CURRICULUM VITAE

Ritter ATOUNDEM GUIMAPI
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PERSONAL SKILLS AND EXPERTISE

Environmental and Ecological Modelling (Insects, Crops, disease); Descriptive, predictive and prescriptive analytics, Decision support system; Information System; Climate change modeling; Spatiotemporal modelling; Modelling complex system; software Engineering; Integrated Pest management; Machine learning; Visual Analytics; Programming (R, Java, Matlab, Python, …), Remote Sensing; Geographic Information System(GIS)

EDUCATION AND TRAINNING

Jan 2015 – Aug 2020

PhD, Computer Science and Ecological modelling .
International Centre of Insect Physiology and Ecology(ICIPE)/ Jomo Kenyatta University of Agriculture and Technology (JKUAT), KENYA KENYA

Nov 2012 – Jul 2014

Higher Technical School Teacher Post Graduate Diploma (DIPET II)
Higher Technical Teachers Training College (HTTTC) BAMBILI , CAMEROON

2010 – 2014

Master II of Sciences in Computer Science
University of Yaoundé I, CAMEROON

2009 - 2010

Master I of Sciences in Computer Science
University of Yaoundé I, CAMEROON

2005 – 2009

Bachelor of Science in Mathematics and computer science, Fundamental Computer Science option
University of Dschang, CAMEROON

Conference/Workshop and Innovation Lab

21 – 23 September 2022
Oral presentation, IPM strategies for Fall armyworm Management – Zoom seminar

1 – 4 August 2022
Oral presentation, SIP Annual meeting, online

8 June 2022
Oral presentation, « Plate-forme VIPS Expériences en Norvège, en Afrique et en Asie » Training workshop, CSAT project

9 June 2022
Oral presentation, « Conseils pratiques sur le traitement des données météorologiques pour l'alerte précoce et la réponse rapide : exemple de FIA-VIPS » Training workshop, CSAT projet

21 – 25 March 2022
Oral presentation, 24th AAIS conference, Addis Ababa, Ethiopia

24 – 28 August 2021
Oral presentation, Regional Conference on Fall Armyworm Management, Online

17-20 September2018
Poster presentation, The one Health &Food Safety congress, Bonn university, Germany

WORK & PROFESSIONAL EXPERIENCE

Since May 2023
Research Scientist; The Norwegian Institute of Bioeconomy Research (NIBIO), Ås, Norway.

May 2020 – April 2023
Postdoc researcher, The Norwegian Institute of Bioeconomy Research (NIBIO), Ås, Norway

June 2019 – March 2020
Consultant Ecological Modeller, International Centre of Insect Physiology and Ecology (ICIPE), KENYA.

February 2014 – March 2014
Data acquisition and management agent at National Institute of Statistic (NIS), Yaoundé

- Data acquisition of an investigation

November 2011 - May 2013
Software Engineer at Megasoft, Yaounde, Cameroun

- Software Tester
- Generation of test scenarios
- Junit test for an application for the management of customs transit

August 2011 – September 2011
Teacher at institute TEG of Technology, Yaounde, Cameroun

- Network Administration

HONORS AND AWARDS

Deutscher Akademischer Austauschdienst (DAAD) fellowship, 2014

Ph.D. Scholarship in the African Regional Postgraduate Programme in Insect Sciences (ARPPIS) at the international research institute African Insect Science for Food and Health - icipe

OTHERS SKILLS

Mother tongue(s) **French**

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Very good	Very good	Very good	Very good	Very good
Norwegian	Intermediate (B1)	(B1)	B1	B1	A2

Communication skills

- good communication skills gained through my experience at Megasoft during weekly meeting
- Excellent contact skills with students gained through my experience as tutor and during my training as secondary school teacher.
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Organisational / managerial skills

- Very good leadership skills gained through coaching of student during their internship in the organisations I worked for. Also as elder son of a very big family. currently manage many probationer when I worked at Megasoft)
- Good organisational skills gained during few years experience in private organizations, and also thanks to the organisation of events(wedding, family meeting) in family
- Good team player.

Job-related skills

- Good aptitude in teamwork
- Good skills in software development and software testing (acquired during academic project and experience as software tester at Mégasoft

Computer programming skills

- Good command of Operating Systems: Windows, Linux (Ubuntu, Fedora, ...) (acquired during academic trainings and professional experience)
- good command of Microsoft Office™ tools(acquired during academic formation and professional experience)
- Good command of Design methods: Merise, UML (acquired during academic formation and professional experience)
- Good command of Design tools : ArgoUML, Entrprise ArchiTech, Windisign, RationalRose (acquired during academic formation and professional experience)

- Good command of Development Tools: Eclipse, Netbeans, JcreatorPro, R, CMS, PhpDeseigne (acquired during academic formation and professional experience)
- Good command of Programming languages: Java, J2EE, C / C + + / C #, JavaScript, PHP, Visual Basic, Matlab, R, Joomla. (acquired during academic formation and professional experience)
- Data Base Management System (DBMS): Access, MYSQL, ORACLE (medium), POSTGRESQL (acquired during academic formation and professional experience).

