

## BISMARCK OFOSU-BAMFO

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### RESEARCH INTERESTS

Tropical forest ecology, Liana ecology, Phenology, plant biodiversity conservation, ecosystem services, ethnobotany, forest ecosystem studies

### EDUCATIONAL BACKGROUND

PhD Ecology (KNUST, Kumasi) (Ongoing) started August, 2018

- Topic: Ecological Studies on Lianas in the High Forest Zone of Ghana.

MPhil Ecology (KNUST, Kumasi) completed June, 2017

- Thesis: The Effects of Forest Edge on Liana Communities in Wet Evergreen and Moist Semi-deciduous Forest Ecosystems in Ghana.

BSc. (Hons) Biological Sciences (KNUST, Kumasi) completed August, 2012

- Dissertation: Biocontrol of *Sclerotium rolfsii* and *Fusarium oxysporum* using *Trichoderma harzianum*.

### RESEARCH OUTPUT

#### *Journal article*

1. Addo-Fordjour, P., **Ofosu-Bamfo, B.**, Mbroh, E., Arnold, C.K., Opoku Boadi, A., Mulberry, M., Doe, D.E.K, Oduro Takyi, E. (2022). Plant invasion drives liana and tree community assemblages and liana-tree community structure in moist semi-deciduous forests in Ghana. *Biological Invasions* <https://doi.org/10.1007/s10530-022-02933-0>
2. **Ofosu-Bamfo, B.**, Addo-Forjour, P. and Belford, E. J. D. (2022). Edge disturbance shapes liana diversity and abundance but not liana-tree interaction network patterns in moist semi-deciduous forests. *Ecology and Evolution* DOI: 10.1002/ece3.8585
3. Addo-Fordjour, P., Marfo, I., **Ofosu-Bamfo, B.** (2021). Fragmentation drives liana community structure but not the patterns of liana-tree interaction network in two forest ecosystems in Ghana. *Ecological Research* <https://doi.org/10.1111/1440-1703.12258>
4. Addo-Fordjour, P., Antwi Agyei, L., **Ofosu-Bamfo, B.**, Issifu, I. N., Osei, G. O., Appiah-Kubi, R., Bremang, E. K., Koroduah P. O. (2021). Temporal dynamics of liana communities in moist semi-deciduous forests with different management histories in Ghana. *Forest Ecology and Management* <https://doi.org/10.1016/j.foreco.2021.119042>
5. Addo-Fordjour, P., Kadan, F., Rahmad, Z. B., Fosu, D. and **Ofosu-Bamfo, B.** (2020). Wildfire causes shifts in liana community structure and liana-soil relationships in a moist semi-deciduous forest in Ghana. *Folia Geobotanica (1-15)*. DOI 10.1007/s12224-020-09380-6
6. Addo-Forjour, P., **Ofosu-Bamfo, B.**, Kwofie, F., Akyea-Bobi, N., Rahman, F. A. and Amoah, E. (2020). Changes in liana community structure and functional traits along a chronosequence of selective logging in a moist semi-deciduous forest in Ghana. *Plant Ecology and Diversity*. DOI: 10.1080/17550874.2019.1675095

7. **Oforu-Bamfo, B.**, Addo-Forjour, P. and Belford, E. J. D. (2019). Does road-edge affect liana community structure and liana host interactions in evergreen rainforests in Ghana? *Acta Oecologica* 101(2019)103476 [doi: 10.1016/j.actao.2019.103476](https://doi.org/10.1016/j.actao.2019.103476)

#### *Thesis*

- **Oforu-Bamfo, B.** (2017). The Effects of Forest Edge on Liana Communities in Wet Evergreen and Moist Semi-deciduous Forest Ecosystems in Ghana. MPhil Thesis, KNUST, Kumasi-Ghana.
- **Oforu-Bamfo, B.** and Agyapong, Y. O. (2012). In Vitro Biocontrol of *Sclerotium rolfsii* and *Fusarium oxysporum* using *Trichoderma harzianum*. BSc. Dissertation, KNUST, Kumasi-Ghana.

#### Non-science communication

1. **Oforu-Bamfo, B. (October 2020)**. Tips on setting up a new phenology research project. (<https://africanphenologynetwork.online/2020/10/13/tips-on-setting-up-a-new-phenology-research-project/>). Accessed on 16<sup>th</sup> June 2021.
2. **Oforu-Bamfo, B. (September 2020)**. Tagging lianas and vipers. (<https://ofbamlab.wordpress.com/2020/09/21/tagging-lianas-and-vipers/>). Accessed on 16<sup>th</sup> June 2021.
3. **Oforu-Bamfo, B. (April 2020)**. Setting up field plots. (<https://ofbamlab.wordpress.com/2020/04/13/setting-up-field-plots/>). Accessed on 16<sup>th</sup> June 2021.

#### **GRANTS/SCHOLARSHIPS/AWARDS**

1. July 2022 – Solidarity Scholarship Award (2000.00 CHF) to participate in the Transdisciplinary Nature Conservation short course at the University of Lausanne, Switzerland from 12-16 September, 2022.
2. July 2021 – International Foundation for Science (IFS) Grant D-6590-1 to investigate Liana community structure in relation to climatic and edaphic factors across five forest ecosystem types in Ghana. **Funding amount USD 14511**
  - a. Principal Investigator: Bismark Oforu-Bamfo
  - b. Collaborators: Prof. Patrick Addo-Fordjour, Dr. Ebenezer JD Belford, Prof. Hans Verbeeck, Dr. Sruthi Krishna Moorthy Parvathi
3. March 2021 – The Royal Society of Edinburgh COP 26 grant award to the African Phenology Network for International networking and research collaboration ahead of COP26. Funding amount **GBP 10000**
  - a. Collaborators: Dr. Emma Bush (PI, Scotland), Robyn Whytock (Investigator, Scotland), **Bismark Oforu-Bamfo (Investigator, Ghana)**, Herve Memiaghe (Investigator, Gabon), Asenath Adiengo (Investigator, Kenya).
4. August 2020 – IdeaWild Equipment Grant: Binoculars (1), GPS eTrex 10 handheld GPS navigator (1) and diameter tapes (2). Equipment estimated at **USD 400**
5. November 2018 – GNPC Foundation Capacity Development Award (2018 – 2021) towards funding of PhD academic fees. **Funding amount USD 10000**