CURRICULUM VITAE

Winifred Ayinpogbilla Atiah (*PhD)*

Meteoroloy and Climate Scientist

Kwame Nkrumah University of Science and Technology (KNUST)

Department of Physics (DoP), Meteorology and climate Science Unit, Kumasi, Ghana

Current Position: PostDoc

PERSONAL PROFILE

Name:	Winifred Ayinpogbilla Atiah
Date and Place of Birth:	20th August 1990; Zuarungu
Nationality:	Ghanaian
Marital Status:	Married
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UNIVERSITIES ATTENDED AND ACADEMIC DEGREES EARNED

2015-2018:	**Kwame Nkrumah University of Science and Technology (KNUST)**, PhD (Meteorology and Climate Science) PhD Thesis Topic: Performance Assessment of Satellite and DACCIWA Optical Gauge Rainfall Products for the Analysis of Trends and Drivers of Rainfall Extremes in Ghana.
2014-2015:	**African Institute of Mathematical Sciences (AIMS), Senegal** MSc (Mathematical Sciences). MSc. Thesis Title: The Variability of Wet and Dry Spells in Savannah Zones of Ghana from Wavelets Analysis Approach
2009-2013	**Kwame Nkrumah University of Science and Technology,** BSc (Meteorology and Climate Science), **First Class**. BSc. Thesis Title: Investigation of errors sources in the Pluvio and GMet gauges in Ghana.

SCHOOLS ATTENDED WITH DATES AND QUALIFICATIONS

2005 - 2008: Notre Dame Girls Senior High School, Fiapre-Sunyani; WASSCE

2002 - 2005: Sacred Heart Junior High School, Bolgatanga; BECE

WORK EXPERIENCE

August 2018 – October 2018:	Tutoring, KNUST, Kumasi, Ghana.
November 2016 - February 2017:	Teaching Assistant, Botswana International University of Science and Technology (BIUST), Palapye, Botswana.
August 2013-August 2014:	Teaching Assistant, KNUST, Kumasi, Ghana.
June 2012-August 2012:	Data Analyst, Afrikids, Bolgatanga, Ghana.

June 2010-August 2010: Intern and Data analyst, World Vision Ghana, Talensi-Nabdam District-Bolgatanga, Ghana.

COMPUTER SKILLS

I have expertise in Windows and Linux-Ubuntu operating systems.

I have knowledge in the use of LaTex, Microsoft Word, Microsoft Powerpoint, LibreOffice Writer, LibreOffice Impress, grads, Gnuplot, panoply, CDO automations.

I have expertise in Python, Matlab, R and Bash programming languages.

FELLOWSHIPS

i. Global Challenges Research Fund, SWIFT-KNUST PostDoc, April 2020 – July 2021
ii. Organization for Women in Science Sandwich Fellowship, 2016 – 2019
iii. African-German Network of Excellence in Science (AGNES) fellowship, 2016
iv. African Institute of Mathematical Sciences (AIMS) – Next Einstein Initiative (NEI), 2014 - 2015
v. DACCIWA Project PhD fellowship, 2015 – 2018
vi. Association of African Universities (AAU) internship grant (2016)

AWARDS

2012 to 2013: Certificate of Honour, Department of Physics, Kwame Nkrumah University of Science and Technology. **Best student (BSc. meteorology and climate science programme)**

MEMBERSHIP OF PROFESSIONAL BODIES/ASSOCIATIONS

Member, Green Ambassadors for Climate in Africa CCAO, December 2020
Member, Organization for Women in Science in the Developing World (OWSD), 2015- till date

PARTICIPATION IN RESEARCH PROJECTS

April 2020 to 2021: Global Challenges Research Fund, SWIFT
2015 to 2018: Dynamic-Aerosol-Chemistry-Cloud interactions in West Africa (**DACCIWA**)

LIST OF PEER REVIEWED PAPERS, BOOK and BOOK CHAPTER PUBLICATIONS

I. **Atiah, W. A.**, Amekudzi, L. K., Aryee, J. N. A., Preko, K. and Danuor, S. K. (2020a) Validation of satellite and merged rainfall data over ghana, west africa. Atmosphere, 11, 859.
II. **Atiah, W. A.**, Tsidu, G. M., Amekudzi, L. and Yorke, C. (2020b) Trends and interannual variability of extreme rainfall indices over ghana, west africa. Theoretical and Applied Climatology, 1–15
III. **Atiah, W. A.**, Tsidu, G. M. and Amekudzi, L. K. (2020c) Investigating the merits of gauge and satellite rainfall data at local scales in ghana, west africa. Weather and Climate Extremes, 100292
IV. Maranan, M., Fink, A. H., Knippertz, P., Amekudzi, L. K., **Atiah, W. A.** and Stengel, M. (2020) A process-based validation of gpm imerg and its sources using a mesoscale rain gauge network in the west african forest zone. Journal of Hydrometeorology, 533 21, 729–749.
V. Aryee, JNA and Amekudzi, LK and Preko, K and **Atiah, WA** and Danuor, SK, (2020), Estimation of planetary boundary layer height from radiosonde profiles over West Africa during the AMMA field campaign: Inter-comparison of different methods, Scientific African

VI. **Atiah, Winifred A** and Amekudzi, Leonard K and Quansah, Emmanuel and Preko, Kwasi, Atmospheric and Climate Sciences (2019),The Spatio-Temporal Variability of Rainfall over the Agro-Ecological Zones of Ghana.