Other skills

- Love sport: football, tennis, athletics, volleyball, ...
- Love reading, music, video games
- love the board games (chess, checkers game, Scrabble ...)

Scientific Publications

Guimapi, R.A., Klingen, I., Tonnang, H.E.Z., Nana, P., 2023. Linking spatial distribution of Rhipicephalus appendiculatus to climatic variables important for the successful biocontrol by Metarhizium anisopliae in Eastern Africa. Acta Trop. 238, 106800. doi:10.1016/j.actatropica.2022.106800

Aidoo, O.F., Cunze, S., **Guimapi, R.A.**, Arhin, L., Ablormeti, F.K., Tettey, E., Dampare, F., Afram, Y., Bonsu, O., Obeng, J., Lutuf, H., Dickinson, M., Yankey, N., 2021. Lethal yellowing disease: insights from predicting potential distribution under different climate change scenarios. J. Plant Dis. Prot. https://doi.org/10.1007/s41348-021-00488-1

Guimapi, R.A., Niassy, S., Mudereri, B.T., Abdel-Rahman, E.M., Tepa-Yotto, G.T., Subramanian, S., Mohamed, S.A., Thunes, K.H., Kimathi, E., Agboka, K.M., Tamò, M., Rwaburindi, J.C., Hadi, B., Elkahky, M., Sæthre, M.-G., Belayneh, Y., Ekesi, S., Kelemu, S., Tonnang, H.E.Z., 2022. Harnessing data science to improve integrated management of invasive pest species across Africa: An application to Fall armyworm (Spodoptera frugiperda) (J.E. Smith) (Lepidoptera: Noctuidae). Glob. Ecol. Conserv. 35, e02056. https://doi.org/10.1016/j.gecco.2022.e02056

Kamga, S.F., Ndjomatchoua, F.T., **Guimapi, R.A.**, Klingen, I., Tchawoua, C., Hjelkrem, A.-G.R., Thunes, K.H., Kakmeni, F.M., 2022. The effect of climate variability in the efficacy of the entomopathogenic fungus Metarhizium acridum against the desert locust Schistocerca gregaria. Sci. Rep. 12, 7535. https://doi.org/10.1038/s41598-022-11424-0

Tettey, E., Aidoo, O.F., Arhin, L., **Guimapi, R.A.**, Ablormeti, F.K., Dampare, F., Ampadu-Ameyaw, R., Cobbah, J.E., Afram, Y., Kwateng, F., Yankey, E.N., 2022. Farmers' knowledge and farm-level management practices of coconut pests in Ghana: Assessment based on gender differences. PhytoFrontiers™. https://doi.org/10.1094/PHYTOFR-09-21-0058-R

Tonnang, H.E.Z., **Guimapi, R.A.**, Bruce, A.Y., Makumbi, D., Mudereri, B.T., Balemi, T.,

Craufurd, P., 2020. PPMaP: Reproducible and Extensible Open-Source Software for Plant Phenological Phase Duration Prediction and Mapping in Sub-Saharan Africa. Agriculture 10, 515. https://doi.org/10.3390/agriculture10110515

Guimapi, R.A., Mohamed, S.A., Biber-Freudenberger, L., Mwangi, W., Ekesi, S., Borgemeister, C., Tonnang, H.E.Z., 2020a. Decision Support System for Fitting and Mapping Nonlinear Functions with Application to Insect Pest Management in the Biological Control Context. Algorithms 13, 104. doi:10.3390/a13040104

Guimapi, R.A., Srinivasan, R., Tonnang, H.E., Sotelo-Cardona, P., A. Mohamed, S., 2020b. Exploring the Mechanisms of the Spatiotemporal Invasion of Tuta absoluta in Asia. Agriculture 10, 124. doi:10.3390/agriculture10040124

Guimapi, R.A., Mohamed, S.A., Ekesi, S., Biber-Freudenberger, L., Borgemeister, C., Tonnang, H.E.Z., 2020. Optimizing spatial positioning of traps in the context of integrated pest management. Ecol. Complex. 41, 100808. doi:10.1016/j.ecocom.2019.100808

Moukam Kakmeni, F.M., **Guimapi, R.Y.A**., Ndjomatchoua, F.T., Pedro, S.A., Mutunga, J., Tonnang, H.E.Z., 2018. Spatial panorama of malaria prevalence in Africa under climate change and interventions scenarios. Int. J. Health Geogr. 17, 2. doi:10.1186/s12942-018-0122-3

Tonnang, H.E., Hervé, B.D., Biber-Freudenberger, L., Salifu, D., Subramanian, S., Ngowi, V.B., **Guimapi, R.Y.**, Anani, B., Kakmeni, F.M., Affognon, H., 2017. Advances in crop insect modelling methods—Towards a whole system approach. Ecol. Modell. 354, 88–103.

Guimapi, R.Y.A., Mohamed, S.A., Okeyo, G.O., Ndjomatchoua, F.T., Ekesi, S., Tonnang, H.E.Z., 2016. Modeling the risk of invasion and spread of Tuta absoluta in Africa. Ecol. Complex. 28, 77–93. doi:10.1016/j.ecocom.2016.08.001.