

Maximilien VAKAMBI DIALUFUMA
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OBJECTIVES

- Communication skills;
- Research skills, ability to analyze, synthesize and make judgments;
- Interpersonal work skills;
- Programming skills;
- Demonstrates thoroughness and attention to detail;
- Affiliate member of the Statistical Society of Canada (SSC);
- Statistician member (Stat. ASSQ) of Association des Statisticiennes et Statisticiens du Québec (ASSQ);
- Researcher at GREPROVAD (<https://www.greprovad.org/>);

EDUCATION

- 2019 -2021 : Master's degree in Statistics, Laval University (Canada);
- 2010 - 2016 : Bachelor in Mathematical Sciences (Magna Cum Laude), University of Kinshasa (D.R.Congo);

EXPERIENCES

- **November 2021 to present** : Data manager (Statistician, Research assistant) at the Montreal Behavioural Medicine Centre (MBMC) :
 - Ensure quality and consistency of all statistical variables for the International COVID-19 Awareness and Responses Evaluation (ICARE) study;
 - Ensure quality and consistency of all statistical variables for the REBORN (Research on bariatric care for obesity treatment) study;
 - Ensure the quality and consistency of all statistical variables for the EMBRACE (Evaluation the impact of radical nutrition and microbiome changes on brain function and structure) study;
 - Maintain or create data dictionaries;
 - Perform statistical analyses with the collected data;
 - Assists in the preparation of reports, manuscripts and presentations of analysis results.
- **September 2019 to April 2021** : Teaching assistant in the Department of Mathematics and Statistics at Laval University;
- **November to December 2015** : Intern at the Central Bank of Congo.

SKILLS

- Gpower, LaTeX, Logiciel R

- Microsoft office, Python, SAS, SQL

RESEARCH INTERESTS

- Actuarial science
- Data science
- Probability and Statistics

LANGUAGES

- English
- French

DISTINCTIONS

- Excellence scholarship - Master's in Statistics : Fall 2019 - Winter 2021
- Sobeys scholarship (Winter 2021)

PUBLICATION AND CONFERENCE

- Noémie Tremblay, Camille Léger, Frédérique Deslauriers, Lydia Hébert Auger, Vincent Gosselin Boucher, Simon Bacon, **Maximilien Dialufuma**, Kim L Lavoie (2024). **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. <https://doi.org/10.1177/13591053241260672>
- Tshimula, Jean Marie, et al (2024). **Artificial Intelligence for Public Health Surveillance in Africa : Applications and Opportunities**. arXiv preprint. <https://doi.org/10.48550/arXiv.2408.02575>
- Vincent Gosselin Boucher, Mathieu Beraneck, Mariantonia Lemos, Gerry Molloy, Valeria Raparelli, **Maximilien V. Dialufuma**, Simon Bacon, Kim Lavoie, Eli Puterman, for the iCARE study team (May 16-18, 2024) **Attitudes Towards Mask Wearing and Social Gathering Between April 2021 and September 2022 in five countries in the iCARE Study** , 10th Conference of the International Behavioural Trials Network, Montréal, Canada.
- Tshimula, J. M., Nkashama, D. J. K., Muabila, J. T., Galekwa, R.M., Kanda H. **Dialufuma, M. V.**, Didier, M. M. et al. (2024). **Psychological Profiling in Cybersecurity : A Look at LLMs and Psycholinguistic Features**. arXiv preprint <https://doi.org/10.48550/arXiv.2406.18783>
- Mayemba, C. N., Nkashama, D. J. K., Tshimula, J. M., **Dialufuma, M. V.**, Muabila, J. T., Didier, M. M. et al. (2024). **A Short Survey of Human Mobility Prediction in Epidemic Modeling from Transformers to LLMs**. arXiv preprint <https://doi.org/10.48550/arXiv.2404.16921>
- Patricia F.C. Acosta, Tamara R. Cohen , Simon L. Bacon, Kim L. Lavoie, **Maximilien V. Dialufuma**, Tair Ben-Porat, on behalf of the REBORN Study (April 26-27, 2024) Team, **Maladaptive eating behaviours in the long-term post-metabolic bariatric surgery : Implications for weight loss outcomes**, the annual Conference of the Canadian Association of Bariatric Physicians and Surgeons, Montréal, Canada.
- Côté, Marilou, Olivero, Stephanie, Bacon, Simon L., Lavoie, Kim L., **Maximilien V. Dialufuma**, Tair Ben-Porat, on behalf of the REBORN Study (April 26-27,

- 2024)Team, **Emotional eating trajectories following metabolic and bariatric surgery (MBS) : Associations with 5-year weight loss outcomes**, the annual Conference of the Canadian Association of Bariatric Physicians and Surgeons, Montréal, Canada.
- Tshimula J.M., Nkashama D., Kalonji K., **Dialufuma M.V.**, Mukendi D.M., Kanda H., Tshibangu J.M, Mayemba C.N, (May 12-14, 2023) **Redesigning Electronic Health Record Systems to Support Developing Countries.**, 7th International Conference on Medical and Health Informatics, Kyoto, Japan. [url : https://doi.org/10.1145/3608298.3608338](https://doi.org/10.1145/3608298.3608338)
 - Deslauriers, F., Léger C., Bacon, S. L., Atoui, M., **Dialufuma, M.**, Atto, J. E., Duval, S., Lavoie, K. L. 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.** Presented for the Public Health Agency of Canada (PHAC) to iCARE collaborators via Zoom on November 17, 2022. [url : https://www.youtube.com/watch?v=LmzGhu_W-GY](https://www.youtube.com/watch?v=LmzGhu_W-GY)
 - Molloy G.J., Bacon S.L., Lavoie K.L., Durand H., Atoui M., **Dialufuma M.**, on behalf of the ICARE study team (August 23-27, 2022) **Motivations to get Covid-19 vaccinations : A cross-sectional lifespan analysis of an Irish iCare study sample.**, 36th Annual Conference of the European Health Psychology Society, Bratislava, Slovakia. [url : https://research.ou.nl/ws/portalfiles/portal/49810246/ehps22_abstracts_1_.pdf](https://research.ou.nl/ws/portalfiles/portal/49810246/ehps22_abstracts_1_.pdf)