

## Personal information

Surname(s) / First name(s) **MENSAH Caleb**  
Address(es) c/o University of Energy and Natural Resources, Box 214, Sunyani, Ghana  
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Email(s) caleb.mensah@uenr.edu.gh/ mensah.c@czechglobe.cz/ calnumic@gmail.com  
Nationality(-ies) Ghana  
Date of birth April 14, 1988  
Gender Male  
Language(s) Spoken Asante Twi, English, French

## Education

Dates October 2017 - March 2022  
Title of qualification to be awarded Doctor of Philosophy  
Principal subject Ecology and Environmental Protection in Applied Bioclimatology  
Thesis title *Analýza eddy kovariančních dat měřených v terestrickém ekosystému (Analysis of eddy covariance data measured in terrestrial ecosystem)*  
Supervisor Prof. RNDr. Ing. Michal V. Marek, DrSc., dr.h.c.  
Specialist Supervisor Mgr. Ladislav Šigut, PhD  
Name of the University Agronomická fakulta, Mendel University, Brno, Czech Republic

Dates September 2012 - November 2014  
Title of qualification awarded Master of Philosophy  
Principal subject Meteorology and Climate Science  
Thesis title *Investigation of the Onset, Cessation, and Length of the Rainy Season in Ghana*  
Supervisor Prof. Leonard K. Amekudzi  
Name of the University Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

Dates August 2007 - July 2011  
Title of qualification awarded Bachelor degree (Honours degree)  
Principal subject Meteorology and Climate Science  
Thesis title *Validation of Tropical Rainfall Measuring Mission (TRMM) Satellite rainfall with Ghana Meteorological Agency Synoptic Station Observation over the Forest Belt of Ghana*  
Supervisor Prof. Leonard Amekudzi  
Name of the University Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

## Computer skills and competences

Programming Language(s) FORTRAN, PYTHON, MATLAB, R(statistical), Instat  
Software Linux(Ubuntu), Windows, Word, Excel, Power Point  
Personal Interest Reading, sports and traveling

Research Interest Eddy Covariance analysis over different terrestrial ecosystems, Numerical Weather Prediction, Tropical Climatology

## Conference Presentations and Short Courses

Dates 2nd- 6th September, 2019  
2nd Open Science Meeting of the International Long Term Ecological Research Network, Centre for Environmental Research- UFZ in Leipzig, Germany

Dates 13th- 20th July, 2019  
TERENO NEON Carbon Workshop, Düren, Germany

Dates 7th- 12th April, 2019  
The EGU General Assembly 2019, Vienna, Austria

Dates 11th - 13th September, 2018  
The 3rd ICOS Science Conference, Prague, Czech Republic

Dates 30th July - 3rd August, 2018  
Short Course on Flux Measurements Fundamentals, Karlsruhe Institute of Technology (KIT), IMK-IFU, Garmisch-Partenkirchen, Germany

## Relevant Work Experience

Dates September 2017 - to date  
Postgraduate/Research Student Position: Ústav výzkumu globální změny AV ČR, v.v.i., (Global Change Research Institute), CzechGlobe, Brno, Czech Republic.

Dates August 2016 - to date  
Lecturer: University of Energy and Natural Resources, School of Geosciences, Department of Meteorology and Climate Sciences, Sunyani, Ghana.

Dates April 2013 - July 2016  
Meteorologist: Ghana Meteorological Agency, Accra, Ghana.

## Publications

### Published Articles

Authors **Mensah, C.**, Šigut, L., Fischer, M., Foltýnová, L., Jocher, G., Acosta, M., Kowalska, N., Kokrda, L., Pavelka, M., Marshall, J.D., Nyantakyi, E.K., and Marek, M.V. (2021)

Title Assessing the Contrasting Effects of the Exceptional 2015 Drought on the Carbon Dynamics in Two Norway Spruce Forest Ecosystems.

Journal *Atmosphere*, 12(8), p.988.

Authors **Mensah, C.**, Šigut, L., Fischer, M., Foltýnová, L., Jocher, G., Urban, O., Wemegah, C.S., Nyantakyi, E.K., Chawla, S., Pavelka, M., and Marek, M.V. (2021)

