

Joseph Emmanuel Quansah, Ph.D., MSE

Associate Professor

Department of Agriculture, Environment and Nutrition Sciences, Tuskegee University

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Education & Training

Purdue University, West Lafayette IN

Agricultural & Biological Engineering Ph.D. 2007

Purdue University, West Lafayette IN

Civil Engineering MSE 2004

Administrative Responsibilities and Achievements

Led in the establishment, and directs

Joseph Quansah (PI, Tuskegee University) - *Computational Skills Development for Next Generation Agriscience Professionals for Sustaining Data Driven Agriculture, NIFA Higher Education Challenge (HEC)* - \$739,050 (

- Joseph E Quansah**, Enhancing GEOINT in HBCUs: The case of Tuskegee University. National Geospatial Intelligence Agency (NGA) Intelligence Community (IC) Academic Research Symposium, National Academy of Sciences, Constitution Ave, Washington, DC Sept. 26-28, 2017.
- J E. Quansah**, Enhancing GEOINT in Minority Serving Institutions. 2017 Community Geospatial Intelligence Training Council (CGTC) Annual Conference. NGA Headquarters, Springfield, Virginia, June 28-29, 2017
- J. E Quansah**, P. Welikhe, K. Boote, S. Asseng, G. El Afandi, S. Fall, D. Mortley, and R. Ankumah. Assessment of Corn and Soybean Yield Responses to Regional Climate Change. ARD Research Symposium. Atlanta, Georgia 30303, April 1-4, 2017
- D. Blanks, **J. E Quansah** and S. Fall. Satellite Remote Sensing Approach to Forest Management. ARD Research Symposium. Atlanta, Georgia 30303, April 1-4, 2017
- M. Franklin, S. Fall and **J. E Quansah**, Assessing Vulnerability to Climate Extremes in Alabama. ARD Research Symposium. Atlanta, Georgia 30303, April 1-4, 2017
- Gilbert Rochon, Marseyas Fernandez, Thierno Thiam, **Joseph E Quansah**, Souleymane Fall, Gamal Salah El Afandi, Chaker El Amrani, Tajje-Eddine Rachidi, Subhas Sikdar, Gülay Altay, Tarek El-Ghazawi, Mohamed Magdy Abdel Wahab, Nosa Egiebor And Chadia Affane Aji. : Towards Pan-African Disaster Resilience: Potential Collaborative Extension of the Mediterranean Dialogue Earth Observatory (MDEO) Model to Support Biogenic and Anthropogenic Disaster Resilience, Early Warning, Mitigation and Recovery for Vulnerable Populations within the African Continent and in the African Diaspora, 11th International Conference of the African Association of Remote Sensing of the Environment (AARSE), Kampala, Uganda. Oct. 24-28.2016.
- Joseph E. Quansah**, Enhancing Geospatial Research, Teaching and Outreach Capabilities at Tuskegee University: An Update. National Geospatial Intelligence Agency (NGA) Intelligence Community Academic Research Symposium, National Academy of Sciences, Keck Center, Washington, DC Sept. 19-23, 2016.
- James Hunter, Dong Hee Kang, **Joseph Quansah** and Gary Wallace Using the Long-Term Hydrologic Impact Assessment Method as a tool for Stormwater Compliance, 13th Urban Watershed Management Symposium, World Environmental and Water Resources Congress. West Palm Beach, Florida, May 22-26, 2016.
- Pauline K. Welikhe, **Joseph E. Quansah**, Souleymane Fall and Gamal El Afandi. Soil Moisture Estimation and Crop Yield Projection Using Geospatial Approach. NGA GEOINT R&D STEM Outreach Symposium, Springfield4 Tf1 /F14Wailay Altay, Tarek El

Symposium on Weather and Climate Extremes, Food Security and Biodiversity (ISCEFS), Sponsored by George Mason University, Global Environment and National Resource Institute, the UN World Meteorological Organization (WMO) and the UN Food and Agriculture Organization (FAO), Washington, DC, Oct. 20-24, 2014. Session 5-*Food, Water & Energy in Africa*

