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Research areas

I am an Assistant Professor at the University of Southern Denmark. Formed in Canada, Denmark, Sweden, and Belgium, I hold a Ph.D. *summa cum laude* in Cognitive Computing and a Masters in Philosophy, both from the University of Quebec in Montreal, as well as a Bachelor's degree in Political Science from the University of Montreal. Both as postdoc and data scientist, I also worked for various organisations interested in various aspects of scholarly communication.

Based on the joint and automated use of data-driven and linguistic techniques, my investigative efforts focus on scholarly writing in various contexts, from peer-reviewed publications and grant funding applications to scientific popularization texts and speeches. My aim as a researcher is to contribute to the understanding of knowledge sharing and dissemination mechanisms as well as of the cultural and social factors that drive them.

Research areas

Quantitative Science Studies

Computational Linguistics

Computational Social Science

Information Science

Current External Affiliations

- 2025 - ... Member, Chaire de recherche du Québec sur la découvrabilité des contenus scientifiques francophones
- 2024 - ... Visiting Scholar, Danish Center for Studies in Research and Research Policy, Aarhus University
- 2024 - ... Member, UNESCO Chair on Open Science, Université de Montréal

Qualifications

- 2015 Ph.D., Cognitive Computing, Université du Québec à Montréal
- 2008 M.A. Philosophy, Université du Québec à Montréal
- 2000 B.Sc. Political Science, Université de Montréal

Peer-Reviewed Articles

1. Sainte-Marie MH, Kozlowski D, Céspedes L, Larivière V. **Sorting the Babble in Babel: Assessing the Performance of Language Detection Algorithms on the OpenAlex Database.** Journal of the Association for Information Science and Technology . 2025 Feb 5.
2. Céspedes L, Kozlowski D, Pradier C, Sainte-Marie MH, Shokida NS, Benz P et al. **Evaluating the Linguistic Coverage of OpenAlex: An Assessment of Metadata Accuracy and Completeness.** Journal of the Association for Information Science and Technology . 2025 Jun;76(6):884-895. Epub 2025 Jan 14. doi: 10.1002/asi.24979
3. Holmberg TT, Sainte-Marie M, Jensen EK, Linnet J, Runge E, Lichtenstein MB et al. **An analysis of patient motivation for seeking online treatment for binge eating disorder—A mixed methods study combining systematic text condensation with sentiment analysis.** Frontiers in Psychiatry. 2022 Nov 4;13:969115. doi: 10.3389/fpsy.2022.969115
4. Horbach SPJM, Schneider JW, Sainte-Marie M. **Ungendered writing: Writing styles are unlikely to account for gender differences in funding rates in the natural and technical sciences.** Journal of Informetrics. 2022 Nov;16(4):101332. doi: 10.1016/j.joi.2022.101332
5. Paul-Hus A, Mongeon P, Sainte-Marie M, Larivière V. **Who are the acknowledgees? An analysis of gender and academic status.** Quantitative Science Studies. 2020 Jun;1(2):582-598. doi: 10.1162/qss_a_00036
6. Sainte-Marie M, Mongeon P, Larivière V. **On the Topicality and Research Impact of Special Issues.** Quantitative Science Studies. 2020;1(1):303-319. doi: 10.1162/qss_a_00009
7. Quan W, Mongeon P, Sainte-Marie MH, Zhao R, Larivière V. **On the development of China's leadership in international collaborations.** Scientometrics. 2019 Aug;120:707-721. doi: 10.1007/s11192-019-03111-1

8. Cameron-Pesant S, Sainte-Marie M, Jansen Y, Lariviere V. **Criminologie just a click away: A usage analysis of the digital journal**. *Criminologie*. 2018;51(1):111-142. doi: 10.7202/1045310ar
9. Bérubé N, Sainte-Marie M, Mongeon P, Larivière V. **Words by the tail: Assessing lexical diversity in scholarly titles using frequency-rank distribution tail fits**. *PLOS ONE*. 2018;13(7):e0197775. doi: 10.1371/journal.pone.0197775
10. Paul-Hus A, Díaz-Faes AA, Sainte-Marie M, Desrochers N, Costas R, Larivière V. **Beyond funding: Acknowledgement patterns in biomedical, natural and social sciences**. *PLOS ONE*. 2017 Oct 1;12(10):e0185578. doi: 10.1371/journal.pone.0185578
11. Paul-Hus A, Mongeon P, Sainte-Marie M, Larivière V. **The sum of it all: revealing collaboration patterns by combining authorship and acknowledgements**. *Journal of Informetrics*. 2017 Feb;11(1):80-87. doi: 10.1016/j.joi.2016.11.005
12. Sainte-Marie MB, Meunier JG, Payette N, Chartier JF. **The concept of evolution in the Origin of Species: a computer-assisted analysis**. *Literary and Linguistic Computing*. 2011 Sept;26(3):329-334. doi: 10.1093/lc/fqr019

