

CURRICULUM VITAE

PROF. JONATHAN DAGADU QUARTEY

Department of Economics

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1. (a) Academic degrees earned with dates:

- (i) PhD (Economics): 2017.
- (ii) MA (Economics): 2000.
- (iii) BA (Economics and Mathematics): 1991.
- (iv) Diploma in Education: 1991.

(b) Institutions attended with dates

- (i) Kwame Nkrumah University of Science and Technology, Kumasi, Ghana: 1997 – 2000, 2013-2017.
- (ii) University of Cape Coast, Cape Coast, Ghana: 1986 - 1991.

2. University teaching: Academic ranks held and Subjects taught

- (i) Associate Professor, Department of Economics, KNUST: 2023 – Present.
- (ii) Senior Lecturer, Department of Economics, KNUST: 2015 – 2023.
- (iii) Lecturer, Department of Economics, KNUST: 2001 – 2015.

Table 1: Courses Taught

Course Code	Course Title	Programme	Dates
ECON 668	Environmental and Resource Economics	MPhil Economics	2007- present
ECON 653	Macroeconomics	MPhil Economics	2008-2010, 2014
ECON 536	Environmental Economics and Policy	MSc Economics	2014- present
ECON 534	Resource Economics	MSc Economics	2015
MSE 505/ ERM 555	Environmental Economics and Sustainability	MPhil Environmental Resources Management	2008 – 2021 2022- present
CEWR 566	Water Resources Planning	PhD/MSc Water Resources Engineering and Management	2013- 2014, 2017-present
DFN 553	Development Macroeconomics	MSc Development Finance	2021- present
ECON 463/464	Environmental and Resource Economics I/II	BA Economics	2008- present
ECON 451/452	Advanced Economic Theory I/II	BA Economics	2001 - 2008
ECON 355/358	Development Economics/ Development of Economic Thought	BA Economics	2006 – 2009, 2021- present
ECON 151/152	Elements of Economics I/II	BA Economics	2001-2006, 2013-2016

Other academic certificates obtained

1. 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).
2. Certificate in Economics of Climate Change: UNU-WIDER/AERC (2011).
3. Low Carbon Development e-course of The World Bank Institute (2012).

Some Professional Roles

- Co-investigator/Lead for Work Package 2: Jospong Group of Companies Africa Environmental Sanitation Consult (AfESC) project on “*Econometric Cost Functions and Cost Recovery Models for Solid Waste Management Services: A Digital Twin Approach*”. 2021-present.
- 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- Present.
- 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, 8th 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- 2022.
- 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, Faculty of Social Sciences Committee on Short Courses, 2022-present.
- Member, Departmental Programmes Review Committee, 2022- present.
- Member, Department of Economics MSc Admissions Committee, 2014 – 2017.
- Member, Organising Committee for 2nd 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.), 2021-present.
- Reviewer, African Journal of Business and Economic Research, 2022– present.
- Reviewer, Sustainable Development (Wiley), 2024.
- 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
- Keynote Speaker: Launch of Economics Students’ Association of Ghana (ESAG) at Akenteng Appiah-Menka University of Skills Training and Entrepreneurial Development, Kumasi Campus, 15th June, 2024.
- 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).
- 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).

Refereed Journal Publications

- Quartey, J. D. (2023). Africa's Continental Free Trade and Sustainable Development: An Economic Assessment. *Management & Economics Research Journal*, 5(1): 15-44. <https://doi.org/10.48100/merj.2023.258>
- **Quartey, J. D.** & Antwi, G. O. (2023). Determinants of Economic Benefit from Environmental Welfare in sub-Saharan Africa: Evidence from Energy Transition in Ghana. *The Cradle of Knowledge: African Journal of Educational and Social Science Research*, 11(1): 47-60. <https://dx.doi.org/10.4314/ajessr.v.11i1.6>
- Oteng-Abayie, E. F., Dramani, J. B., Adusah-Poku, F., Amanor, K. & **Quartey, J. D.** (2023). Decomposition and Drivers of Energy Intensity in Ghana. *Energy Strategy Reviews*, 47(2023) 101090. <https://doi.org/10.1016/j.esr.2023.101090>
- **Quartey, J. D.**, Ametowortia, W. D. & Laari, P. B. (2022). Household Effective Demand for Electricity in Ghana: Analysis and Implication for Tariffs. *Management and Economics Research Journal*, 4(2): 1-24. <https://doi.org/10.48100/merj.2022.192>
- Mohammed, M. & **Quartey, J. D.** (2022). Supply Creating its own Demand in Ghana's Urban Transportation: Economic Analysis of Motor Tricycle Transport System in Kumasi. *The Cradle of Knowledge: African Journal of Education and Social Science Research*, 10(3): 145-154. <https://dx.doi.org/10.4314/ajessr.v10i3.5>
- **Quartey, J. D.** & Nyarko, L. G. (2022). Economic Sustainability of Mobile Money Payments in Ghana: Does a Tax on Transactions Matter? *African Journal of Economic Review*, 10(5): 112-131.
- 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. <https://doi.org/10.18488/journal.107.2021.91.1.23>
- Quartey, J. D. (2020). Sustainable Energy Delivery for Africa's Changing Climate: An Economic Assessment. *Asian Development Policy Review*, 8(3): 214-235. <https://doi.org/10.18488/journal.107.2020.83.214.235>
- **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): 108-27. <http://dx.doi.org/10.4314/gjds.v15i2.6>
- **Quartey, J. D.** and Ametowotia, W. D. (2017). Assessing the Total Economic Value of Electricity in Ghana: A Step Toward Energising Economic Growth. Reference Number E-33402-GHA-1. International Growth Centre, London School of Economics: London. Available at: <https://www.theigc.org/project/assessing-the-total-economic-value-of-electricity-in-ghana-a-step-toward-energising-economic-growth/>

- 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) 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. (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.