Gilbert Rochon, Chaker El Amrani, Tajje-eddine Rachidi, Gülay Altay, Tarek El Ghazawi, Gamal Salah El Afandi, Mohammed A. Mohammed, **Joseph E Quansah**, Souleymane Fall and Chadia Affane-Aji.. Real-Time Access to Orbital Optical Sensors for Disaster Early Warning: NATO Science for Peace Sponsored Partnership of Universities in Morocco, Turkey and the USA. The OMICS Group OPTICS 2013: International Conference and Exhibition on Lasers, Optics and Photonics. San Antonio, Texas. Oct. 07-09, 2013.

Gyawu R, Fall S, **Quansah J**, Bovell-Benjamin A. Assessment of the consumer food and physical activity environment in the Alabama Black Belt using GIS. Association of 1890 Research Directors, Inc. 1890 Research: Sowing seeds of change 1890 for the global community. Jacksonville, FL, US, April 7-10, 2013.

Gyawu R, Fall S, **Quansah J**, Bovell-Benjamin A. Assessment of the consumer food and physical activity environment in the Alabama Black Belt using GIS. ARD, (2013). Professional Agricultural Workers Conference Oral Presentation, December 2013

Joseph E Quansah, Gamal El Afandi and Souleymane Fall. Geospatial and Climate Change Research at Tuskegee University. Presentation to Scientists and Researchers USDA ARS Soil Sedimentation Laboratory in Oxford, Mississippi, February 17, 2012.

Hunter, J., Engel, B., and **Quansah, J.** Web-Based Low Impact Development Decision Support Tool for Watershed Planning. Low Impact Development. Proceedings of ASCE. doi: 10.1061/41099(367) 43: 484-495(2010).

Gilbert Rochon, Dev. Niyogi, Souleymane Fall, **Joseph E. Quansah**, Larry Biehl, Bereket Araya, Chetan Maringanti, Angel Torres Valcarcel, Lova Rakotomalala, Hildred S. Rochon, Bertin Hilaire Mbongo & Thierno Thiam. Best Management Practices (BMPs) for Corporate, Academic and Governmental Transfer of Sustainable Technology to Developing Countries. Clean Technologies & Environmental Policy. Vol. 12, (1): February, 19-30. 2010. Special Issue on Best Management Practices for Technology Transfer to Industry. Invited submission. 4/28/09 ISSN 1618-954X(Print) 1618-95558 (online). Eds., Antonio Martins & Teresa Mata, Springer: DOI 10.1007/s10098-009-0218-3

Gilbert L. Rochon, Chaker El Amrani, Tajjeddine Rachidi, Dr. Gülay Altay - El Afandi, **Joseph E Quansah**, Souleymane Fall, Gülay Altay and Mohammad A. Mohammad Satellite Data Acquisition & Distribution Constraints: Case Studies From Africa And Alabama, USA Seaspac Corp. 20th International Remote Sensing Conference San Diego, California, Oct. 21 - 24, 2012

G. Rochon, C. El Amrani, T. Rachidi, G. Altay, T. El Ghazawi, O. Ersoy, **J. Quansah**, S. Fall, C. A. Aji, G. S. El Afandi 2012: Real-Time Remote Sensing for Disaster Life Cycle Management: The Mediterranean Dialogue Earth Observatory (MDEO). African Association of Remote Sensing of the Environment (AARSE), 9th International Conference, El Jadida, Morocco, Oct. 29-Nov. 02, 2012.