Peer-reviewed Conference Articles

1. Sainte-Marie M, Pedersen AD, Mongeon P. **Reporting transparency in analysis of variance assumption testing**. In Glanzel W, Heeffer S, Chi PS, Rousseau R, editors, 18th International Conference on Scientometrics and Informetrics, ISSI 2021. International Society for Scientometrics and Informetrics. 2021. p. 967-978
2. Sainte-Marie M, Mongeon P, Larivière V. **Are special issues that special? Distinctiveness and impact of special issues in LIS journals**. In Catalano G, Daraio C, Gregori M, Moed HF, Ruocco G, editors, 17th International Conference on Scientometrics and Informetrics, ISSI 2019 - Proceedings. International Society for Scientometrics and Informetrics. 2019. p. 1122-1127
3. Mongeon P, Sainte-Marie M, Simard MA. **Lexical diversity as an indicator of journal scope**. In Catalano G, Daraio C, Gregori M, Moed HF, Ruocco G, editors, 17th International Conference on Scientometrics and Informetrics, ISSI 2019 - Proceedings. Vol. 2. International Society for Scientometrics and Informetrics. 2019. p. 2547-2548
4. Paul-Hus A, Mongeon P, Sainte-Marie M, Larivière V. **Who acknowledges who? A gender analysis**. In Catalano G, Daraio C, Gregori M, Moed HF, Ruocco G, editors, 17th International Conference on Scientometrics and Informetrics, ISSI 2019 - Proceedings. Vol. 1. Edizioni Efesto. 2019. p. 471-476
5. Sainte-Marie M, Larivière V, Ridenour L. **Examining Communities in the Transdisciplinary Area of Cognitive Science: Automatic Classification for Examining Communities in the Web of Science Using Unsupervised Clustering Methods**. *Advances in Classification Research Online*. 2018;27-29. doi: 10.7152/acro.v29i1.15463
6. Sainte-Marie M. **The road to direction: International Conference on Spatial Cognition IX, Spatial Cognition 2014**. In Freksa C, Nebel B, Hegarty M, Barkowsky T, editors, Spatial Cognition IX: International Conference, Spatial Cognition 2014, Bremen, Germany, September 15-19, 2014. Proceedings. 2014. p. 206-221. (Lecture Notes in Computer Science, Vol. 8684). doi: 10.1007/978-3-319-11215-2_15

Other Contributions

1. Sainte-Marie M, Mongeon P, Larivière V. **Do You Cite What I Mean? 23rd International Conference on Science and Technology Indicators**. 2018. Paper presented at 23rd International Conference on Science and Technology Indicators, Leiden, Netherlands.
2. Mongeon P, Paul-Hus A, Archambaut A, Cameron-Pesant S, Sainte-Marie M, Larivière V. **On the citation gap of articles naming countries**. 2017. Paper presented at 16th International Conference on Scientometrics and Informetrics, ISSI 2017, Wuhan, China.
3. Sainte-Marie M, Locat A, Lejeune A, Vidot-Delerue H. **Vie privée et agrégation d'informations personnelles: 16th International Conference of the Association Information and Management 2011, AIM 2011**. 2011. Paper presented at 16th International Conference of the Association Information and Management 2011, AIM 2011, Saint-Denis de La Reunion, France.

Committees

2025	Consultant, Social Sciences and Humanities Research Council of Canada
2020	Consultant, Canadian Association for Information Science
2018	Consultant, Responsible Conduct of Research Policy Committee, Université de Montréal
2016	Consultant, Canadian Association for Graduate Studies
2014	Member, Cognitive Computing Doctoral Program Committee, Université du Québec à Montréal

Reviewer

2023 -	Communications Psychology
2023 - ...	PLOS One
2023 - ...	Scientific Reports

2023 - ... BMC Medical Research Methodology
2020 - ... Public Understanding of Science
2019 - ... ASLIB Journal of Information Management
2019 - ... Quantitative Science Studies
2019 - ... Royal Society Open Science
2019 - ... Lato sensu: Revue de la société de philosophie des sciences
2018 - ... Journal of the Association for Information Science and Technology
2018 - ... PeerJ
2018 - ... Canadian Journal of Information and Library Science
2018 - ... Journal of Economic Methodology
2018 - ... Scientometrics
2017 - ... Journal of Informetrics
2017 - ... Criminologie
2010 - ... Digital Scholarship in the Humanities (formerly Literary and Linguistic Computing)