

Kristin Muthui

Ph.D student, development economics

UMI-SOURCE

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Summary: Kristin Muthui is a Ph.D student at the UMI-SOURCE laboratory, Université Paris-Saclay. Her thesis is focused on the role of climate change and adaptation in the structural transformation of low-income and emerging economies. Her research interests include structural transformation, climate change adaptation and resilience, agriculture, and ecosystem services.

EDUCATION

2020 - Present	Ph.D. spécialité Sciences économiques <i>Thesis title: Le défi éco-démographique de l'Afrique: emploi et agriculture dans le contexte de l'adaptation au changement climatique</i> Université Paris-Saclay, France
2017 - 2019	Master 2: Economie théorique et appliquée au développement durable Université Versailles Saint Quentin en Yvelines, France
2006 - 2010	Bsc. International business administration United States International University, Kenya

WORKING PAPERS

Structural transformation and climate-related extreme events

Presented at: Semaine Formation-Recherche en économie et management, 2022

Summary: We develop a system of simultaneous equations to assess the direct and indirect effects of droughts, floods, and heatwaves on structural transformation in 51 low-income and emerging economies from 1990 to 2018. We find that droughts and heatwaves have a detrimental effect in both the short and long run, while floods have a short-term positive effect.

The role of ecosystem services in agriculture productivity and resilience against climate induced weather extremes

Presented at: Les journées scientifiques de l'UMI SOURCE, 2022

Summary: We employ a system of simultaneous equations to estimate the direct and indirect effect of ecosystem services on agricultural TFP change in low-income, emerging and advanced economies from 1996-2010. We find a positive and direct effect of ecosystem services on agricultural TFP change, as well as a mediating effect on rainfall and temperature variability on short-term agricultural TFP change.

TEACHING EXPERIENCE

2020 - 2022	Chargé de Travaux Dirigés Université Paris-Saclay, campus UVSQ, France
	<ul style="list-style-type: none">▪ Grands Problèmes Économiques Contemporains: Licence d'Economie-Gestion▪ Introduction à la statistique: Licence d'Economie-Gestion

PROFESSIONAL EXPERIENCE

2018	Research intern Centre de coopération internationale en recherche agronomique pour le développement <ul style="list-style-type: none">▪ Preliminary research to inform research project on modelling and evaluation of agriculture employment and quality in sub-Saharan Africa
2017	Project Evaluator Yvelines coopération internationale et développement <ul style="list-style-type: none">▪ Evaluation of two agriculture micro-projects supported by YCID in Senegal
2014 - 2016	Consultant – sustainable development C&E Advisory LTD, Kenya <ul style="list-style-type: none">▪ Scoping studies, research, project planning and evaluations in food systems, sustainable development and adaptation to climate change

THESIS SUPERVISORS

Natalia Zugravu-Soilita

Professeur des Universités en Sciences économiques
Université de Paris-Saclay
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Vincent Geronimi

Professeur des Universités en Sciences économiques
Université de Paris-Saclay
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SOFTWARE

STATA



Microsoft Office

LaTeX

R Programming

LANGUAGES

English

French

