

# LEONARD-ALLEN AMARH QUAYE

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## Education

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### Virginia Tech

*Ph.D. in Economics, Agriculture*

- Co-chairs: [Shamar L. Stewart](#), [Matthew T. Holt](#)
- Dissertation: Essays on Applied Econometrics in Agriculture

Blacksburg, Virginia

*Expected: 05/2025*

### The University of Georgia

*M.Sc. in Agricultural & Applied Economics*

Athens, Georgia

*05/2020*

### The University of Ghana, Legon

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

Accra, Ghana

*05/2017*

## Areas of Interest

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- Applied Econometrics
- Time Series Analysis
- Development Economics
- Agribusiness

## Publications

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### Policy Paper |

- Gupta, A. and **Quaye, L.**, “Cost-benefit Analysis of WFP’s Food Assistance for Assets projects: Evidence from Rwanda and Zimbabwe” UN World Food Programme.” April 5, 2022.

### Revise and Resubmit |

- 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.*

### Under Review |

- **Quaye, L-A.**, [Eugene K. M. Nuworsu](#) *Improved Drinking Water Sources and Self-Reported Drinking Water Quality*

### Working Papers |

- **Quaye, L-A.**, [Stewart, S. L.](#), [Holt, M. T.](#) *Exploring the Dynamics of Food Commodity Prices and Weather Anomalies using a STAR model.*
- **Quaye, L. A.**, [Genti Kostandini](#) *Impact of Formal Household Land Ownership on Farm Productivity & Rural Youth Employment in Agriculture in Ghana*

### 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/>

### Work in Progress |

- **Quaye, L-A.**, [Stewart, S. L.](#) *Barge Freight Rates and Price Volatility in Grain Markets.*

## Presentations & Conferences

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### Conference of the Food Distribution Research Society

*Presented: Exploring the Dynamics of Food Commodity Prices and Weather Anomalies using a STAR model* 10/20-22/2024

Fajardo, PR

### Agricultural and Applied Economics Association (AAEA) Meeting

*Presented: Exploring the Dynamics of Food Commodity Prices and Weather Anomalies using a STAR model* 07/28-31/2024

New Orleans, LA

### Virginia Association of Economists Annual Meeting

*Presented: Exploring the Dynamics of Food Commodity Prices and Weather Anomalies using a STAR model* 04/25-26/2024

Lexington, VA

### Graduate & Professional Student Senate Research Symposium

*Presented: Exploring the Dynamics of Food Commodity Prices and Weather Anomalies using a STAR model* 03/27/2024

Virginia Tech

### Southern Agricultural Economics Association (SAEA) Meeting

*Presented: Exploring the Dynamics of Food Commodity Prices and Weather Anomalies using a STAR model* 02/3-6/2024

Atlanta, GA

### Data Science for the Public Good - Annual Symposium

*Presented: “Using Remote Sensed Data for Social & Economic Decision Making in Zimbabwe”* 08/04/2022

Virginia Tech

### Data Science for the Public Good - Annual Symposium

*Presented: “Availability of Services: Evolving Demographics, Housing, & Traffic in Rappahannock County, VA”.* 08/06/2021

Virginia Tech

### Department of Ag. Econ. & Agribusiness: Poster Presentation

*Presented: Willingness of consumers to accept GM maize in the Accra Metropolis - The University of Ghana* 05/2018

Accra, Ghana

05/2018

## Research Experience

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<b>Virginia Polytechnic Institute &amp; State University</b> <i>Graduate Research Assistant</i>	<b>Blacksburg, Virginia</b> <i>08/2020 - Present</i>
<b>Data Science for the Public Good</b> <i>Graduate Research Fellow/Team Leader</i>	<b>Virginia Tech &amp; UVA Biocomplexity Institute</b> <i>06/2022 - 08/2022</i>
<b>United Nations World Food Programme: Food Assistance for Assets Project</b> <i>Research Associate (with Anubhab Gupta)</i>	<b>Virginia Tech</b> <i>08/2021 - 05/2022</i>
<b>Data Science for the Public Good</b> <i>Research Associate/Mentor</i>	<b>Virginia Tech &amp; UVA Biocomplexity Institute</b> <i>06/2021-08/2021</i>
<b>The University of Georgia</b> <i>Graduate Research Assistant</i>	<b>Athens, Georgia</b> <i>08/2018 - 05/2020</i>
<b>The University of Ghana, Legon</b> <i>Research Assistant</i>	<b>Accra, Ghana</b> <i>09/2017 - 09/2018</i>