- Title Environmental effects on Normalized Gross Primary Productivity in Beech and Norway spruce forests.  
Journal *Atmosphere*, 12(9), p.1128.
- Authors **Mensah, C.**, Atayi, J., Kabo-Bah, A.T., Švik, M., Acheampong, D., Kyere-Boateng, R., Prempeh, N.A., Marek, M.V. (2020)  
Title Impact of urban land cover change on the garden city status and land surface temperature of Kumasi.  
Journal *Cogent Environmental Science*, 6(1), p.1787738.
- Authors Kabo-bah, A. T., & **Mensah, C.**  
Title Hydropower and the Era of Climate Change and Carbon Financing: The Case From Sub-Saharan Africa. *In Sustainable Hydropower in West Africa* (pp.37-51), **2018**.  
Journal Academic Press, United kingdom, ISBN:978-0-12-813016-2, doi.org/10.1016/B978-0-12-813016-2.09989-1
- Authors **Mensah,C.**, Mensah, M. (2017)  
Title Climate Change and the Viability of Renewable Energy in Ghana.  
Journal *Innovative Energy Research*, 7:196, DOI: <https://doi.org/10.4172/2576-1463.1000196>.
- Authors **Mensah,C.**, Kabo-bah,A.T., Mortey, E.  
Title Assessing The Effects of Climate Change on Sea Level Rise along the Gulf of Guinea  
Journal *Journal of Energy and Natural Resource Management*, Vol. 4, No. 3, 15-22, **2017**, DOI: <https://doi.org/10.26796/jenrm.v4i1.70>
- Authors **Mensah,C.**, Amekudzi, L.K., Klutse, N.A.B., Aryee, J.N.A., Asare,K.  
Title Comparison of Rainy Season Onset, Cessation and Duration for Ghana from RegCM4 and GMet Datasets  
Journal *Atmospheric and Climate Sciences*, **2016**, 6, 300-309; Scientific Research Publishing
- In-Conference Presentations**
- Authors Acosta, M., Krkoška Lorencová, E., Bombelli, A., Beck, J., Salmon, E., Helmoschrot, J., Bamba Sylla, M., Pavelka, M., Vackar, D., **Mensah, C.**, Jorch, V.  
Title Findings from SEACRIFOG Stakeholders Consultation Workshops.  
Journal In Mirtl, M (Eds): *The International Long Term Ecological Research Network, 2nd Open Science Meeting*, p. 19. 02.-07. 09. **2019**
- Authors **Mensah, C.**, Šigut, L., Foltýnová, L., Jocher, G., Acosta, M., Kowalska, N., Pavelka, M., Marek, M. (2019 January).  
Title The effect of drought in 2015 on carbon fluxes in two Norway spruce forest ecosystems with contrasting elevation and age.  
Journal In *Geophysical Research Abstracts* (Vol. 21). European Geosciences Union (EGU) 2019, 7.-12.04.2019. Vienna-Rakousko, Austria
- Authors Hammond, M.E., **Mensah, C.**, Pokorný, R., Hiitola, N.  
Title Gap regeneration in beech and spruce stands at forest district Habrůvka  
Journal Conference proceeding in *SilvaNet - WoodNet 2018, Proceedings Abstracts of Student Scientific Conference*, 28th November, **2018**, p.39-40. ISBN 978-80-7509-593-0

Authors	Pavelka, M., Acosta, M., Dařenova, E., Dušek, J., Fischer, M., Janouš, D., Jocher, G., Kyselová, I., Kowalska, N., Foltýnová, L., Sedlák, P., Šigut, L., Szatniewska, J., Czerný, R., Stellner, S., Trusina, J., Chawla, S., Guerra, T., <b>Mensah, C.</b> , Nguyen, X. V., McGloin, R., Květ, J., Marek, M.V.
Title	The CzeCOS ecosystem stations network.
Journal	In <i>ICOS</i> ,. (Eds): The 3rd ICOS Science Conference, p. 44, <b>2018</b> . The third ICOS Science Conference, 11.-13.09.2018. Prague, Czech Republic
Authors	Boateng, K.A., <b>Mensah, C.</b> , Agyei, T., Švik, M.
Title	Effects of Urbanization on the Landscape of a Modern city in Ghana: A case study of Sunyani
Journal	Conference proceeding in Public recreation and Landscape protection - with nature hand in hand, Mendelova Univerzita v Brno, 2nd - 4th May <b>2018</b> , p.132-139; ISBN 978-80-7509-550-3

## References

Prof. RNDr. Ing. Michal V. Marek, DrSc., dr.h.c. Telephone	Director, Ústav výzkumu globální změny AV ČR, v.v.i., (Global Change Research Institute), CzechGlobe, Brno, Czech Republic, marek.mv@czechglobe.cz +420 511192255
Mgr. Marian Pavelka, PhD  Telephone	Head of Department, Matters and Energy Fluxes, Ústav výzkumu globální změny AV ČR, v.v.i., (Global Change Research Institute), CzechGlobe, Brno, Czech Republic, pavelka.m@czechglobe.cz +420 602254221
Prof. Leonard K. Amekudzi  Telephone	Head, Physics Department, Kwame Nkrumah University of Science and Technology (KNUST), Ghana, leonard.amekudzi@gmail.com +233 201842237