

Jonas Ngnawe

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STUDIES

PhD in Computer Science 2021 - (Ongoing)

[Mila](#) and [Intelligence and Data Institute \(IID\)](#), Laval University, Quebec

Adversarial Robustness, Distribution Shifts and Uncertainty of Deep Learning Models

Check out my work at [Jonas Ngnawé - Google Scholar](#)

Master in Machine Learning 2018-2019

[AIMS African Master's of Machine Intelligence](#), Kigali, Rwanda

Taught by international experts, a Master's program funded by Facebook and Google,

[Link Complete list of courses](#) (Fundamentals, Vision, NLP etc.)

Project: Scalable Inference with Distributed Gaussian Processes using the Wasserstein Barycenter.

Master in Mathematical Sciences 2016-2017

[African Institute for Mathematical Sciences](#), Limbe, Cameroon

Project: k-Clustering Problem-Application to a Field Technician Allocation Optimization Problem.

Engineer's Degree in Computer Science 2011-2016

Ecole Polytechnique Yaoundé, Cameroon

Other: [Machine Learning Summer School \(MLSS\)](#), London 2019

PROFESSIONAL EXPERIENCE

Google AI resident Oct 2019- Sep 2021

Google Brain Team Accra, Ghana

- Development of robust methods for deep neural networks
- Compression of deep neural networks by quantization and pruning

Tools, Languages and Methods: Python/Tensorflow 2.0, Google Cloud Platform (GCP)

Publication: [Robustmix: Improving Robustness by Regularizing the Frequency Bias of Deep Networks](#). Accepted at NeurIPS 2022 Workshop on Distribution Shifts: Connecting Methods and Applications.

Software Developer Engineer Internship Feb-August 2016

Bolloré Africa Logistics, Port of Douala, Cameroon

- Automation and Analysis of the Review of Access Rights to the Information System
- Detection of abnormal access rights

Tools, Languages and Methods: Talend Open Studio, Qlikview, C#, ASP.Net, Microsoft SQL Server, Visual Studio, UML/Merise, BPMN 2.0, PMI Methodology

Computer engineer Jan - Aug 2018

GroupOne Holding Company, Limbe, Cameroun

- Website development
- Fuel consumption prediction projects
- Studies for the creation of a startup incubator (Business plan)

- Industrial Maintenance (Refinery) of the Honeywell Experion System
- IT Support

Tools, Languages and Methods: HTML5/CSS3/JavaScript/JQuery/JQueryUI/Ajax/PHP, MySQL, Méthodologie PMI, Business Model Canvas

Freelance Software Developer

2017-2018

- Digitization of administrative procedures for various ministries in Cameroon,
- Development and maintenance of WordPress plugins (WooCommerce)

Tools, Languages and Methods: Electronic Document Management (EDM)/Electronic Archiving([MARCH_RM](#)), PHP/Woocommerce, MySQL Workbench, Microsoft Access, Git/Gitlab/Github, Java, Netbeans, SCRUM

ADDITIONAL SKILLS

Data Science/AI

Pytorch, Scikit-Learn, Pandas, Weight&Biases, Matlab, Octave, Docker etc.

ACTIVITIES

Keynote speaker at [Deep Learning IndabaX-Cameroon](#): Robustness in AI.

Dec. 27, 2022

Organizing committee member of [Interpolate workshop @Neurips2022](#): First Workshop on Interpolation Regularizers and Beyond.

Founding member of Kmer-AI, an association for the promotion and vulgarization of AI and Machine Learning in Cameroon.

Since 2020

Co-organizer of a Machine Learning Projects Competition (MLPC)

Since 2020

Polytechnique Yaoundé

Co-organizer of a two (02) week introductory course in Machine Learning

September 2019

Polytechnique Yaoundé

Co-organizer of the first Deep Learning IndabaX Rwanda, a conference on Machine Learning and AI

April 2019, Kigali, Rwanda

Reviews: [Algorithmic Fairness through the Lens of Causality and Privacy](#) (2022), [Montreal AI Symposium](#), [Black in AI Workshop @NeurIPS](#), [Deep Learning Indaba](#) (2022, 2023, 2024)