

## **CURRICULUM VITAE**

**NAME: ANGELICA ESPIRITU NJUGUNA**

**NATIONALITY: KENYA**

**CONTACT ADDRESS**

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### **SUMMARY PROFILE**

I have been for many years involved in policy and economic research, teaching and training African researchers for capacity building in Africa. I have written and co-authored several research, technical and policy papers in the area of economics such as growth, productivity, economic diversification, economic convergence, potential output and output gap, economic policies and regional integration. These works were published in refereed international academic journals and some in forms of discussion papers and cited widely. In terms of teaching and capacity building, one of my main achievements is the development of the curriculum for Masters in Econometrics degree at Kenyatta University, where I am currently serving as a Senior Lecturer. I am often invited to conduct training in econometrics, research methods and computer applications which participants comprised of middle managers and policymakers from Ministries of Finance & Planning, Central Banks, and African Research Institutions (such KIPPRA and UNECA). I have also been involved in teaching and training of post-graduate students both from Kenya (Kenyatta University) and other African countries both PhD and masters students in Econometrics theory and practice through my involvement in the African Economic Research Consortium (AERC) training program. I am actively involved in peer reviewing of research papers and policy strategy documents from various African institutions such as MEFMI, ADB and AERC.

### **EDUCATION BACKGROUND**

- **Doctor of Philosophy degree (PhD)**

Institution: University of New England, Australia  
Period: April 1994 to July 1999  
Date of graduation: 14 October 2000  
Subject area: Economics/Econometrics

- **Master of Economics degree**

Institution: University of New England, Australia  
Period: February 1992 to August 1993  
Date of graduation: 24 March 1994  
Subject area: Economics/Econometrics

- **Graduate Diploma in Statistics**

Institution: University of New England, Australia  
Period: February 1988 to November 1988  
Date of graduation: 8 April 1989  
Subject area: Statistics

- **Bachelor in Applied Statistics**

Institution: Polytechnic University of the Philippines, Philippines  
Period: June 1979 to March 1983  
Date of graduation: 8 April 1983 (graduated Cum Laude)  
Subject area: Applied Statistics

## **EMPLOYMENT HISTORY**

### **1. UNIVERSITY TEACHING EXPERIENCE**

- **KENYATTA UNIVERSITY, NAIROBI, KENYA**

**Period: March 2014 to present**

**Position: SENIOR LECTURER, Department of Econometrics and Statistics,  
School of Economics**

**Main Responsibilities:**

1. Teach undergraduate and postgraduate students in Economics
2. Supervise Masters and PHD students
3. Conduct Economic Research
4. Undertake other responsibilities as may be assigned by the University Council

**Period: November 1999 – August 2004**

**Position: LECTURER**

**Main Achievements:**

1. A total of six postgraduate masters' students successfully completed their degrees under my research thesis supervision.
2. Developed a curriculum for Masters in Econometrics currently offered at Kenyatta university, Department of Econometrics and Statistics, School of Economics.

3. Developed and implemented an econometrics (time series analysis) training course to upgrade skills of the department's academic staff.
4. Taught several courses to graduate and undergraduate students of economics including mathematical economics, statistics, econometrics, research methods, and economics
5. Attended and presented academic papers in international conferences.

- **UNIVERSITY OF NAIROBI, KENYA**

**Period: August – November 1999; July – October 2000**

**Position: PART-TIME LECTURER**

**Main Achievements:**

Taught economic courses to undergraduate students

- **UNIVERSITY OF NEW ENGLAND, ARMIDALE, NSW, AUSTRALIA**

**Period: April 1994 – February 1998**

**Position: Teaching Assistant**

**Main Achievements:**

Conducted tutorial classes for introductory statistics, regression analysis and applied econometrics courses.

## **2. RESEARCH EXPERIENCE IN INTERNATIONAL AND NATIONAL THINK TANKS**

- **UNITED NATIONS ECONOMIC COMMISSION FOR AFRICA  
ADDIS ABABA, ETHIOPIA, 2005 -2010**

**Period: June 2010 – November 2010**

**Position: ECONOMIC AFFAIRS OFFICER**

**Main Achievements:**

1. Management of “Development Account Project” through implementation of various programmed activities and facilitates hiring of consultants and personnel.
2. Supervised young researchers both fellows and interns in doing their research papers through reviews, comments and suggestion for improving research quality. Papers were presented in the in-house seminar series – Trade, Finance and Economics Division, UNECA.
3. Wrote and presented a technical paper titled “Business Reforms and Foreign Direct Investment in Africa” in a workshop jointly organized by the ISSER University of Ghana and Ruhr-University of Bochum, Germany in October 2010.
4. Coordinated and supervised organization of the Division's Field Project and Expert Group meeting (5<sup>th</sup> African Learning Group meeting and Harnessing Knowledge to achieve MDGs)

5. Member of Committee that organized “Workshop on Harnessing Knowledge to Achieve MDGs” at the UNCC, UNECA, December 2010.

