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Employment History




- Since November 2021  **Data manager (Statistician and Research assistant)**, Montreal Behavioural Medicine Centre (MBMC).
- September 2019 – April 2021  **Teaching assistant**, Department of Mathematics and Statistics at Laval University.
- November 2015 – December 2015  **Intern**, Central Bank of Congo.

Education

- 2019 – 2021  **M.Sc. in Statistics**, Laval University.
Thesis title: *On some concepts of Dirichlet process.*
- 2010 – 2016  **B.Sc. in Mathematics (Magna Cum Laude)**, University of Kinshasa (D.R.Congo)
Thesis title: *Evaluation of European options using simulations.*







Research Publications

Papers and preprints




- 1 K. L. Lavoie, F. C. Raymond, L. Hébert-Auger, *et al.*, “Attitudes and behaviours of canadians towards covid-19 prevention measures according to vaccination status: A multi-phase, cross-sectional observational cohort study,” *The Lancet Public Health*, 2024 (Submitted).
- 2 C. Mayemba, D. Nkashama, J. Tshimula, *et al.*, “A short survey of human mobility prediction in epidemic modeling from transformers to LLMs,” *arXiv preprint*, 2024.  DOI: <https://doi.org/10.48550/arXiv.2404.16921>.
- 3 N. Tremblay, C. Léger, F. Deslauriers, *et al.*, “Relational conflicts during covid-19: Impact of loss and reduction of employment due to prevention measures and the influence of sex and stress (in the icare study),” *Journal of Health Psychology*, 2024.  DOI: <https://doi.org/10.1177/13591053241260672>.
- 4 J. Tshimula, M. Kalengayi, D. Makenga, *et al.*, “Artificial intelligence for public health surveillance in africa: Applications and opportunities,” *arXiv preprint*, 2024.  DOI: <https://doi.org/10.48550/arXiv.2408.02575>.

Conference Proceedings

- 1 F. Acosta, R. C. Tamara, S. L. Bacon, K. L. Lavoie, M. Dialufuma, and T. Ben-Porat, “On behalf of the reborn study team, Maladaptive eating behaviours in the long-term post-metabolic bariatric surgery: Implications for weight loss outcomes,” in *Proceedings of the annual Conference of the Canadian Association of Bariatric Physicians and Surgeons*, Montréal, Canada, April 26-27, 2024.
- 2 J. Burdick, M. Côté, K. Lavoie, M. Dialufuma, S. L. Bacon, and T. Ben-Porat, “On behalf of the reborn study team, Self-esteem trajectories following metabolic bariatric surgery and their association with physical activity levels at 5 years,” in *Proceedings of the annual Conference of the Canadian Association of Bariatric Physicians and Surgeons*, Montréal, Canada, April 26-27, 2024.
- 3 M. Côté, S. Olivero, S. Bacon, K. L. Lavoie, M. Dialufuma, and T. Ben-Porat, “On behalf of the reborn study team, Emotional eating trajectories following metabolic and bariatric surgery (mbs): Associations with 5-year weight loss outcomes,” in *Proceedings of the annual Conference of the Canadian Association of Bariatric Physicians and Surgeons*, Montréal, Canada, April 26-27, 2024.

- 4 F. Deslauriers, C. Léger, S. L. Bacon, *et al.*, “On behalf of the icare study team. icare report: Emotional, health, occupational and social impacts of the length of recommended covid-19 isolation periods in individuals with covid-19 symptoms or a positive test,” in *Presenting for the Public Health Agency of Canada (PHAC) to iCARE collaborators*, Canada, November 17, 2022.  URL: <https://icare.mbm-cmc.ca/results-findings/publications/>.
- 5 A. Fortin, K. Lavoie, P. Marion, *et al.*, “A co-constructed survey on how to better support patients undergoing metabolic and bariatric surgery,” in *Proceedings of the 38th Annual Conference of the European Health Psychology Society*, Cascais/Estoril, Portugal., September 6, 2024.  URL: https://ris.utwente.nl/ws/portalfiles/portal/460512736/ehps-2024_abstracts-Page-numbers.pdf.
- 6 G. Molloy, S. Bacon, K. Lavoie, H. Durand, M. Atoui, and M. Dialufuma, “On behalf of the icare study team, Motivations to get covid-19 vaccinations: A cross-sectional lifespan analysis of an irish icare study sample,” in *Proceedings of the 36th Annual Conference of the European Health Psychology Society*, Bratislava, Slovakia., August 23-27, 2022.  URL: <https://icare.mbm-cmc.ca/results-findings/publications/#presentations>.
- 7 J. Tshimula, D. Nkashama, J. Muabila, *et al.*, “Psychological profiling in cybersecurity: A look at LLMs and psycholinguistic features,” in *Proceedings of the 25th International Web Information Systems Engineering Conference (WISE 2024)*, 2024 (Accepted).  DOI: <https://doi.org/10.48550/arXiv.2406.18783>.
- 8 V. Boucher, M. Beranek, M. Lemos, *et al.*, “Attitudes towards mask wearing and social gathering between april 2021 and september 2022 in five countries in the icare study,” in *Proceedings of the 10th Conference of the International Behavioural Trials Network*, Montréal, Canada, 2024.  URL: <https://icare.mbm-cmc.ca/results-findings/publications/#posters>.
- 9 J. Tshimula, D. Nkashama, K. Kalala, *et al.*, “Redesigning electronic health record systems to support developing countries,” in *Proceedings of the 2023 7th International Conference on Medical and Health Informatics*, Tokyo, Japan, 2023, pp. 216–221.  DOI: <https://doi.org/10.1145/3608298.3608338>.

Skills

Languages	 English and French
Coding	 GPower, \LaTeX , Microsoft office, R, Python, SAS and SQL.
Misc.	 Academic research and consultation.

Miscellaneous Experience

Awards and Achievements

Fall 2019 – Winter 2021	 Excellence scholarship , Master’s in Statistics.
Winter 2021	 Sobeys scholarship .

Affiliation

Statistical Society of Canada	 Affiliate member
Association des Statisticiens(nes) du Québec	 Statistician member (Stat. ASSQ)
Researcher at GREPROVAD	 Affiliate member (https://www.greprovad.org/)

References

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