Refereed Book Chapters

- 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. (2019) Delivering Significant Climate Action from African Cities: Evidence from Choice Experiment in Ghana. Paper presented at the 7th International Climate Change and Population Conference on Africa (CCPOP-GHANA 2019), 12th-14th November, 2019, Accra, Ghana.
- Quartey, J. D. (2019) Assessing the Economic Incentive for Marine Fishing among Coastal Communities in Ghana. Paper presented at the 2nd 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 20th International Biodiversity and Economics for Conservation (BIOECON) Conference. 12-14 September, 2018. Kings College, University of Cambridge, Cambridge, United Kingdom. Available at: [www.bioecon-network.org/pages/20th 2018/papers.html](http://www.bioecon-network.org/pages/20th%202018/papers.html)
- 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. Available at: www.bioecon-network.org/pages/18th2016/papers.html
- 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.

NB: These publications can also be found in the following locations:

<https://scholar.google.com/citations?user=Es4xxsAAAAAJ&hl=en>

<https://orcid.org/000-0002-7333-2300>

<https://www.researchgate.net/profile/Jonathan-Quartey>

<https://knust.academia.edu/JQuartey>

Supervision of some Graduate students' theses

S/N	CANDIDATE'S NAME AND DEGREE	TITLE OF THESIS	YEAR OF GRADUATION
1	Daniel Asante, MPhil (Economics)	Treasury Bill Rate and Stock Market Movements in Ghana: Does Asymmetry Matter?	2023
2	Tina Ampofowaa, MPhil (Economics)	The Cyclicity of Fiscal Policy in West African Monetary Zone: The Role of Relative Political Capacity.	2023
3	Edward Asane Amporfu, MPhil (Economics)	The Impact of Liquefied Petroleum Gas Consumption on Forest Cover in Ghana.	2021
4	Mujaheed Mohammed, MPhil (Economics)	An Economic Analysis of Factors Accounting for the Influx of Motor Tricycles in Ashanti Region.	2021
5	Araba Chineboaba Afful, MPhil (Economics)	The Economic Effect of Climate Change on Agricultural Productivity in Sub-Saharan Africa.	2018
6	Lydia Gyamea Nyarko, MPhil (Economics)	Assessing the usage and cost-effectiveness of mobile money payment system in Ghana.	2017
7	Anokye Bismark, MPhil (Economics)	The determinants of electricity consumption in Ghana.	2015
8	Woangba Gabriel Dotse, MPhil (Economics)	Time preference, fuel wood Consumption and harvest rates of the Keta mangrove forests in Ghana.	2015
9	Anthony Abaidoo, MPhil (Economics)	Economics of community participation in the restoration of Bobiri Forest Reserve in Ghana.	2015
10	Daniel Oppong, MPhil (Economics)	Economics of livelihood adaptation of fishers to changes in fish catch within Ghana's oil production region.	2015
11	Wisdom Dodzi Ametorwotia, MPhil (Economics)	A parametric estimation of household welfare change due to power outages in Ghana.	2014

12	Emmanuel Ankomah, MPhil (Economics)	Assessing the total economic value of the Kakum National Park in Ghana.	2014
13	Hambali Dauda, MPhil (Economics)	The distributional impact of fertilizer subsidies on rural farmers in Ghana.	2013
14	Eric Kwesi Dadzie, MPhil (Economics)	Climate change and energy demand in Ghana: Evidence from Kumasi.	2013
15	Isaac Appiah Amankwa, MPhil (Economics)	Internal adjustment costs and firms' decision to invest in Ghana.	2013
16	Nana Gyeeedu Yarney, MPhil (Economics)	Assessing the welfare value of the Elmina beach in Ghana.	2011
17	Gordon Faalukuu Nakpa-Der, MPhil (Economics)	An economic assessment of the poverty-environmental quality nexus in the Lambussie-Karni District of Ghana.	2011
18	Mohammed Jamal, MPhil (Economics)	Assessing the demand for fuel wood in the Tamale Metropolitan area.	2011
19	Bernard Nana Acheampong, MPhil (Economics)	Economic implications of complementing urban water supply with rainwater in Kumasi.	2009
20	Patrick Ansah, MA (Economics)	Assessing the non-use value of Lake Bosomtwe in Ghana.	2009
21	Samuel Ebi Yamike Brew, MA (Economics)	Estimating the recreational value of Lake Bosomtwe.	2008
22	Anthony Amoah, MA (Economics)	An estimation of the economic value of the Korle Lagoon in Accra, Ghana.	2007
23	Abigail Asamoah, MA (Economics)	An economic analysis of the Balance of Payments of Ghana.	2006