

CURRICULUM VITAE

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Jonathan Dagadu Quartey is a Senior Lecturer of Economics at the Kwame Nkrumah University of Science and Technology. His special areas are Environmental and Natural Resource Economics, Macroeconomics and Ecological Economics. Since 2001, Dr. Quartey has taught undergraduate and graduate courses. He has also supervised several theses at these levels. His research areas are Natural Resource Policy Evaluation, Economics of Climate Change, Economics of Public Utilities: Energy and Water and Economics of Forestry. Dr. Quartey has made many presentations in international and local conferences. He has also participated in projects and published in his areas of research. He is a Fellow of the West Africa Institute (WAI) as an expert in renewable energy.

Academic degrees

- PhD (Economics): Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 2017.
- MA (Economics): Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 2000.
- BA (Economics and Mathematics): University of Cape Coast, Ghana, 1991.
- Diploma in Education: University of Cape Coast, Ghana, 1991.

Academic certificates

- Certificate in Climate Change Science and the Modeling of Biophysical Impacts: United Nations University World Institute for Development Economics Research/African Economics Research Consortium (UNU-WIDER/AERC), Cape Town, South Africa (2011).
- Certificate in Economics of Climate Change: UNU-WIDER/AERC (2011).
- Low Carbon Development e-course of The World Bank Institute, September 17 – October 12, 2012.

Some professionally related experience:

- **Principal Investigator** for International Growth Centre (IGC) project on “*Assessing the total economic value of electricity in Ghana: A step toward energizing economic growth*”. (2016 – 2017).
- **Consultant** for “*Impact Assessment of the activities of Goldfields Ghana Limited on the Abekoase community in the Western Region of Ghana*”. For Goldfields Ghana Limited. (2012-2013).
- **Head of Department** for Department of Economics, Faculty of Social Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. (2010 – 2011)
- **Resource person** for workshop on “Analysis of legal and economic obstacles to the use of renewable energies and energy efficiency in the framework of a regional climate change policy in West Africa”. Organized by ECOWAS center for Renewable Energy and Energy Efficiency (ECREEE) and The West Africa Institute (WAI): 14-16 July, 2014, Praia, Cape Verde.
- **Member of Economics team** for “*Linking Local communities and forest concession holders to produce legal timber for the domestic market-Pilot Project*”. For Food and Agriculture Organization of the United Nations (FAO) under the ACP-FLEGT support programme of Tropenbos International Ghana. (2012).
- **Fellow**, West Africa Institute (WAI), Praia, Cape Verde. September, 2014 – present.
- Reviewed papers for:
 - Kwame Nkrumah University of Science and Technology (KNUST) Research Fund (KReF) Awards.
 - African Journal for Agricultural Research (AJAR-11-2131)
 - Koforidua Technical University: Annual International Applied Research Conference.
 - Journal of Agricultural and Crop Research (JACR (Feb. 2014) 113
 - Herald Journal of Geography and Regional Planning (HJGRP-14-087).

University teaching experience

- 2015 – Present, **Senior Lecturer**, Department of Economics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
Courses taught: Environmental and Resource Economics, Elements of Economics, Water and Waste Economics.
- October 2001 – 2014, **Lecturer**, Department of Economics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

Courses taught: Undergraduate: Advanced Economic Theory, Elements of Economics, Development of Economic Thought, Environmental and Resource Economics;
Postgraduate: Macroeconomics, Environmental and Resource Economics.

- September 2007-present, Department of Materials Engineering, MSc Modular Programme in Environmental Resources Management, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
Course taught: Concepts in Environmental Economics and Management.
- September 2012 – May 2013, 2019: Regional Water and Environmental Sanitation Centre (RWESCK), MSc Programme in Water Resources Management, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
Course taught: Water Resources Planning.
- January 2005- May 2007, **Part-time Lecturer**, Department of Business Administration, Christian Service University College, Kumasi, Ghana.
Course taught: Quantitative Methods.