## Teaching Experience

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<b>Virginia Polytechnic Institute &amp; State University</b> <i>Graduate Teaching Assistant</i>	<b>Blacksburg, Virginia</b>
<i>AAEC 4484/5484; STAT 5484 - Applied Economic Forecasting (In-person)</i>	<i>Spring 2024</i>
<i>AAEC 5484 - Applied Economic Forecasting (Online)</i>	<i>Spring 2024</i>
<i>AAEC 5904: Project and Report - Graduate Capstone</i>	<i>Summer 2024, 2023</i>
<i>AAEC 5946: Econometric Theory &amp; Practice</i>	<i>Fall 2024</i>
<i>AAEC 3424 - Value-Based Management in Agribusiness</i>	<i>Spring 2023</i>
<i>AAEC 5014 - Applied Economic Analytics (Online)</i>	<i>Fall 2023</i>
<i>AAEC 1006 - Economics of the Food and Fiber System</i>	<i>Spring 2023, Fall 2022</i>
<i>AAEC 5804 - Fundamentals of Econometrics (Online)</i>	<i>Spring 2021</i>
<i>AAEC 5024 - Mathematical Programming for Economists (Online)</i>	<i>Fall 2020</i>
<b>The University of Georgia</b> <i>Graduate Teaching Assistant</i>	<b>Athens, Georgia</b>
<i>AAEC 3690 - Agribusiness Finance</i>	<i>Fall 2019</i>
<b>The University of Ghana, Legon</b> <i>Teaching Assistant</i>	<b>Accra, Ghana</b>
<i>AGEC 212: Macroeconomics: Principles &amp; Application to the Economy of Ghana</i>	<i>09/2017 - 09/2018</i>
<i>AGEC 211: Microeconomics: Principles &amp; Application- Households &amp; Firms</i>	<i>Spring 2018</i>
<i>AGEC 211: Microeconomics: Principles &amp; Application- Households &amp; Firms</i>	<i>Fall 2017</i>
<b>D-Mega College (Remedial School), Madina</b> <i>Academic Tutor (Interim)</i>	<b>Accra, Ghana</b> <i>08/2017 - 09/2017</i>

## Professional Experience

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<b>COVID-19 Web Analytics App</b> <i>Project Associate (with Ernest K. Nketiah)</i>	<b>Humboldt University of Berlin</b> <i>06/2022</i>
<b>Ghana Revenue Authority, Kaneshie Medium Taxpayer Office</b> <i>Intern</i>	<b>Accra, Ghana</b> <i>06/2016 - 09/2016</i>

## Grants

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<b>Virginia Tech Graduate &amp; Professional Student Senate Conference Travel Grant</b> <i>Conference of the Food Distribution Research Society (2024) - Fajardo, Puerto Rico</i>	<i>Awarded: \$300</i>
<i>Agricultural and Applied Economics Association (AAEA) Meeting (2024) - New Orleans, LA</i>	<i>Awarded: \$300</i>
<i>Virginia Association of Economists Annual Meeting (2024) - Lexington, VA</i>	<i>Awarded: \$300</i>
<i>Southern Agricultural Economics Association (SAEA) Meeting (2023) - Atlanta, GA</i>	<i>Awarded: \$300</i>

## Honors & Awards

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- Mentoring and Outreach Leadership Development (M.O.L.D.) Program Fellow ([AAEA-COSBAE](#)) 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 at Virginia Tech) 2022 & 2023
- 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 Ghana 2018
- [The Asenso Okyere Award for Academic Excellence](#) - Commonwealth Hall, The University of Ghana 2015 - 2016

## Leadership Roles, Service & Professional Development

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<b>Agricultural and Applied Economics (AAEC) Graduate Student Association</b>	Virginia Tech
<i>President</i>	08/2023 - 07/2024
<i>Vice-President</i>	08/2022 - 07/2023
<b>Cranwell International Center</b>	Virginia Tech
<i>Cranwell Ambassador</i>	08/2023 - 05/2024
<b>Ghanaian Graduate Students' Association at Virginia Tech</b>	Virginia Tech
<i>President</i>	03/2023 - 12/2023
<b>The Black Cultural Center</b>	Virginia Tech
<i>Advisory Board Member</i>	08/2022 - 12/2022
<b>The Graduate &amp; Professional Student Senate</b>	Virginia Tech
<i>Senator</i>	08/2022 - 07/2024
<i>Graduate Assistantship Support Task Force Member</i>	05/2022 - 01/2023
<b>Virginia Governor's School for Agriculture</b>	Virginia Tech
<i>Judge</i>	07/2022
<b>The African Graduate Students' Organization (AGSO @ VT)</b>	Virginia Tech
<i>President &amp; Interim Media Coordinator</i>	08/2021 - 07/2022
<b>Minorities in Agriculture, Natural Resources &amp; Related Sciences</b>	The University of Georgia
<i>Member (MANRRS)</i>	02/2019 - 05/2020
<b>Agriculture, Nutrition and Health Academy Conference</b>	The University of Ghana
<i>Volunteer</i>	06/2018
<b>Alliance for a Green Revolution in Africa (AGRA)</b>	The University of Ghana
<i>Assisting Rapporteur (Knowledge Exchange Workshop on Agricultural Risk Insurance Systems)</i>	05/2018
<b>International Association of Students in Agriculture &amp; Related Sciences</b>	The University of Ghana
<i>Project Committee Deputy head</i>	01/2016 - 01/2017
<i>Project Committee Member</i>	06/2015 - 01/2016
<i>Editorial Board Secretary</i>	01/2015 - 01/2016
<b>EdAid Foundation</b>	The University of Ghana
<i>Volunteer Student-Teacher</i>	06/2016 - 07/2016
<b>Enactus University of Ghana</b>	The University of Ghana
<i>Team Member</i>	01/2015 - 01/2016

## Reviewer Duty

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- *International Journal of Fruit Science* 2023

## Professional Memberships

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- Food Distribution Research Society (FDRS) 2024 - Present
- 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

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**Software/Programming Languages:** R, Stata, SPSS, L<sup>A</sup>T<sub>E</sub>X, Minitab, JMP, Tableau  
**Other Technologies/Skills:** R Shiny, Remote Sensing, Google Earth Engine