Yao Robert Djogbenou

Curriculum Vitae, 2024-10-07

Department of Demography, Université de montréal

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Robert Djogbenou recently completed his PhD in demography from the Université de Montréal (Canada). His research interests include the study of international migration and immigrant integration, ethnoracial diversity, health indicators and gender inequalities. Methodologically, he primarily relies on machine learning applications for survey data and text data, and more, bibliometric analysis, natural language processing (NLP), large language models (LLMs), generative AI for NLP, with a strong focus on applying AI to address causal inference questions. He also has an active interest in advanced statistical methods (structural equation modeling and time series methods), observational data for modeling and understanding demographic outcomes.

Education

Université de Montréal	Montreal (QC), Canada
PhD in Demography[1]	*Septembre 2024*

Dissertation Title: Quatre essais sur l'intégration des immigrants au Canada: mise en perspective des approches computationnelles, des données textuelles et d'enquêtes traditionnelles *(Four Essays on the Integration of Immigrants in Canada: A Perspective on Computational Approaches, Text Data, and Traditional Survey Data)*.
Dissertation Advisors: Vissého Adjiwanou Ph.D., and Solène Lardoux, Ph.D.

Great Learning	Online course
Generative AI for Natural Language Processing	*December 2023-April 2024*
University of Texas	Austin, USA
Post Graduate Program in Artificial Intelligence and Machine Learning	*2021*
Institut de Formation et de Recherche Démographiques (IFORD)	Yaounde, Cameron
Master in Demography [2]	*2016*
Université d'Abomey-Calavi	Abomey-Calavi, Benin
BSc in Statistics and Econometrics [3]	*2013*

Additional methods training

2020: Topics in Digital and Computational Demography   Max Planck Institute for Demographic Research, Germany

2020: Data visualization – the art/skill cocktail   Max Planck Institute for Demographic Research, Germany

2020: Intensive training in computer-assisted text analysis   Université du Québec à montréal, Montreal, Canada

2020: Workshop on Bayesian analysis with Stan (+R)   McGill University, Montreal, Canada

2019: Summer School in Computational Social Sciences, Migration and Integration   Sardinia, Italy

2018: Summer Institute in Computational Social Science   University of Cape Town, South Africa

Publications

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[1] with the highest distinction
[2] with the highest distinction
[3] with distinction

Peer-reviewed Articles

Robert Djogbenou, Vissého Adjiwanou and Solène Lardoux (2024). Exploring Sixty-Two Years of Research on Immigrants' Integration Using Structural Topic Modeling-Based Bibliometric Analysis, *Journal of International Migration and Integration*

Affo M. A, Djogbenou R., Saizonou J., Acotcheou P., Dansou J. (2019). Influence de l'homme sur les Besoins non satisfaits en matière de planification familiale chez les femmes en union au Bénin, *International Journal of Innovation and Applied Studies*, 27 (2): 654-672

Affo M. A., Djogbenou R., Acotcheou P., Tossou R. (2019). Genre et attitudes de stigmatisation à l'égard des Personnes vivant avec le VIH au Bénin, *African Population Studies*, 33(1):4750-4765

Articles under review

Robert Djogbenou, Vissého Adjiwanou and Solène Lardoux (2024). **Immigration and Integration Discourses in the Canadian Provinces of Quebec and Ontario from 1988-2022: An Analysis of Topics, Sentiments, and Trends in Newspaper Text.** Article submitted in *Canadian journal of Political Science.*

Robert Djogbenou, Vissého Adjiwanou and Solène Lardoux (2024). **Immigrants' sense of belonging in Quebec: The role of perceived discrimination and participation in associations and sport.** Article submitted in *Journal of Ethnic and Migration Studies.*

Robert Djogbenou, Vissého Adjiwanou and Solène Lardoux (2024). **The effect of gender and national origin on the sport and leisure participation of immigrants in Quebec.** Article submitted in *Managing Sport and Leisure*

Book chapters

Dansou J., Dake F., Djogbenou R. (2022). 'Before Pills and Injectables : Systematic review of drivers of traditional contraceptive practice in sub-Saharan-Africa'. *In Routledge Handbook of African Demography (264 -283)* edited by Cliford O. Odimegwu and Yemi Adewoyin. Routledge publications

Djogbenou R., Diallo A. et Fika B. H. (2020). 'Itinéraires thérapeutiques des personnes âgées et facteurs associés au Cameroun'. *In La vieillesse entre le médical et le social. Enjeux de santé, de dépendance et d'accompagnement de la fin de vie (p. 31-50)* edited by Sophie Pennec and Michel Oris. Publications of AIDELF - Carrefour de la démographie francophone

Books

Djogbenou R. (2017). Influence des facteurs individuels et contextuels sur la complétude vaccinale des enfants de 12-23 mois au Bénin. Revue de la Presse Européenne, 149p.

Conference Presentations

Djogbenou R., Adjiwanou V., Lardoux S. **Analyzing the discourse on immigration and immigrant integration in newspapers from 1985-2022 with Structural Topic Modelling and sentiment analysis: A comparison between Quebec and Ontario**, paper to be presented in the PAA 2024 Annual Meeting program, Ohio, Section Flash: Racial Equity and Innovation in Quantitative Methods.