Publications:

- Quartey, J. D. and Quartey, J. A. (2019) “Towards Survival of State Owned Enterprises in Sub-Saharan Africa: Do Fiscal Benefits Matter?” *International Journal of Economics, Commerce and Management* 7 (5): 207-234.
- Quartey, J.D. (2018) “Agricultural Productivity and Sustained Economic Growth in Sub-Saharan Africa: Evidence from Ghana” *International Journal of Economics, Commerce and Management* 6 (12): 216-243.
- Quartey, J.D. and Osei-Fosu, A.K. (2018) “Evaluating the Efficiency of Forestry Policy for Inclusive Growth in Ghana” *Ghana Journal of Development Studies* 15 (2): 108-127.
- Quartey, J. D. and Ametorwotia, W. D. (2017) “Assessing the Total Economic Value of Electricity in Ghana: A Step Toward Energising Economic Growth”. Report Number E-33402-GHA-1. International Growth Centre, London School of Economics: London.
- Quartey, J. D. (2016) “Economic welfare implication of Ghana’s cocoa production in a changing global climate”. *Journal of Economics and Sustainable Development*. Vol. 7, No. 14 :142-155.
- Quartey, J. A. and Quartey, J. D. (2014) “Towards debt sustainability in highly indebted developing countries: An appraisal of some attempts”. *Journal of Developing Country Studies*, Vol.4, No. 20: 143-150.

- Quartey, J. D. (2014) “Energy Poverty and climate change mitigation in Ghana: An economic assessment”. *Journal of Economics and Sustainable Development*. Vol. 5, No.8: 72 – 85.
- Quartey, J. D. (2014) “Towards a sustainable allocation of potable water in Ghana: Evidence from Kumasi” *International Journal of Development and Economic Sustainability*. Vol. 2, No. 1:1-10.
- Quartey, J. D. and Yarney, N. G. (2013) “Ghana’s Elmina beach and economic welfare improvement” *Journal of Economics and Sustainable Development*. Vol. 4, No. 13: 89-96.
- Quartey, J. D. (2013) “Engineering education as a tool for human welfare improvement in Africa: A multidimensional model analysis.” *International Journal of Development and Economic Sustainability*. Vol.1, No.4: 23-30.
- Quartey, J. D. (2014) “Energy poverty, REDD+ and FLEGT in Ghana” In Broekhoven, G. and Wit, M. (eds.) *Linking FLEGT and REDD+ to Improve Forest Governance*. Tropenbos International, Wageningen, the Netherlands. Pp 194-201. (ISBN: 978-90-5113-116-1).
- Quartey, J.D. (2013) An economic assessment of the deforestation of Ghana’s Garden City of West Africa. In Simpson, R. and M. Zimmermann (Eds.). *The Economy of Green Cities: World Compendium on the Green Urban Economy*. Springer Netherlands: Local Sustainability 3, 2013, pp 351-362. (ISBN: 978-94-007-1968-2).
- Quartey, J. D. (2014) “Natural resource conservation in Ghana: An economic assessment of Lake Bosomtwi”. In Oku E. E., Asubonteng, K. O. and Nutakor, P. (eds.) *Harnessing land and water resources for improved food security and ecosystem services in Africa*. Accra: United Nations University Institute of Natural Resources in Africa (UNU-INRA). Pp 11-23. (ISBN: 978-9988-633-97-4).
- Quartey, J. D. (2010) “Chainsaw milling in Ghana: assessing its economic impact” In Wit, M. and Dam, J. V. (eds.) *Chainsaw milling: supplier to local markets*. Tropenbos International, Wageningen, the Netherlands. Pp 159-165. (ISBN: 978-90-5113-094-2).
- Quartey, J.D. (2012) Sustainable energy technology in a changing climate: An alternative for Developing Countries. *Outreach*. Stakeholder forum. Accessible at www.stakeholderforum.org/sf/outreach.
- Quartey, J.D. (2006) Brighter energy future for Ghana (Interview). *African Review of Business and Technology* (December 2006/January 2007) p34.

