

## **CURRICULUM VITAE**

**NAME: JONATHAN DAGADU QUARTEY**

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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).

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### **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: International Growth Centre (IGC) project on “*Assessing the total economic value of electricity in Ghana: A step toward energizing economic growth*”. (2016 – 2017).
- Consultant: “*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).
- Resource person: 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, Academic Board of African Economic Research Consortium (AERC), 2010.
- Head of Department: Department of Economics, Faculty of Social Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. (2010 – 2011)
- Fellow: West Africa Institute (WAI), Praia, Cape Verde. September, 2014 – present.
- Member, College of Art and Social Sciences (CASS) Board (Representative of Faculty of Social Sciences), KNUST, 2005 - 2011.
- Member, 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).
- Team member, National Climate Change Policy Framework (NCCPF) team, 2010.
- Team member, Validation of Biodiversity Offset Business Scheme Guidelines, 2019.
- Member, Gospel Centre Assemblies of God Education Committee, 2006 – Present.
- Expert in Research and Evaluation for Public Health Institute (USA) on Clean Household Energy in Ghana, 2017.
- Chairman, Faculty of Social Sciences Admissions Committee (KNUST), 2009 – 2011, 2021.
- Chairman, Committee for Revision of MA (Economics) Programme, 2013.
- Chairman, Faculty of Social Sciences Committee on Mandatory Courses, 2018 -2020.
- Chairman, Committee to develop one-year MSc (Economics) Programme, 2013.
- Facilitator, 8<sup>th</sup> Kwame Nkrumah University of Science and Technology (KNUST) Summer School, 2018.
- Member, College of Art and Social Sciences Committee for Review of fees under Executive Master’s Programme in Ministry and Management, 2005.

- Member, Faculty of Social Sciences Committee on Affiliation of Spiritan Institute of Philosophy to KNUST, 2001 – 2002.
- Member, Committee for Re-accreditation of PhD, MPhil, MSc and BA Economics programmes, 2014- Present.
- Member, College of Humanities and Social Sciences Fact Finding Committee to Investigate Allegation of Sexual Harassment against a Senior Member, 2017.
- Panel Member, Department of Geography and Rural Development interview panel for MA and PhD applicants, 2008.
- Reviewer for Kwame Nkrumah University of Science and Technology (KNUST) Research Fund (KReF) Awards, 2016.
- Member, KNUST-RAMAPO College Students' Cultural Exchange Programme Organising Committee, 2014–2015.
- Member, Department of Economics MSc Admissions Committee, 2014 – 2017.
- Member, Organising Committee for 2<sup>nd</sup> Economics Conference, KNUST, 2013.
- Member, Committee to review requirements for admission to undergraduate programmes, 2013.
- Member, Faculty of Social Sciences Committee on Mandatory Courses, 2014.
- Academic Tutor, Faculty of Social Sciences, 2002- 2010, 2011- present.
- Reviewer, Koforidua Technical University Annual International Applied Research Conferences.
- Chief Examiner/Team Leader, West African Examinations Council, 2000-2003.
- Reviewer, Scientific African Journal (Elsevier, B. V.)
- Reviewer, Journal of Agricultural and Crop Research (JACR).
- Reviewer, African Journal for Agricultural Research (AJAR).
- Patron for Assemblies of God Campus Ministry, KNUST. (2005 – Present).
- Patron for Old Students of Tamale Secondary School Association, KNUST. (2003– 2016).
- Lead discussant at Consultation Workshop on National Strategy on Climate Change Mitigation, organized by the Environmental Protection Agency and UNDP at Noda Hotel, Kumasi, 16-19 August, 2009.
- Guest Speaker at the Klainer Center for Women and Business of the State University of New York (SUNY) at Geneseo, USA on the Economy of Ghana and Business, September 29, 2010. (Reference: [https://www.geneseo.edu/webfm\\_send/4581](https://www.geneseo.edu/webfm_send/4581)).
- National President, Graduate Students' Association of Ghana (GRASAG). (1998-1999).
- Demonstrator at Kwame Nkrumah University of Science and Technology, Ghana (1998-1999).
- Tutor/Lecturer (part-time) Tamale Polytechnic, Tamale, Ghana (1995-1997, 2000-2001).
- Tutor/Housemaster, Tamale Secondary School, Tamale, Ghana (1991-1997, 2000-2001).

## Academic ranks held and Subjects taught

(i) Senior Lecturer, Department of Economics, KNUST: August, 2015 – Present.

(ii) Lecturer, Department of Economics, KNUST: October, 2001 – July, 2015.