El Afandi, G., Fall, S., Egiebor, N., Rochon, G. and **Quansah, J.** 2012: Estimation of Meteorological Drought Index over West Africa. 8th International Scientific Conference, Al-Azhar University, Environment, Development, and Bioinformatics, Cairo, Egypt, March 26-28, 2012

Joseph E. Quansah

Gilbert L. Rochon, Bertin Hilaire Mbongo, Larry Biehl, Jinha Jung, Souleymane Fall, **Joseph E. Quansah**, Bereket Araya, Abdur Rahman Maud, Wonkook Kim, Darion Grant and Thierno Thiam
Heterogeneous Data for Improved Identification & Sustainable Mitigation of Infectious Disease Vector Habitat and for Assessment of Vulnerability to Vector-Borne, Water-
Egypt Workshop on Space Technology and Geo-information for Sustainable Development, Cairo, Egypt 14-17 June 2010.

Gilbert L. Rochon, Larry Biehl, Wonkook Kim, Abdur Rahman M. Maud, Bertin Hilaire Mbongo, Jinha Jung, Souleymane Fall, **Joseph E. Quansah**, Thierno Thiam, Benjamin Weiss and Oluwatoba Omotilewa.
(2010) "Earth Observing Satellites for Environmental Monitoring & Assessment: Availability, Acquisition, Analysis & Application of Archival and Real-Time Remotely Sensed Data." International Conference on Disaster Risks and Climate Change: Technological and Managerial Opportunities & Challenges for the Greater Mekong Sub-Region. Mae Fah Luang University, Natural Resources & Environmental Monitoring Center (NREMC) & School of IT, in collaboration with the Asian Disaster Preparedness Center (ADPC), MRC, DDPM, Water Resources Dept., National Park Dept., Purdue University and Fulbright-Thailand. Chiang Rai, Thailand, July 10-12, 2010

James G. Hunter, Bernard A. Engel, and **Joseph E. Quansah** Web-

Khomotso Kganyago, Souleymane Fall, **Joseph E. Quansah**, Bereket Araya. Overcoming Bandwidth Limitations to Accelerate Applications of Remote Sensing & High-Performance Computing for African Development: Contributions from Egypt, Nigeria and South Africa. Remote Sensing on the African Continent, IEEE IGARSS, Boston, MA, Hynes Convention Center, July 9, 2008

Gilbert L. Rochon, Lefteri Tsoukalas, Chris Johannsen, **Joseph E. Quansah**, Larry Biehl, *et. al.* BioFuels: The Dialectics of Energy Security and Food Security, BioFuels Symposium, North Atlantic Treaty Organization

External and Non-Committee Advising

20. Mercy A. A. Derkyi, Ph.D. "Interactive governance of conflicts over forest and tree resources in Ghana's high forest zone" African Studies Centre, Leiden, Ph.D. Dissertation, 2012.
21. R. M. Records, M. Arabi, S. R. Fassnacht, W. G. Duffy, M. Ahmadi, and K. C. Hegewisch. Climate change Hydrol. Earth Syst. Sci., 18, 4509–4527, 2014.

University Courses Developed and Taught

Course ID	Course Title	Credits	Semester
EVSC 0695	Introduction to Agricultural Informatics	3	Spring
EVSC 0560	Hydrology & Water Resources Management	3	Spring
EVSC 0560 DL (Online)	Hydrology & Water Resources Management	3	Spring
EVSC 0504	Environmental Science II (Co-Taught)	3	Spring
EVSC 0450/EVSC 0695	Introduction to Agricultural Informatics	3	Spring
EVSC 0545	Remote Sensing: Principles & Applications	3	Fall
Graduate Joint Taught	Emerging Zoonoses Remote Sensing Applications in Epidemiological studies	3	Fall
EVSC 0545 DL(Online)	Remote Sensing: Principles & Applications	3	Fall
PLSS 0425	Soil Genesis and Classification	3	Fall
EVSC 0507	Geographic Information Systems (Co-Taught)	3	Fall
AGEC 501	Environmental, Economics, Sustainable Development and Agriculture (Co-Taught)	3	Fall

Summary of Teaching Evaluations

Average Student Evaluation Scores: **4.8/5**