Conference papers

- Quartey, J. D. (2018) “Harnessing Local Community Preferences for Biodiversity Conservation in Developing Countries”. Paper presented at 20th International Biodiversity and Economics for Conservation (BIOECON) Conference. 12-14 September, 2018. Kings College, University of Cambridge, Cambridge, United Kingdom.
- Quartey, J. D. (2018) “Climate Change and Clean Energy Demand in Africa: The Way Forward for Policy Development”. Paper presented at 6th International Climate Change and Population Conference on Africa, 23-25 July, 2018. Regional Institute for Population Studies/Climate Change Resource Centre, University of Ghana, Legon-Accra, Ghana.
- Quartey, J.D. (2016) “Assessing the efficiency of forestry policy for inclusive growth in Ghana”. Paper presented at the Fourth Global Green Growth Knowledge Platform (GGKP) Annual Conference: Transforming Development through Inclusive Growth. 6-7 September 2016. Jeju Island, Republic of Korea.
- Quartey, J.D. (2016) “Forestry policy as a tool for biodiversity conservation in the Ashanti Region of Ghana: Does equity matter?” Paper presented at the 18th International Biodiversity and Economics for Conservation (BIOECON) Conference. 14-16 September, 2016. Kings College, University of Cambridge, Cambridge, United Kingdom.
- Quartey, J.D. (2015) “Energy delivery for sustainable development: The way forward for Ghana”. Second International Economics Conference of the Department of Economics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, at the Great Hall Conference Room, 19-20th February, 2015.
- Quartey, J.D. (2014) “Climate change and clean energy demand linkages: the way forward in the framework of climate change policy development for the ECOWAS region”. Paper presented at Workshop on Analysis of legal and economic obstacles to the use of renewable energies and energy efficiency in the framework of a regional climate change policy in West Africa. Organized by ECOWAS Center for Renewable Energy and Energy Efficiency (ECREEE) and The West Africa Institute (WAI): 14-16 July, 2014, Praia, Cape Verde.
- Quartey, J. D. (2014) “Energy poverty and climate change mitigation in Ghana: An economic assessment” Paper presented at the Development and Mitigation forum, University of Cape Town, Cape Town, South Africa, 27-29 January 2014.
- Quartey, J. D. (2013) “Engineering education as a tool for human welfare improvement in Africa: A multidimensional model analysis” Paper presented at the 6th International Conference on Engineering Education for Sustainable Development (EESD 13), Robinson College, University of Cambridge, Cambridge, UK, 22-25 September, 2013.
- Quartey, J.D. (2013) “Energy poverty and REDD+ in Ghana: Implications for economic welfare”. Paper presented at the Improving energy access through climate finance:

picking the winners conference. University of Twente, Enschede, The Netherlands, 26-28 March 2013.

- Quartey, J.D. (2010) “The Demand for Climate Change Mitigation in Ghana’s Forested Regions”. Paper presented at the 18th Commonwealth Forestry Conference. Edinburgh International Conference Center, Edinburgh, Scotland, 28th June-2 July, 2010. Accessible at www.cfc2010.org/proceedings/html.
- Quartey, J.D. (2011) “The Demand for Energy and Economic Welfare in Ghana”. Paper presented at the Energy and People: Futures, Complexity and Challenges Conference, Lady Margaret Hall, University of Oxford, Oxford, 20-21 September, 2011. Accessible at www.eci.ox.ac.uk/news/podcast/energy2011/2i-quartey.pdf
- Quartey, J.D. (2011) “Towards a sustainable allocation of potable water in Ghana: Evidence from Kumasi”. Paper presented at the 3rd Ghana water Forum of the Ministry of Water Resources, Works and Housing. College of Physicians and Surgeons, Accra, 5-7 September, 2011.
- Quartey, J.D. (2011) “Natural Resource Conservation in Ghana: An Economic Assessment of lake Bosomtwe”. Paper presented in poster format at the International Conference on Sustainable Development of Natural Resources in Africa, 2011, of the United Nations University Institute for Natural Resources in Africa (UNU-INRA) at the Faculty of Law, University of Ghana, Accra, 5-7th December, 2011.

