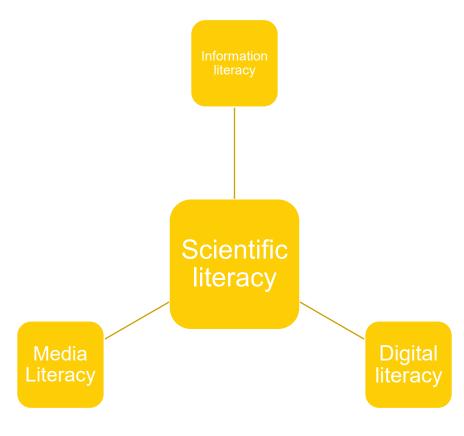


Scientific rhetoric: an example

Information literacy: the only literacy?



Information literacy in science involves two other literacies: understanding scientific media (platform, publishers, etc.) and the technical use of digital tools. Information literacy without media literacy and digital literacy is useless.

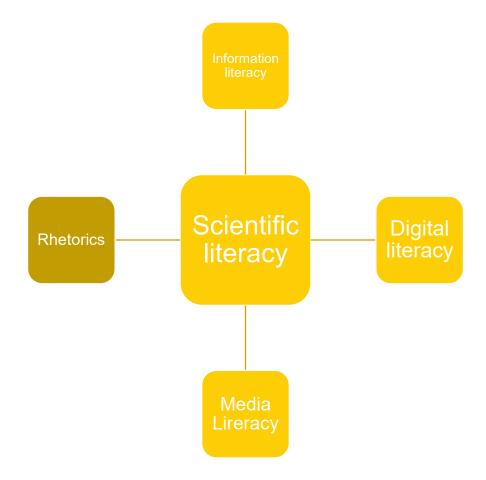


Freely adapted from Sabine Bosler, Media Education in the Digital Age. Franco-German Perspectives, Clermont-Ferrand, Blaise Pascal University Press, "Educational Sphere" collection, 2024, 348 p., preface by Georges-Louis Baron.

Information literacy: the only literacy?



Media and information literacy require rhetorics to assess the nature and quality of documents and information.

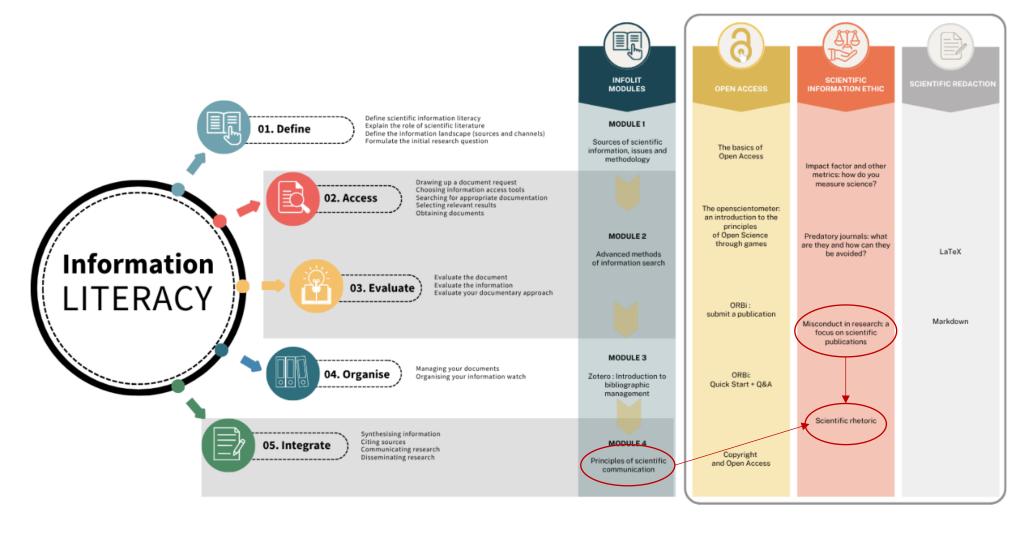


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TRANSVERSAL TRAINING

ON SCIENTIFIC INFORMATION LITERACY





Scientific communication and scientific rhetoric: two sides of the same coin



Media and information literacy require rhetorics assess the nature and quality of documents and information.

Scientific communication

Prescriptive and applied approach: learning to write and communicate according to the communication standards of field and discipline.

Scientific rhetorics

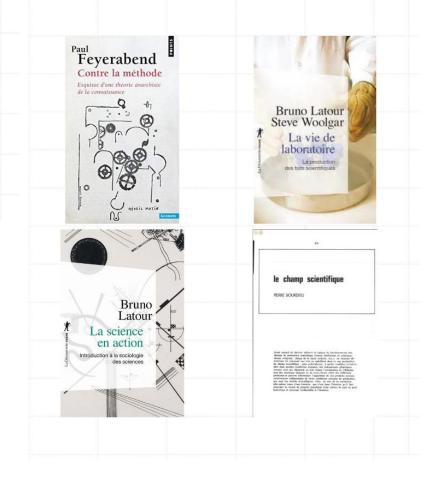
Descriptive and theoretical approach: learning to read and analyze scientific the evaluate its quality and understand how it works.