**Period: September 2005 – June 2008**

**Position: Economic Consultant**

**Main Achievements:**

1. Wrote policy papers: (1) Macroeconomic policies for achieving growth in Africa, used as a main discussion paper in the Ad-hoc Expert Group meeting on Macroeconomic Policy, Productive Capacity and Growth in Africa, held at UNECA on 24 November 2008; (2) Macroeconomic convergence in African regional groupings
2. Wrote a technical paper on the “Estimation Procedure and Estimated Results of the Eastern and Southern Africa regions of the ECA Global Macro Model” (unpublished).
3. Wrote/co-authored a discussion paper titled “Diversification: Towards a New Paradigm for Africa’s development”, an African Trade Policy Centre (ATPC) Work in Progress No. 35. The report included mathematical models on economic diversification and growth accounting, based on African experience.
4. Wrote/co-authored reports on Economic Convergence: (1) income convergence in African Regional Economic Communities (RECs); (2) macroeconomic convergence in African RECS.
5. Conducted “Econometrics Training Course” for technical staff of UNECA

- **KENYA INSTITUTE FOR PUBLIC POLICY RESEARCH & ANALYSIS (KIPPRA), NAIROBI, KENYA**

**Period: June 2001 – July 2004**

**Position: RESEARCH ASSOCIATE**

**Main Achievements:**

1. Run econometric simulations for a World Bank funded project on economics of violence, civil conflict and post conflict transition.
2. Wrote/co-authored and lead researcher on a research project titled “Alternative methodologies for measuring Kenya's potential output and output gaps.”
3. Designed and conducted an inaugural econometrics training course for KIPPRA's Young Professionals.
4. Wrote part of the social development chapter (education & social protection) for the deliberation and consultation process towards producing the Kenyan Poverty Reduction Strategy Paper.

- **PHILIPPINE STATISTICAL ASSOCIATION  
QUEZON CITY, PHILIPPINES**

**Period: September 1993 - March 1994**

**Position: Research Associate****Main Achievements:**

1. Developed industry profiles for essential commodities in the Philippines
2. Conducted statistical surveys to determine business perception in the Philippines.

**3. VISITING LECTURESHIPS****LECTURER IN ECONOMETRICS: Collaborative Masters Programme (CMAP) for African Students****Masters in Economics – Joint Facilities of Electives****African Economic Research Consortium (AERC)**

August to September 2014

August to September 2013

August to September 2012

**LECTURER IN RESEARCH METHODS & COMPUTER APPLICATIONS COURSE:****Collaborative Masters Programme (CMAP) for African Students****Masters in Economics – Joint Facilities of Electives****African Economic Research Consortium (AERC)**

August to September 2003

August to September 2002

August to September 2001

**4. RESOURCE PERSON****Collaborative PhD Programme (CPP), African Economic Research Consortium (AERC)**

- Review progress of CPP students' thesis during Bi-annual AERC meetings  
December 2013

- Member of a team of experts setting comprehensive examinations for CPP students

February 2013

February 2014

**External Panelist: MEFMI Fellows Research Presentations****Macroeconomic and Financial Management Institute (MEFMI)**

MEFMI Graduate Fellows, July 2011

MEFMI Candidate Fellows, July 2011

**Research Methodology Workshop****MEFMI**

Victoria Falls, Zimbabwe

23 Jan-1 Feb 2008

**Econometrics Training Course and Computer Applications**  
**United Nations Economic Commission for Africa (UNECA)**  
Addis Ababa, Ethiopia  
June-July 2007

**Econometrics Training Course and Computer Applications**  
**Kenya Institute for Public Policy and Research Analysis (KIPPRA)**  
Nairobi, Kenya  
January 2004

**Macroeconomic Analysis and Management Course**  
**Macroeconomic and Financial Management Institute (MEFMI)**  
St. Lucia Park, Harare, Zimbabwe  
21-25 October 2002

## **5. PUBLIC SECTOR EXPERIENCE**

- **BUREAU OF AGRICULTURAL STATISTICS (BAS)**  
QUEZON CITY, PHILIPPINES, 1989 - 1992

**Period: January 1989 - January 1992**

**Position: Agricultural Development Specialist/Statistician II**

**Main Achievements:**

1. Operationalized best practices in economic data gathering and analysing in a developing agricultural economy
2. Prepared timely and reliable forecasts and briefings that helped in economic management in the country.
3. Wrote research paper on “Agricultural Development Indicators.”
4. Documented methodologies used in the Philippine agricultural surveys.
5. Attended and presented papers in the local statistical conferences.