Some theses of graduate students (MPhil/MA/MSc) supervised

CANDIDATE’S NAME AND DEGREE	THESIS TITLE	YEAR OF GRADUATION
Araba Chineboaba Afful MPhil (Economics)	The Economic Effect of Climate Change on Agricultural Productivity in Sub-Saharan Africa	2018
Raymond Owusu-Achiaw MSc (Economics)	The Effect of Sectoral Output on Carbon Dioxide Emissions in Ghana from 1965-2014	2017
Lydia Gyamea Nyarko MPhil (Economics)	Assessing the usage and cost-effectiveness of mobile money payment system in Ghana	2017
Issah Amin MSc (Economics)	An investigation into the drivers of household electricity conservation in Kumasi, Ghana	2016

Akosua Konadu Adjei MSc (Economics)	Economic viability of solar photovoltaic systems in households in Kumasi	2016
Anokye Bismark MPhil (Economics)	The determinants of electricity consumption in Ghana	2015
Woangba Gabriel Dotse MPhil (Economics)	Time preference, fuel wood Consumption and harvest rates of the Keta mangrove forests in Ghana	2015
Anthony Abaidoo, MPhil (Economics)	Economics of community participation in the restoration of Bobiri Forest Reserve in Ghana.	2015
Daniel Oppong, MPhil (Economics)	Economics of livelihood adaptation of fishers to changes in fish catch within Ghana's oil production region	2015
Wisdom Dodzi Ametorwotia, MPhil (Economics)	A parametric estimation of household welfare change due to power outages in Ghana	2014
Emmanuel Ankomah, MPhil (Economics)	Assessing the total economic value of the Kakum National Park in Ghana	2014
Hambali Dauda, MPhil (Economics)	The distributional impact of fertilizer subsidies on rural farmers in Ghana	2013
Eric Kwesi Dadzie, MPhil (Economics)	Climate change and energy demand in Ghana: Evidence from Kumasi.	2013
Isaac Appiah Amankwa, MPhil (Economics)	Internal adjustment costs and firms' decision to invest in Ghana	2013
Nana Gyeeedu Yarney, MPhil (Economics)	Assessing the welfare value of the Elmina beach in Ghana.	2011
Gordon Faalukuu Nakpa-Der, MPhil (Economics)	An economic assessment of the poverty-environmental quality nexus in the Lambussie-Karni District of Ghana.	2011

Mohammed Jamal, MPhil (Economics)	Assessing the demand for fuel wood in the Tamale Metropolitan area.	2011
Bernard Nana Acheampong, MPhil (Economics)	Economic implications of complementing urban water supply with rainwater in Kumasi.	2009
Patrick Ansah, MA (Economics)	Assessing the non-use value of Lake Bosomtwe in Ghana.	2009
Samuel Ebi Yamike Brew, MA (Economics)	Estimating the recreational value of Lake Bosomtwe.	2008
Anthony Amoah, MA (Economics)	An estimation of the economic value of the Korle Lagoon in Accra, Ghana.	2007
Abigail Asamoah, MA (Economics)	An economic analysis of the Balance of Payments of Ghana	2006
Robert Nyame, MBA	Assessing the role of the National Board for Small-scale Industries in the development of entrepreneurship in the Kumasi metropolis.	2006
Joseph Asare-Bediako, MBA	Surviving competition in the cocoa food beverages and confectionery industry: The case of Ghana's Cocoa Processing Company Limited	2005
Rizmith Kusi Asafo Agyei, MBA	Financial reporting by non-profit organizations: The case of Churches in Ghana.	2005
Joseph Broni, MBA	The relationship between sales force motivation and corporate performance in southern Ghana.	2004
Andrews Abeyie, MBA	Assessing the patient satisfaction in healthcare delivery at the Komfo-Anokye Teaching Hospital.	2004

Referees:

1. Dr. A.K. Osei-Fosu

Department of Economics

Kwame Nkrumah University of Science and Technology

Kumasi, Ghana.

2. Dr. O. A. Kufuor

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