Scientific rhetorics: between rhetoric and sociology of science









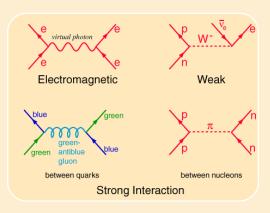
Chaïm Perelman



Scientific rhetorics: various example



Examples from Textbooks on Egg and Speri Description		Reference
Female - egg - Role	Male - sperm - Role	(Martin, 1991: pp)
Menstruation as a disintegration of form.	Sperm tails can "propel the semen into the deepest recesses of the vagina."	Guyton, 1984
Menstruation as a failed production. All of the ovarian follicles containing ova are already present at birth, they slowly degenerate and age.	"Perhaps the most amazing characteristic of spermatogenesis is its sheer magnitude."	Vander et al, 1980
"The female sheds only a single gamete each month."	"The seminiferous tubules produce hundreds of millions of sperm each day."	Mountcastle, 1980
"Oogenesis is wasteful", The egg is rescued by the sperm.	Sperm are small, "streamlined", with "strong" tails and efficiently powered.	Alberts et al, 1983
"From the tip of the sperm's triangular head, long, thin filament shoots out and harpoons the egg".		Schatten et al, 1984
The sperm penetrates the egg and fertilizes it.		Wassarman, 1988





Writing

Studying scientific style (use of pronouns, grammatical mode, diathesis, vocabulary).

<u>Image</u>

Studying how images construct knowledge, support argumentation, and facilitate understanding.

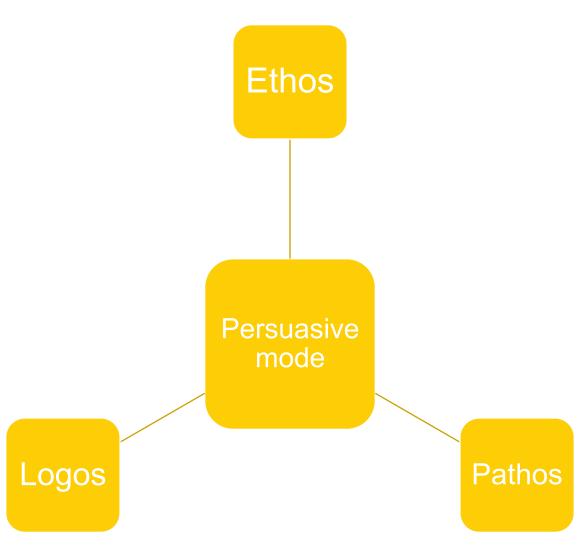
Storytelling

Studying how storytelling and the use of metaphors construct scientific knowledge and influence reception.



Rhetorics triangle









Scientific rhetoric: hands-on!



Dunning-Kruger bias

Halo effect bias

Article Hydroxychlorochine

Article MMR





03



Scientific rhetoric: a little feedback

"For ethical reasons and because our first results are so significant and evident we decided to share our findings with the medical community, given the urgent need for an effective drug against SARS-CoV-2 in the current pandemic context"

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Int J Antimicrob Agents. 2020 Jul; 56(1): 105949.

Published online 2020 Mar 20. doi: 10.1016/j.ijantimicag.2020.105949

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Philippe Gautret, a,b,\$ Jean-Christophe Lagier, a,c,\$ Philippe Parola, a,b Van Thuan Hoang, a,b,d Line Meddeb, a Morgane Mailhe, a Barbara Doudier, Johan Courjon, e,f,g Valérie Giordanengo, Vera Esteves Vieira, a Hervé Tissot Dupont, a,c Stéphane Honoré, ij Philippe Colson, a,c Eric Chabrière, a,c Bernard La Scola, a,c Jean-Marc Rolain, a,c Philippe Brouqui, a,c and Didier Raoulta,c,*

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See editorial "Publishing in face of the COVID-19 pandemic" in Int J Antimicrob Agents, volume 56 on page 106081.



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"For ethical reasons and because our first results are so significant and evident we decided to share our findings with the medical community, given the urgent need for an effective drug against SARS-CoV-2 in the current

pandemic context"

"Such results are promising and open the possibility of an international strategy to decision-makers to fight this emerging viral infection in real-time even if other strategies and research including vaccine development could be also effective, but only in the future. We therefore recommend that COVID-19 patients be treated with hydroxychloroquine and azithromycin to cure their infection and to limit the transmission of the virus to other people in order to curb the spread of COVID-19 in the world. Further works are also warranted to determine if these compounds could be useful as chemoprophylaxis to prevent the transmission of the virus, especially for healthcare workers. Our study has some limitations including a small sample size, limited long-term outcome follow-up, and dropout of six patients from the study, however in the current context, we believe that our results should be shared with the scientific community.