

Curriculum Vitae

(last updated, Mars 2016)

Personal information

First name / Surname	Ramsès DJIDJOU DEMASSE		
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Nationality	Cameroonian		
Date of birth	January 5, 1983		
Gender	Male,		
Family status	Married with two daughters		

Personal statement and statement of intent

My research interest is based on Mathematical and Computer Modeling of Complex Systems (on the subject of infectious disease epidemiology, population biology and ecology). I have some publications in leading scientific journals which is the results of the last four years of research and many collaborations with experts of my field of study and with experts of other fields.

Currently, I am involved in a multidisciplinary project (for two and half years, starting on April 1, 2015): a team of applied mathematicians at the Mathematical institute of Bordeaux (IMB UMR CNRS 5251), with a strong experience in mathematical modelling, and a team of biologists at INRA Bordeaux (SAVE UMR INRA 1065), with a strong background in epidemiology and evolutionary biology. The postdoc is funded by the Interprofessional Council of Bordeaux Wines and AgreenSkills fellowship. The project is aiming to model the evolutionary epidemiology of a plant disease of vineyard in order to manage the durability of host resistance (and thus to decrease pesticide use).

My future plan is to achieve (if possible) with success this two years position at INRA and acquire more experience. The second step will be to find a permanent position in an institution (especially to contribute and improve research).

	After my undergraduate degree in 2006, I have observed two years of school break due to many health problems. So, I had start the master degree in the year 2008-2009.
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Education and training

Location and dates	Cameroon, Mars 2011.
Title of qualification awarded	Master degree with thesis.
Principal subjects/occupational skills covered	Mathematics and fundamental applications (option: mathematical modelling).
Name of Institute	University of Yaoundé 1, Faculty of Science, Cameroon.

Location and dates	Cameroon, from June 2011 to June 2015.
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Mathematical/Modeling
Name of Institute	University of Yaoundé 1, Faculty of Science, Cameroon.

Work experience

Location and dates	Bordeaux, France, since April 1, 2015
Occupation or position held	Post-Doctoral (AgreenSkills fellowship)
Main activities and responsibilities	Mathematical modeller
Name of employer	INRA Bordeaux, UMR 1065 SAVE

Location and dates	Pasteur Institute of Paris (France), December 2014
Occupation or position held	visitor scientist
Main activities and responsibilities	Mathematical modelling of within-host malaria infection with immune response and drug pressure
Name of employer	Pasteur Institute of Yaoundé, Cameroon

Location and dates	Mathematics Institute of Bordeaux, France, May-July 2012
Occupation or position held	visitor scientist
Main activities and responsibilities	Mathematical modelling of within-host multi-strain malaria infection
Name of employer	UMI 209 IRD&UPMC UMMISCO, Bondy, France. LIRIMA, project team GRIMCAPE, University of Yaoundé 1, Cameroon

Location and dates	University Paul-Verlaine, Metz, France, October-November 2011
Occupation or position held	visitor scientist
Main activities and responsibilities	Mathematical modelling of the spread of Tuberculosis/HIV in a host population
Name of employer	UMI 209 IRD&UPMC UMMISCO, Bondy, France. LIRIMA, project team GRIMCAPE, University of Yaoundé 1, Cameroon

Location and dates	University of Yaoundé 1, Cameroon, from September 2011 to Mars 2015
Occupation or position held	Temporary mathematics/informatics teacher
Main activities and responsibilities	Teaching informatics and mathematics to undergraduate students
Name of employer	The National Advanced School of Engineering and The Higher Teacher's Training College (University of Yaoundé 1).

Languages

Mother tongue(s)					
Other language(s)					
European level (*)	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
<i>French</i>	C2	C2	C2	C2	C2
<i>English</i>	B2	B2	B2	B2	C1
(*) Common European Framework of Reference for Languages http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr					

Academic Record

Publications	Accepted, in press and published articles / papers:
	1) R. Djidjou Demasse, J.J. Tewa, S. Bowong, Y. Emvudu; Optimal control of an age-structured model for the transmission of hepatitis B with differential infectivity, <i>Journal of Mathematical Biology</i>, 2015. 2) P. Tchinda, R. Djidjou Demasse, J.J. Tewa and M.A. Aziz-Alaoui, Bifurcation analysis and optimal harvesting of a delayed predator-prey model, <i>International J. of Bifurcation and Chaos</i>, Vol. 25 (1), 2015. 3) R. Djidjou Demasse, J.J. Tewa and S. Bowong, <i>Analysis of an Age-structured SIL model with demographics process and vertical transmission</i>, <i>ARIMA Journal</i>, 17 (2014), pp.23-52. 4) R. Djidjou Demasse and A. Ducrot, <i>An age-structured within-host model for multi-strain malaria infections</i>, <i>SIAM Journal on Applied Mathematics</i>, 2013, Vol. 73, No. 1: pp. 572-593. 5) J.J.Tewa, R. Djidjou Demasse, S. Bowong; <i>Predator-prey model with prey harvesting, Holling response function of type III and SIS disease</i>; <i>Biomath</i> 1 (2012). 6) R. Djidjou Demasse, J.J. Tewa and S. Bowong, <i>Age-structured SEIL tuberculosis model</i>, <i>Journal of Nonlinear Science and Applications</i>, (to appear). 7) Y. Emvudu, R. Djidjou Demasse, D. Djeudeu, <i>Optimal Control of the Lost to Follow Up in a Tuberculosis Model</i>, <i>Computational and Mathematical Methods in Medicine</i>, vol. 2011. 8) Y. Emvudu, R. Djidjou Demasse, D. Djeudeu, <i>Optimal control using state dependent Riccati equations in a tuberculosis model</i>, <i>Computational and Applied Mathematics</i>, 2013, Springer.
	Submitted and in progress publications:
	1) R. Djidjou Demasse, J.J. Tewa, S. Bowong. <i>A malaria model with seasonality</i>, submitted to <i>Journal of Mathematical Biology</i>.

	2) R. Djidjou-Demasse, B. Moury, F. Fabre. Pyramiding or mixing resistance genes: what is the best strategy to deploy resistance genes to plant disease in agricultural landscape ? 3) R. Djidjou-Demasse, F. Fabre, A. Ducrot. Eco-evolutionary dynamics of life-history traits of fungal plant pathogens: an analysis of evolutionarily stable phenotype(s). 4) R. Djidjou-Demasse, G. Texier, A. Ducrot. Malaria within-host infection: the relationship between parasitemia and gametocytemia.

Scientific References

Full name	Arnaud Ducrot
Position	Associate Professor, HDR
Institution	University of Bordeaux, Mathematics Institute of Bordeaux
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Full name	Frédéric Fabre
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Full name	Samuel Bowong
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Full name	Jean-Jules Tewa
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