**Period: January 1987 - December 1988**

**Position: Agricultural Statistics Specialists for Integrated Agricultural Surveys**

**Main Achievements:**

1. Updated sampling frames on the basis of new census survey information
2. Codified survey instruments
3. Institutionalized national survey methodologies

**Period: July 1983 - December 1986**

**Position: Senior Agronomist for Rainfed Resources Development Project**

**Main Achievements**

1. Developed/co-authored report on the agricultural and social profile of one of the important regions in the Philippines (Region VI).

## **SUPERVISION OF POSTGRADUATE STUDENTS**

### **MASTERS STUDENTS THESIS SUPERVISION**

**1. FRANCIS ODHUNO**

Masters student at Kenyatta University

Research Title: “Effects of Public Expenditure Reform on Economic Performance in Kenya: 1973-1998: A VAR Analysis”

Project completed in 2000

**2. GEORGE KISOMBEI**

Masters’ student at Kenyatta University

Research Title: “The relationship between budget deficits and current account balance in Kenya”

Project completed in 2002.

**3. GEOFFREY MAMBO**

Masters student at Kenyatta University

Research Title: “An analysis on the relevance of the monetary approach to Kenya's Balance of payments”

Project Completed in 2003

**4. DEDAN MUNIO**

Masters student at Kenyatta University

Research Title: “An Analysis of Kenya’s trade experience with regional cooperation and integration under COMESA”

Project Completed in 2003

**5. JACOB ODOUR**

Masters student at Kenyatta University

Research Title: “An analysis on the relevance of the monetary approach to Kenya's Balance of payments”

Project Completed in 2003

**6. Masika Alexander Opicha**

Masters student at Kenyatta University

Research Title: “The determinants of performance of internet cyber cafes in Nairobi province”

Project Completed in 2004

### **PHD STUDENTS THESIS SUPERVISION (2003 – 2007) <sup>1</sup>**

**1. GEORGE KOSIMBEI**

PhD student at Kenyatta University

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<sup>1</sup> Supervision of PhD students not completed due to my relocation to the United Nations Economic Commission for Africa (UNECA), Addis Ababa, Ethiopia in August 2004.

Research Title: “What are the impacts of fiscal deficits on macroeconomic performance in Kenya (1965 – 2005)?”

## 2. JULIUS KORIR

PhD student at Kenyatta University

Research Title: “The data envelopment analysis and stochastic frontier approaches to the measurement of hospital efficiency in Kenya”

## RESEARCH FELLOWS AND INTERNSHIP SUPERVISION

### 1. CHRISTINE AWITI

Master’s degree: University of Glasgow, UK

Recipient: Young African Professional (YAP) Fellowship Award at the United Nations Economic Commission for Africa (UNECA)

May to October 2010

Research Title: “Budget Support, Project Aid and the MDGs in Kenya”

Completed October 2010

### 2. OLABISI SHOAGA

PhD Candidate, Institut d’Etudes politiques de Bordeaux, France

Recipient: Young African Professional (YAP) Fellowship Award at the United Nations Economic Commission for Africa (UNECA)

May to October 2010

Research Title: “Can Decentralization Contribute to Achieving the MDGs in A Post-Conflict Country? The Sierra Leonean Experience”

Completed: October 2010

### 3. BETHANY DAVIES

Honours Graduate: Queensland University, Australia

Student Intern: United Nations Economic Commission for Africa

April to September 2010

Research title: “Knowledge Acquisition for Sustainable Development in Africa”

Completed: September 2010

## **PUBLICATIONS AND RESEARCH OUTPUTS**

### **Refereed Journals**

1. Ben Hammouda, H., S. Karingi, **A.E. Njuguna**, M. Sadni-Jallab, 2010, “Growth, Productivity and Diversification in Africa”, *Journal of Productivity Analysis* 33(2), pp 125-146.
2. Ben Hammouda, H., S. Karingi, **A. E. Njuguna**, and M. Sadni-Jallab, 2009, “Why doesn’t regional Integration Improve Income Convergence in Africa?”, *African Development Review* 21(2), pp 291-330.

