

**Maximilien VAKAMBI DIALUFUMA**  
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**Web : <https://dialufuma.github.io/>**

## OBJECTIVES

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- 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

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- 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

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- **Consultation (January - March 2024) :**
  - Statistical consultant for the Congo-Challenge project ("*Enquête sur le temps moyen de déplacement Maison-Travail dans la ville de Kinshasa*", pg 54-61, [url : https://congochallenge.cd/wp-content/uploads/2024/03/Fevrier-Mensuel-2024.pdf](https://congochallenge.cd/wp-content/uploads/2024/03/Fevrier-Mensuel-2024.pdf)).
  - Statistical consultant for the article project (*Importance of endometrial biopsy in infertility management in low-income settings*) with Dr. Junior Mboloko (Faculty of Medicine, University of Kinshasa, D.R. Congo).
- **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 analytical 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

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- Gpower, LaTeX, Logiciel R
- Microsoft office, Python, SAS, SQL

## RESEARCH INTERESTS

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- Actuarial science
- Data science
- Probability and Statistics

## LANGUAGES

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- English
- French

## DISTINCTIONS

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

## PUBLICATION AND CONFERENCE

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- Noémie Tremblay, Camille Léger, Frédérique Deslauriers, Lydia HébertAuger, 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 (Accepted).
- Vincent Gosselin Boucher, Mathieu Beranek, 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)