Course Code	Course Title	Dates
ECON 668	Environmental and Resource Economics	2007 - present
ECON 653	Macroeconomics	2008-2010, 2014
ECON 536	Environmental Economics and Policy	2014 - present
ECON 534	Resource Economics	2015
MSE 505	Concepts of Environmental Economics and Management	2008 – present
CEWR 566	Water and Waste Economics	2013- 2014, 2017-present
DFN 553	Development Macroeconomics	2021
ECON 463/464	Environmental and Resource Economics I/II	2008 - present
ECON 451/452	Advanced Economic Theory I/II	2001 - 2008
ECON 357/358	Development of Economic Thought I/II	2006 – 2009, 2021
ECON 151/152	Elements of Economics I/II	2001-2006, 2013-2016

## Publications:

- Quartey, J. D. (2021). Addressing the Missing Link for Sustainable African Continental Free Trade: Lessons from Ghana’s Manufacturing Industry. *Asian Development Policy Review*, 9 (1): 1-23.
- Quartey, J. D. (2021). Energizing Africa Sustainably: Lessons from Ghana’s Electricity Infrastructure. *International Journal of Publication and Social Studies*, 6 (1): 1-17.
- Quartey, J. D. (2020). Sustainable Energy Delivery for Africa’s Changing Climate: An Economic Assessment. *Asian Development Policy Review*, 8(3): 214- 235.
- Quartey, J. D. (2020) Assessing the Economic Incentive for Marine Fishing among Coastal Communities in Ghana. *International Journal of Economics, Commerce and Management*, 8 (4): 282-298.
- 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*, 7 (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](http://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. (2019) Delivering Significant Climate Action from African Cities: Evidence from Choice Experiment in Ghana. Paper presented at the 7<sup>th</sup> International Climate Change and Population Conference on Africa (CCPOP-GHANA 2019), 12<sup>th</sup>-14<sup>th</sup> November, 2019, Accra, Ghana.
- Quartey, J. D. (2019) Assessing the Economic Incentive for Marine Fishing among Coastal Communities in Ghana. Paper presented at the 2<sup>nd</sup> Conference on Fisheries and Coastal Environment (CFCE), 19 – 21 August, 2019, Accra, Ghana.
- Quartey, J. D. (2018) “Harnessing Local Community Preferences for Biodiversity Conservation in Developing Countries”. Paper presented at 20<sup>th</sup> 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 6<sup>th</sup> 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 18<sup>th</sup> 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, 19-20<sup>th</sup> 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 6<sup>th</sup> 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 18<sup>th</sup> Commonwealth Forestry Conference. Edinburgh International Conference Center, Edinburgh, Scotland, 28<sup>th</sup> June-2 July, 2010. Accessible at [www.cfc2010.org/proceedings/html](http://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](http://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 3<sup>rd</sup> 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, 5-7<sup>th</sup> December, 2011.

**Graduate students supervised: MPhil/MA/MSc**

CANDIDATE’S NAME AND DEGREE	THESIS TITLE	YEAR OF GRADUATION
Damasus Yaghr MSc (Economics)	Economic Analysis of Ghana’s Energy Consumption Pattern	2020
Joseph Nyameye Cowfie MSc (Economics)	Evaluating Efficiencies of Power Plants on Onshore Facilities in Ghana’s Cape Three Points Oilfields	2020
Kwame Yakubu Mahama MSc (Economics)	Mobile Banking and Customer Satisfaction: A Case Study of the Head Office of Prudential Bank Limited in Accra, Ghana.	2020
Tornam Kofi Dzakuma MSc (Economics)	The Impact of Foreign Aid on Poverty Reduction in Ghana	2019
Abdulai Imoro MSc (Economics)	Investigating the Impact of Foreign Direct Investment on Domestic Investment in Ghana	2019
Asiwome Dor MSc (Economics)	Public debt and economic growth in Ghana.	2019
Obo-Ampah Isaac MSc (Economics)	Impact of Inflation on Economic Growth in Ghana	2019
Araba Chineboaba Afful MPhil (Economics)	The Economic Effect of Climate Change on Agricultural Productivity in Sub-Saharan Africa	2018



Issah Mohammed MSc (Economics)	Examining the Determinants of Livelihoods Diversification through Non-farm Activities in the Northern Region of Ghana.	2018
Philip Ohene MSc (Economics)	Impact of Selected Bank Factors on Non-performing Loans among Public Listed Banks in Ghana.	2018
James Afful MSc (Economics)	Impact of Foreign Direct Investment on Gross Domestic Product of Ghana.	2018
Eric Kofi Danso MSc (Economics)	Foreign Direct Investment, Environmental Pollution and Economic Growth in Sub-Saharan Africa.	2018
Nii Kwei Kussachin MSc (Economics)	The Impact of Population on Ghana's Economic Growth: An Econometric Analysis.	2018
Lydia Gyamea Nyarko MPhil (Economics)	Assessing the usage and cost-effectiveness of mobile money payment system in Ghana	2017
Raymond Owusu-Achiaw MSc (Economics)	The Effect of Sectoral Output on Carbon Dioxide Emissions in Ghana from 1965-2014	2017
Felix Kwaku Fiadjoe MSc (Economics)	Modelling Optimal Power Generation Mix for 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
Ayertey Isaac Quarshie MSc (Economics)	Estimating the Demand for Premix Fuel in Ghana: A Time Series Approach.	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,	Assessing the non-use value of Lake Bosomtwe in Ghana.	2009

MA (Economics)		
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