

Curriculum Vitae

Jonas Têlé DOUMATE

Assistant Professor in Mathematics

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1 Education

Doctorate in Mathematics, Major: Applied Mathematics Université d'Abomey-Calavi Institut de Mathématiques et de Sciences Physiques	December 2015
Advanced Diploma Course in Applied Mathematics, Major: Applied Mathematics and Theoretical Physics Université d'Abomey-Calavi Institut de Mathématiques et de Sciences Physiques	February 2012
Master in Public Economics and Applied Statistics Institut de Recherche Empirique en Economie Politique	August 2011
Maîtrise ès-Sciences en Mathématiques Université d'Abomey-Calavi Faculté des Sciences et Techniques	September 2009
Bachelor Degree in Mathematics Université d'Abomey-Calavi Faculté des Sciences et Techniques	September 2008

2 Research Interest

Statistical Applications, Theory and Methods in Economics
Pure and Applied Functional Analysis and their applications to spectrum problems
Nonlinear Partial Differential Equations
Series Analysis and Shape Optimization

3 Professional Experience

Assistant Professor Department of Mathematics, Université d'Abomey-Calavi, Bénin	2019- present
Lecturer Department of Mathematics, Université d'Abomey-Calavi, Bénin	2016-2019
Junior Research Fellow Ludwig-Maximilians-Universität München, Institut für Statistik, Germany	November 2016 - February 2017

Lecturer at African School of Economics	2016-present
Course Taught: Mathematics for Economists (Bachelor and Master)	
Lecturer at Institut de Mathématiques et de Sciences Physiques	2016-present
Courses Taught: Series and Integrals (first year), Probability (Bachelor and Master)	
Graduate Teaching Assistant in Probability	2014-2016
Laboratoire de Biomathématiques et d'Estimations Forestières (LABEF), Bénin	
Graduate Teaching Assistant	2012-2015
Institut de Mathématiques et de Sciences Physiques, Bénin	
Visiting Language School	2012
Pinnacle Institute of Languages a.k.a.	
Pan-African Institute of Languages, Accra, Ghana	
Research Group Membership	2016- present
Laboratoire de Biomathématiques et d'Estimations Forestières (LABEF)	
Visiting Graduate Student	September 2010 - October 2010
West African Training School offered by African Network of Geometry and Algebra	
Applied to the Development, Abidjan, La Côte d'Ivoire	
Teaching Assistant	2010
Institut de Recherche Empirique en Economie Politique, Bénin	

4 Refereed Journal Publications

1. Nonlinear problem involving the $p(x)$ -bilaplacian operator under Steklov type boundary condition, (preprint) (2020).
2. Likelihood inference on epidemic dynamics using a mixture of growth curves and a SIQR model (with C. F. Tovissodé and R. G. Kakai), (in progress) (2020).
3. Discrete analogues of continuous distributions for count regression using balanced discretization a generic method preserving expectations (joint work), (submitted) (2020).
4. On Eigensurface of p -biharmonic operator and associated concave-convex type equation (joint work), (preprint) (2019).
5. A Navier boundary value problem involving nonlinear operator: Existence and multiplicity results, (joint work), (preprint) (2018).
6. Weighted Steklov problem under nonresonance conditions (joint work), Boletim da Sociedade Paranaense de Matemática (2018).
7. Asymmetric Steklov problems with sign-changing weights (joint work), Journal of Mathematical Analysis and Applications (2015).

5 Recent Talks and Workshops

Participated in Scientific Meeting on Modeling the spread of COVID-19 in West Africa
 Université d'Abomey-Calavi (UAC),
 Laboratoire de Biomathématiques et d'Estimations Forestières (LABEF),
 September 08, 2020 (**keynote talk**)

Participated in African Mathematical School

Laboratoire de Biomathématiques et d'Estimations Forestières (LABEF),
 January 22-28, 2018, Abomey-Calavi, Bénin

Participated in CIMPA-School on "Analyse Géométrique des Formes Optimales",
 Université Cheikh Anta-Diop, Dakar (Senegal), May 2-12, 2016 (**invited talk**)

Participated in Spring School on Nonlinear PDEs and Related Problems,
 African Institute for Mathematical Sciences(AIMS), Mbour (Senegal),
 February 15-19, 2016 (**keynote talk**)

Participated in the First International Conference on Geometric Structures in Contemporary
 Physics (GSCP), Dangbo (Benin), October-November, 2015 (**invited talk**)

Participated in African Mathematical School (AMS) & Workshop on Harmonic Analysis and
 Partial Differential Equations, Department of Mathematics, Faculty of Science,
 University of Yaoundé I, (Cameroon), September 07-26, 2015 (**contributed talk**)

Participated in International Workshop on Discrete Integrable Systems under
 National Mathematics Initiative (NMI), Department of Mathematics,
 Indian Institute of Science (IISc), Bangalore (India), June 09-14, 2014

Participated in Second Afro-Brazilian Meeting in Physics and Mathematics,
 Institut de Mathématiques et de Sciences Physiques, Dangbo (Benin) , July 18-31, 2011

Workshop on the methods of Statistics Analysis and Research on the themes of
 governance, democracy and the living conditions of the households from the enquiries
 data, Third Edition of AFRO-Barometer Training, Cotonou-Benin, July 14-30, 2010

December, 2020