3. Ben Hammouda, H., S. Karingi, **A. E. Njuguna**, and M. Sadni-Jallab, 2009, “Determinants of Diversification in Africa: A Continental Analysis”, *Journal of World Investment and Trade* 10(3).
4. Ben Hammouda, H., S. Karingi, **A. E. Njuguna**, and M. Sadni-Jallab, 2006), “Africa’s (Mis)fortunes in Global Trade and the Continent’s Diversification Regimes”, *Journal of World Investment and Trade* 7(4).

### **Book Chapters**

1. Ben Hammouda, H., S. Karingi, **A. E. Njuguna**, and M. Sadni-Jallab, 2007, “Does macroeconomics convergence lead to growth? The case of Africa”, in *Africa’s Development Challenges and Opportunities in the Global Arena* (Proceedings of the Africa Economic Conference 2007), Chapter 4, pp. 414-440, Economica, Paris.
2. **Njuguna, A. E.** and S. N. Karingi, 2007, “Macroeconomic policy space and African economies: An empirical sifting through reality and rhetoric”, in *Africa’s Development Challenges and Opportunities in the Global Arena* (Proceedings of the Africa Economic Conference 2007), Chapter 4, pp. 487-505, Economica, Paris.

### **Discussion Papers**

1. Ben Hammouda, H., S. Karingi, **A. E. Njuguna**, and M. Sadni-Jallab (2006), Diversification: Towards a new paradigm for Africa’s development, African Trade Policy Centre (ATPC) Work in Progress No. 35, Economic Commission for Africa, Addis Ababa, Ethiopia.
2. **Njuguna, A. E.**, S. N. Karingi and M. S. Kimenyi (2003), Alternative Methodologies for Measuring Kenya’s Potential Output and Output Gaps, KIPPRA Discussion Paper No. 23, KIPPRA: Nairobi, Kenya.
3. Olalo, C. C., **Espiritu, A. N. (a.k.a A. E. Njuguna)**, and Bantillan, Ma. C. S. (1990), Philippine agriculture statistics: a methodological review, *Philippine Country Study*, Australian Center for International Agricultural Research/International Service for National Agricultural Research, Project Paper No. 26, 58 pp.

### **Selected Conference Papers**

1. Nnadozie, E. and **A. E. Njuguna**, 2013, Investment Climate and Foreign Direct Investment in Africa, Paper presented at the 3<sup>rd</sup> Congress of African Economists,

Hotel de Almadies under the theme: “Industrialization and Economic Emergence in Africa”, 6-8 March 2013, Dakar, Senegal

2. Nnadozie, E. and **A. E. Njuguna**, 2011, Investment Climate and Foreign Direct Investment in Africa, Paper presented at the 6<sup>th</sup> African Economic Conference, 25-28 October 2011, United Nations Conference Centre, Addis Ababa, Ethiopia
3. Nnadozie, E. and **A. E. Njuguna**, 2010, Business Reforms and Foreign Direct Investment in Africa, Paper presented at the Workshop on Determinants and Effects of Trade and Foreign Direct Investment in Sub-Saharan Africa, 26-28 October 2010, Takoradi, Ghana, Organised by Institute of Statistical Social and Economic Research, Accra, Ghana and Ruhr-University of Bochum, Germany.
4. **Njuguna, A. E.**, 2008, Macroeconomic Policies for Growth in Africa, Background paper presented at the Ad-hoc Expert Group Meeting on “Macroeconomic Policy, Productive Capacity and Growth in Africa, 24-25 November 2008, UNCC, Addis Ababa, Ethiopia.
5. Ben Hammouda, H., S. Karingi, **A. E. Njuguna**, and M. Sadni-Jallab, 2007, Why doesn't regional Integration Improve Income Convergence in Africa? African Economic Conference at the United Nations Conference Center, Addis Ababa, Ethiopia on 15-17 November 2007.
6. **Njuguna, A. E.** and S. N. Karingi, 2007, Macroeconomic policy space and African economies : an empirical sifting through reality and rhetoric, African Economic Conference at the United Nations Conference Center, Addis Ababa, Ethiopia on 15-17 November 2007.
7. Ben Hammouda, H., S. Karingi, **A. E. Njuguna**, and M. Sadni-Jallab, 2007, Does macroeconomics convergence lead to growth?: The case of Africa, African Economic Conference at the United Nations Conference Center, Addis Ababa, Ethiopia on 15-17 November 2007.
8. **Njuguna, A. E.** and A. N. Rambaldi, 2001, A Multi-Country Disequilibrium Solow-Swan Growth Model with an Application to the ASEAN Experience, Paper presented for the Econometric Society Australasian Standing Committee (ESASC) Inaugural Intensive Workshop for Young Scholars, Waikato Management School, Hamilton, New Zealand, 9-10 July 2001.
9. **Njuguna, A. E.** (1997), Econometric Analysis of Growth in Southeast Asia: An Application of Dynamic Modelling, Paper Presented at the PhD Conference in Economics and Business, Perth, Australia, 5-7 November 1997.

