Leonard-Allen Amarh Quaye

320 Hutcheson Hall, Blacksburg, VA. 24061

Education

Virginia Tech Blacksburg, Virginia

Ph.D. in Economics, Agriculture

• Dissertation: Modeling Food Commodity Prices and Market Dynamics

• Committee: Shamar L. Stewart (Chair), Olga Isengildina Massa, Clint Neill, Chanit'a Holmes, Le Wang

The University of Georgia

Athens, Georgia

Expected: 05/2025

M.Sc. in Agricultural & Applied Economics

05/2020

The University of Ghana, Legon

Accra, Ghana

B.Sc. in Agriculture (Agricultural Economics - First Class Honors)

05/2017

Areas of Interest

• Applied Econometrics

• Time Series Analysis

• Development Economics

Agribusiness

Publications

Under Review

- Quaye, L-A., Stewart S. L., Holt, M. T., Neill C., Exploring the Dynamics of the El Niño Southern Oscillation and Food Commodity Prices
- Quaye, L-A., Kostandini G.. Impact of Formal Household Land Ownership on Farm Productivity & Rural Youth Employment in Agriculture in Ghana.

Policy Paper

• Gupta, A. and Quaye, L., "Cost-benefit Analysis of World Food Programme's Food Assistance for Assets Projects: Evidence from Rwanda and Zimbabwe." UN World Food Programme (WFP), April 5, 2022.

Working Papers

- Corn Basis and Transportation Disruptions along the Mississippi River
- Nuworsu, E. K. M., Quaye, L-A. Improved Drinking Water Sources and Self-Reported Drinking Water Quality.
- Asamoah, G., Appiah, E. C., Quaye, L. A., Adams, A. A., Kindo, M. D., Egyir I.S., & Anim-Somuah, H. Sustainable Agriculture for National Development: The Role of Government Investment in Agricultural Sector Growth.

Non-Peer Reviewed Online Publications

- Abedin, N., Alwang, J., Chen, S., Fan, F., Liverpool, A., Navarette, J., Posadas, B., Quaye, L., & Tajanpure, P. (2022) Using Remote Sensed Data For Social & Economic Decision Making In Zimbabwe. *University of Virginia Biocomplexity Institute*. https://aaec-vt.shinyapps.io/dspg22Zimbabwe/.
- Gupta, A., Kahsai, M., Pierce, T., Prisbe, C., Quaye, L., & Toure M. (2021) Availability of Services: Evolving Demographics, Housing, & Traffic in Rappahannock County, VA. *University of Virginia Biocomplexity Institute*. https://aaec-vt.shinyapps.io/Rappahannock/.

Presentations & Conferences

Transportation Disruptions and Corn Basis Volatility along the Mississippi River

Agricultural & Applied Economics Association (AAEA) Meeting, Denver, CO

07/27-29/2025

An Analysis of Corn Basis Volatility Along the Mississippi

Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, Chicago, IL

04/14-15/2025

Exploring the Dynamics of the El Niño Southern Oscillation and Food Commodity Prices

Graduate Student Seminar Series, Dept. of Agricultural and Applied Economics, Virginia Tech

11/20/2024

Exploring the Dynamics of Food Commodity Prices & Weather Anomalies using a STAR model

Agricultural & Applied Economics Association (AAEA) Meeting, New Orleans, LA

07/29/2024

Virginia Association of Economists Annual Meeting, Lexington, VA

04/25-26/2024 03/27/2024

Graduate & Professional Student Senate Research Symposium, Virginia Tech Southern Agricultural Economics Association (SAEA) Meeting, Atlanta, GA

02/3-6/2024

Using Remote Sensed Data for Social & Economic Decision Making in Zimbabwe

Data Science for the Public Good - Annual Symposium, Virginia Tech

08/04/2022

Availability of Services: Evolving Demographics, Housing, & Traffic in Rappahannock County, VA

Data Science for the Public Good - Annual Symposium, Virginia Tech

08/06/2021

Willingness of Consumers to Accept GM Maize in the Accra Metropolis

Poster Presentation, Department of Ag. Econ. & Agribusiness, The University of Ghana, Accra, Ghana