Djogbenou R., Adjiwanou V., Lardoux S. **Sentiment d'appartenance des immigrant.es au Québec : Un examen des effets de la discrimination perçue et de la participation associative et sportive**, paper to be presented in AIDELF International Colloquium: Demography and mobility, Aveiro (Portugal) from August 27 to 30, 2024.

Djogbenou R., Adjiwanou V., Lardoux S. Framing immigration and integration of immigrants: A computational analysis of Canadian newspapers and sources of bias, 1977–2020. IUSSP's International Population Conference, Hyderabad (India), 5-10 December 2021.

Melson M., Chen Y., O'Donnell C., Perego A., Mishra S., Thorve S., Djogbenou R., Scott A. « Dynamics of hate and counter-hate speech: comparing how left and right-leaning political advocacy organizations mobilize public engagement on racial justice events on Facebook and Twitter », ESS Conference, 10-13 march, 2022, Boston (USA)

Djogbenou R., Adjiwanou V., Lardoux S. Framing immigration and integration of immigrants: A computational analysis of Canadian newspapers and sources of bias, 1977–2020. IUSSP's International Population Conference, Hyderabad (India), 5-10 December 2021.

Djogbenou R., Adjiwanou V., Lardoux S. Using computational text analysis for identifying topics in the literatures about integration of immigrants from 1964 to 2019., Conference of the Computational Social Science Society of the Americas, Virtual, Nov 4 – 7, 2021

Djogbenou R., Adjiwanou V., Lardoux S. Immigrants' socio-cultural integration trajectories in Quebec. IUSSP's International Population Conference, Hyderabad (India), 5-10 December 2021.

Djogbenou R., Dansou J. Sexual and Reproductive Autonomy and Contraceptive Used Among Women in Union in Benin. Population Association of America Conference, Austin (Texas), 10-13 Avril 2019.

Djogbenou R., Donang J. and Bado A. Women Empowerment and Gender Based-Violence in Sub-Saharan Africa: A Comparison between Scientific Research and Social Views from Twitter, paper presented in African Population Conference, Uganda (18-22 november 2019)

Djogbenou R., Adjiwanou V. Factors associated with first postnatal care for newborns in Benin, African Population Conference, Entebbe, 18-22 Novembre 2019

Djogbenou R. Physical Conjugal Violence Against Women in Union and Use of Modern Contraceptive in Benin » Population Association of America Conference, Denver, 26-28 Avril 2018

Djogbenou R., Affo A. «Household poverty and access to health care for women in Benin » Social Policies in Africa Conference, Pretoria, 20-22 Novembre 2017

Research Grants, Scholarships and Fellowships

2022: Excellence scholarships for Graduate and postdoctoral studies, Université de Montréal.

2021 : Wilrose Desrosiers and Pauline Dunn perseverance bursary, Université de Université de Montréal.

Fall 2020: "J.A. DeSève" Excellence Scholarship, 3rd cycle of the Graduate and Postdoctoral Studies program, Université de Montréal.

Summer 2020: Mitacs Research Training Scholarship

2018-2021 : Doctoral Research Scholarships, Department of Demography, Université de Montréal

2019-2020 : Various travel grants for the dissemination of research results at conferences and symposia, Department of Demography, Université de Montréal

2018-2020 : Université de Montréal exemption scholarship for international students

2014-2016 : Master's training scholarship in Demography, Government of Benin

Teaching

At the University of Montreal (UdeM)

Instructor

Introduction to demography (undergraduate) (Winter 2021), (Winter, 2022)

Teaching Assistant, University of Montreal (UdeM)

Introduction to social statistics (Fall, 2021), (Summer, 2022), (Fall, 2022)

Advanced demographic analysis (Summer, 2021)

Population aging (Fall 2021)

Fertility and the family (Fall 2019) (Fall, 2020)

Sociology and population (2021)

At Centre for Training and Research in Population studies (CEFORP), University of Benin

Instructor

2017-2018 Research Assistant. In this job I have assisted the researchers in several projects for teaching and training students for data analysis

Teaching Assistant for Summer institutes

Summer Institute in Computational Social Science in Montreal (Summer 2020), (Summer 2021)

Skills and Languages

Statistical Analysis: R, Python, Tensorflow/Keras, STATA, SAS

Programming: R, Python, STATA, SAS, Git, Docker.

Text processing: R-Markdown, Quarto, Jupyter notebook

Data visualization and exploration: R (shiny, ggplot), Python (seaborn), Gephi.

Use of Application Programming Interfaces (APIs): Facebook, Twitter, etc.

Languages: English (proficiency), French (native).

Professional Memberships

International Union for the Scientific Study of Population (IUSSP)

Union of African Population Studies (UAPS)

Population Association of America (PAA)

Association Internationale des Démographes de Langue Française (AIDELF)

Professional Service

Manuscript reviewer for *Canadian Population Studies*

References

Professor Vissého Adjiwanou, University of Quebec in Montreal, Department of Sociology

adjiwanou.visseho@uqam.ca

Professor Solène Lardoux, University of Montreal, Department of Demography

solene.lardoux@umontreal.ca

Professor Simona Bignami, University of Montreal, Department of Demography

simona.bignami@umontreal.ca