VII. Aryee, J. N. A, Amekudzi, L. K., **Atiah W.,** Osei, M., and Agyapong, E. (2018), Overview of surface to near-surface atmospheric profiles over selected domain during the QWECI project. Meteorology and Atmospheric Physics, pages 1-15.

VIII. J.N.A. Aryee, L.K. Amekudzi, E. Quansah, N.A.B. Klutse, **W.A. Atiah**, and C. Yorke, (2017), Development of high spatial resolution rainfall data for Ghana, Int. J. Climatol., (wileyonlinelibrary.com) DOI: 10.1002/joc.5238.

IX. L.K. Amekudzi, M.A. Osei, **W.A. Atiah**, J. N.A. Aryee, M.A. Ahiataku, E. Quansah, K. Preko, S.K. Danuor and A. H. Fink. (2016), Validation of TRMM and FEWS satellite rainfall estimates with rain gauge measurement over Ashanti Region, Ghana, Journal of Atmospheric and Climate Sciences, 6(4), 500-518.

X. Bessardon, G., Brooks, B. J., Abiye, O., Adler, B., Ajao, A., Ajileye, O., Altstadter, B., Amekudzi, L. K., Aryee, J. N. A., **Atiah, W. A.**, Ayoola, M., Babi Žc, K., B šarfuss, K., Bezombes, Y., Bret, G., Brilouet, P.-E., Cayle-Aethelhard, F., Danuor, S., Delon, C., Derrien, S., Dione, C., Durand, P., Fosu-Amankwah, K., Gabella, O., Groves, J., Handwerker, J., Kalthoff, N., Kohler, M., Kunka, N.,Jambert, C., Jegede, G., Lampert, A., Leclercq, J., Lohou, F., Lothon, M., Medina, P., P šatzold, F., Pe-druzo Bagazgoitia, X., Reinares, I., Sharpe, S., Smith, V., Sunmonu, L. A., Tan, N., and Wieser, A. (2018). A dataset of the 2016 monsoon season meteorology in southern West African overview from the DACCIWA campaign.

POSTER AND CONFERENCE PRESENTATIONS

June 23 2016: Physics World Press Talk on Immigration and Science at the 66th Lindau Nobel Laureate Meeting.

April 2015: The Variability of Wet and Dry Spells in Savannah Zones of Ghana from Wavelets Analysis Approach, Research Seminar in KNUST, Kumasi-Ghana.

CONFERENCES/SEMINARS AND WORKSHOPS PRESENTATIONS

1. Maranan, Marlon and Fink, Andreas H and Amekudzi, Leonard K and **Atiah, Winifred A** and Stengel, Martin, A Sensor-and Rainfall-Type-Based Validation of GPM IMERG for the West African Guinea Coast. In: 100th American Meteorological Society Annual Meeting, Boston Convention and Exhibition Center- 253A, January 16, 2020.
2. **Winifred Atiah**, L. K. Amekudzi, A. H. Fink, M. Maranan, AND J. Aryee, Validation of satellite and gauge-based gridded rainfall products over Ghana (West Africa). In: 99th Annual Meeting, Phoenix, 6th - 10th January, 2019.
3. **W. A. Atiah,** L. K. Amekudzi (2018), Assessment of Satellite and DACCIWA Optical Gauge (DOGs) Rainfall Products in Ghana. In: Dynamic-Aerosol-Chemistry-Cloud Interactions in West Africa (DACCIWA) Project Meeting, 15th - 17th October , 2018, Abidjan, Cote D' lvoire.
4. L. K. Amekudzi, **W. A. Atiah** (2017), Micro-scale Rainfall Characteristics over parts of the Ashanti Region of Ghana. In: Dynamic-Aerosol-Chemistry-Cloud Interactions in West Africa (DACCIWA) Project Meeting, 24th - 27th October, 2017, Karlsruhe, Germany.

4. L. K. Amekudzi, **W. A. Atiah,** J. N. A. Aryee (2017), Synthesis of Atmospheric and Climate Research Activities in KNUST. In: College of Science Research Seminar, February, 2018, Kumasi, Ghana.

5. **W. A. Atiah,** L. K. Amekudzi (2016), Validation of Satellite and Merged Rainfall Products over Ghana. In: Dynamic-Aerosol-Chemistry-Cloud Interactions in West Africa (DACCIWA) Project Meeting, 2nd - 4th October, 2016, Leeds, UK.
6. **W. A. Atiah,** L. K. Amekudzi (2016), The Variability of Wet and Dry Spells in Savannah Zones of Ghana from Wavelets Analysis Approach, In: Research Seminar in KNUST, 2015 Kumasi-Ghana.
7. Maranan, Marlon; Fink, Andreas H.; Amekudzi, Leonard K.; **Atiah, Winifred A.** Identification and Diagnosis of Rainfall Types over Southern West Africa Using Satellite and Rain Gauge Data. In: 19th EGU General Assembly, EGU2017, proceedings from the conference held 23-28 April, 2017 in Vienna, Austria., p.13625.

LANGUAGE PROFCIENCY	
English:	Fluent (*Language of work and communication*)
French:	Intermediate (*Language of communication*)

REFERENCES

1. Prof. Leonard K. Amekudzi, Provost (College of Science), Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
Email: leonard.amekuzi@gmail.com

2. Prof. Kwasi Preko, Dean, Faculty of Physical and Computational Sciences, and DACCIWA project coordinator, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
Email: kpreko@yahoo.com

3. Prof. Sylvester K. Danuor, Department of Physics and DACCIWA project coordinator, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
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