### **Conference Proceedings**

1. **Espiritu, A. N. (a.k.a. A. E. Njuguna)**, Olalo, C. C., and Baclayon, C. A. (1991), “Evaluation of efficiency of corn estimates based on different sampling methodologies”, *Papers and Proceedings of the Joint Conference on Statistics*, Philippine International Convention Center, Manila, Vol. 1, pp. 345-364

**Unpublished Monograms**

1. Njuguna, A. E., S. Karingi and D. Manda (2004), Book 1: Econometric Analysis and Computer Applications, Kenya Institute for Public Policy and Research Analysis (KIPPRA), Nairobi, Kenya
2. Njuguna, A. E., S. Karingi (2004) and D. Manda, Book 2: Special Topics in Econometrics, Kenya Institute for Public Policy and Research Analysis (KIPPRA), Nairobi, Kenya

**Unpublished Research Paper (Mimeo)**

1. Njuguna, A. E., S. Karingi, and H. Ben Hammouda, 2007, Estimation Procedure and Estimated Results of Eastern and Southern Africa Region of the ECA Global Macro-Model, Trade, Finance, and Economic Development Division (TFED), Economic Commission for Africa

**Policy Documents with personal significant contribution**

1. **Economic Commission for Africa**, 2008, *Assessing Regional Integration in Africa III: Towards Monetary and Financial Integration in Africa*, ECA, Addis Ababa.
2. **Economic Commission for Africa**, 2007, *Economic Report on Africa 2007: Accelerating Africa's Development through Diversification*, ECA, Addis Ababa.
3. **Republic of Kenya**, 2003, *Economic Recovery Strategy for Wealth and Employment Creation, 2003 – 2007*, Government Printer: Nairobi.

**BOOK, JOURNAL and RESEARCH PAPER REVIEWER**

1. Book Reviewer: Macroeconomic Modelling and Forecasting Manual by MEFMI (March 2012)
2. Journal Reviewer: African Development Review, Wiley (October 2013)
3. Research/Paper Reviewer: African Economic Research Consortium (AERC), 2008 to present

**RAPPORTEUR**

1. Stakeholders Meetings on the CBS Strategic Planning, Herufi House Nairobi, Kenya 16-20 December 2002.
2. Workshop on Strategy for Economic Recovery, Leisure Lodge Mombasa, Kenya 7-8 February 2003.

3. Workshop on the Social Dimension of the Economic Recovery Plan, Kenya School of Monetary Studies, 10-12 March 2003

### **AWARDS, SCHOLARSHIPS & PRIZES**

June 1979 - April 1983 Awardee: National State Scholarship, Department of Education and Sports, PHILIPPINES to study Bachelor Degree in Statistics

February - December 1988 Awardee: Australian International Development Assistance Bureau (AIDAB) Scholarship, AUSTRALIA to study Postgraduate Diploma in Statistics

February 1992 - July 1993 Awardee: Equity and Merit Scholarship Scheme, Australia, to study Masters Degree in Economics, University of New England, Australia

December 1992 Awarded the 1992 John Guise Memorial Prize for Econometrics: Best Student in Time Series Analysis, University of New England, AUSTRALIA

April 1994 - October 1997 Awardee: PhD Research, University of New England Postgraduate Research Scholarship, University of New England, AUSTRALIA

### **VOLUNTEER SERVICES**

- 1997/98: Postgraduate Student Representative, Departmental Committee, Department of Econometrics, University of New England, Australia.
- 1996: Committee Member, Overseas Christian Fellowship, University of New England, Australia.
- 1995: Secretary, Overseas Christian Fellowship, University of New England, Australia
- 1995: Committee Member, International Student Association (ISA), University of New England, Australia
- Committee member, University of New England Filipino Students Association (UNEFISA), University of New England, Australia.
- 1992: President, Overseas Christian Fellowship, University of New England, Australia.

### **REFERENCES:**

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