05/2018

Virginia Polytechnic Institute & State University Graduate Research Assistant	Blacksburg, Virginia 08/2020 - Present	
Data Science for the Public Good	Virginia Tech & UVA Biocomplexity Institute	
Graduate Research Fellow/Team Leader	06/2022 - 08/2022	
United Nations WFP: Food Assistance for Assets Pro Research Associate (with Anubhab Gupta)	Virginia Tech 08/2021 - 05/2022	
Data Science for the Public Good Research Associate/Mentor	Virginia Tech & UVA Biocomplexity Institute $06/2021-08/2021$	
The University of Georgia Graduate Research Assistant	Athens, Georgia 08/2018 - 05/2020	
The University of Ghana, Legon	Accra, Ghana	
Research Assistant	09/2017 - 09/2018	
Teaching Experience		
Virginia Polytechnic Institute & State University Instructor of Record	Blacksburg, Virginia	
AAEC 1006 - Macroeconomic Principles Co-Instructor	Spring 2025	
AAEC 1006 - Macroeconomic Principles	Spring 2023, Fall 2022	
$AAEC\ 3424\ -\ Value-Based\ Management\ in\ Agribusiness\ (Guest\ Leccender)$	sture) Spring 2023	
Graduate Teaching Assistant		
AAEC 5946: Econometric Theory & Practice	Fall 202.	
AAEC 5904: Project and Report - Graduate Capstone	Summer 2024, 202	
AAEC 4484/5484; STAT 5484 - Applied Economic Forecasting (In-		
AAEC 5484 - Applied Economic Forecasting (Online)	Spring 202.	
AAEC 5014 - Applied Economic Analytics (Online)	Fall 202	
AAEC 5804 - Fundamentals of Econometrics (Online)	Spring 202	
AAEC 5024 - Mathematical Programming for Economists (Online)	Fall 2020	
The University of Georgia	Athens, Georgia	
Graduate Teaching Assistant	E 11 224	
AAEC 3690 - Agribusiness Finance	Fall 201.	
The University of Ghana, Legon	Accra, Ghan	
Teaching Assistant AGEC 212: Macroeconomics: Principles & Application to the Econ	09/2017 - 09/2016 omy of Ghana Spring 2016	
AGEC 211: Microeconomics: Principles & Application- Households		
D-Mega College (Remedial School), Madina Academic Tutor (Interim)	Accra, Ghana 08/2017 - 09/2017	
Professional Experience		
COVID-19 Web Analytics App	Humboldt University of Berlin	
Project Associate (with Ernest K. Nketiah)	06/202	
Ghana Revenue Authority, Kaneshie Medium Taxpay		
Intern Grants	06/2016 - 09/201	

Virginia Tech Graduate & Professional Student Senate Conference Travel Grant

Awarded: \$300

Awarded: \$300

Awarded: \$300

Agricultural and Applied Economics Association (AAEA) Meeting (2024) - New Orleans, LA

Virginia Association of Economists Annual Meeting (2024) - Lexington, VA

Southern Agricultural Economics Association (SAEA) Meeting (2023) - Atlanta, GA

Honors & Awards

Honors & Awards	
• AAEA-COSBAE Mentoring and Outreach Leadership Development (M.O.L.D.) Program Fell	low 2024-2025
• Best Paper Award at the Virginia Association of Economists Meeting	2024
• Cranwell Ambassador for the Cranwell Ambassadors Program	2023 - 2024
• Nominee: Outstanding Graduate Student Leader (Student Organization Leadership Awards a	
• Graduate Assistantship at Virginia Tech	2021 - 2024
• Graduate Assistantship at The University of Georgia, Athens	2018 - 2021
• Best poster for an undergraduate dissertation - Dept. of Ag. Econ. & Agribusiness, Univ. of	
• The Asenso Okyere Award for Academic Excellence - Commonwealth Hall, The University of	
Reviewer Duty	2010 2010
• International Journal of Fruit Science	2023
• Abstract Reviewer - AAEA Annual Meeting	2025
Leadership Roles, Service & Professional Development	_0_0
Virginia Association of Economists	Virginia
Judge - Best Paper Award	2025
Agricultural and Applied Economics (AAEC) Graduate Student Association	n Virginia Tech
President	08/2023 - 07/2024
Vice-President	08/2022 - 07/2023
Cranwell International Center	Virginia Tech
Changing Conducts Students' Association at Vincinia Tools	08/2023 - 05/2024
Ghanaian Graduate Students' Association at Virginia Tech	Virginia Tech
President The Black Cultural Center	03/2023 - 12/2023 Vincinia Took
Advisory Board Member	Virginia Tech 08/2022 - 12/2022
The Graduate & Professional Student Senate	Virginia Tech
Senator	08/2022 - 07/2024
Graduate Assistantship Support Task Force Member	05/2022 - 01/2023
Virginia Governor's School for Agriculture	Virginia Tech
Judge - Student Presentations	07/2022
The African Graduate Students' Organization (AGSO @ VT)	Virginia Tech
President & Interim Media Coordinator	08/2021 - 07/2022
Minorities in Agriculture, Natural Resources & Related Sciences	The University of Georgia
Member (MANRRS)	02/2019 - 05/2020
Agriculture, Nutrition and Health Academy Conference	The University of Ghana
Volunteer	06/2018
Alliance for a Green Revolution in Africa (AGRA)	The University of Ghana
Assisting Rapporteur (Knowledge Exchange Workshop on Agricultural Risk Insurance Systems) International Association of Students in Agriculture & Related Sciences	05/2018 The University of Ghana
Project Committee Deputy head	01/2016 - 01/2017
Project Committee Member	06/2015 - 01/2016
Editorial Board Secretary	01/2015 - 01/2016
EdAid Foundation	The University of Ghana
Volunteer Student-Teacher	06/2016 - 07/2016
Enactus University of Ghana	The University of Ghana
Team Member Drofossional Mambarshins	01/2015 - 01/2016
Professional Memberships	
• Southern Agricultural Economics Association (SAEA)	2023 - Present
• Agricultural & Applied Economics Association (AAEA)	2022 - Present
• Ghana Association of Agricultural Economists (GAAE)	2017 - Present
• Agriculture, Nutrition and Health (ANH) Academy	2017 - Present

Technical Skills

Proficient: R, Stata, SPSS, \LaTeX

Working knowledge: Python, Minitab, JMP, Tableau

Competencies: Big Data Analytics, Statistical Modeling, Machine Learning