

Education

PhD in Zoology (2011-2015)

Zoology Department, **University of Cambridge, Cambridge. UNITED KINGDOM**

PhD in Wildlife and Range Management (2004-2012)

Faculty of Renewable Natural Resources, College of Agriculture & Natural Resources
Kwame Nkrumah University of Science and Technology (KNUST), Kumasi. GHANA

MSc (TopMaster) in Ecology and Evolution (2007-2009)

Centre for Ecological and Evolutionary Studies (CEES)
University of Groningen, Groningen. THE NETHERLANDS

Bachelor of Science in Natural Resources Management (Hons) (1999-2003)

With specialization in Wildlife and Range Management.
Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, GHANA.

Employment

2016- present Post-doctoral research fellow. City College of New York, City university of New York

Research Assistant and Graduate Student in University of Cambridge. Department of Zoology. 2011-2015, Cambridge, UNITED KINGDOM

Research Assistant in Naturalis Biodiversity Center, DNA Barcoding Facility, University of Leiden, Leiden, THE NETHERLANDS (2010-2011)

Teaching & Research Assistant in Kwame Nkrumah University of Science and Technology (KNUST). Faculty of Renewable Natural Resources. Department of Wildlife and Range Mgt. 2003 – 2007. GHANA

Teacher (Mathematics, Agricultural and General Science) in Christ International Junior Secondary School. 1997 – 1999. Sunyani. GHANA

Awards, Scholarships & Grants for Scientific Research

Torben Larsen Memorial Tankard Award: 2015. Given by Lepidopterists' Society of Africa (LepSoc) for outstanding contributions to African butterflies research, proud first recipient of the award.

ERC Advanced Grant (EMARES): 2011. A comprehensive PhD research grant. Exploring morphospaces in adaptive radiations to unravel ecological speciation. Granted by European Union Research Committee.

Marco Polo: 2008. Student bursary for a master's research study abroad (Ghana). Granted by the University of Groningen.

Groningen University Fund (GUF): 2008. Student bursary for a masters research study abroad (Finland). Granted by the University of Groningen.

SCCS Travel Grant: 2007. A bursary granted by the Student Conference on Conservation

Science (SCCS) organisers to attend the eighth SCCS meeting in Cambridge, 27-29 March 200

Miriam Rothschild Scholarship: 2007. A bursary to cover the cost of one month internships at the Center for Agro-ecological Research, (CAER) University of Reading, UK.

Study Scholarship: 2007. An educational grant to do a full-time topmasters programme in Ecology and Evolution at the Centre for Ecological and Evolutionary Studies, University of Groningen. Granted by the Faculty of Mathematics and Natural Sciences, University of Groningen. 11-16 December

Earthwatch Award. 2006. A travel and subsistence bursary to participate in a ten days hands-on field practical Earthwatch research project titled 'South African Hidden species; invertebrates conservation'. South Africa. 11-21st November

Equipment Grant: 2006. Supply of three field equipments; a GRS Densimeter, a Pocket Weather Tracker and binoculars with digital camera for graduate research. Granted by IDEA WILD, USA.

African Biodiversity Information Centre (ABIC) scholarship: 2006. A travel and subsistence bursary to undertake a six week curatorial hands-on training at the Entomology section of the Royal Museum for Central Africa in Belgium. 2nd January - 10th February.

Tropical Biology Association (TBA) Postgraduate Scholarship. 2005. A partial grant for an Mphil/PhD in Wildlife and range management research titled 'Developing a rapid biodiversity assessment (RBA) in Ghana; using butterflies (Lepidoptera) as a model' at KNUST, Kumasi, Ghana.

The AFORNET Young Scientist Award. 2005. A research fellowship granted me by African Forest Research Network (AFORNET), a subsidiary of African Academy of Sciences (AAS) in support of a postgraduate research in Bobiri Forest reserve.

The UNESCO MAB Young Scientists Award. 2005. A research fellowship granted me by United Nation Educational, Scientific and Cultural Organisation (UNESCO), under the Man and Biosphere Award Programme in support of a postgraduate research in Bia Biosphere Reserve.

Study Grant: 2005. A grant given by the International Institute for Geo-Information Science and Earth Observation (ITC), the Netherlands to participant in a refresher course. The course themed 'The use of Geo-information as a Tool for Combating Bush Fires in West Africa' 28 November - 9 December. Kumasi, Ghana

Earthwatch Award. 2005. An Earthwatch capacity grant to participate in a two week hands-on field practical research project, jointly initiated by the Nature Conservation Research Centre (NCRC), Earthwatch, Cocoa Research Institute of Ghana (CRIG) and Cadbury Schweppes. Adjeikrom, Ghana. 15th – 29th May

Kwame Nkrumah University of Science & Technology (KNUST) Scholarship Award. 2004. A scholarship to pursue an Mphil/PhD programme in Wildlife Management in the College Agriculture and Natural Resources.

Tropical Biology Association (TBA) & BAT Biodiversity Partnership Scholarship Award. 2004. A full Bursary to participate in an international biodiversity monitoring/assessment field course in Hell's Gate National Park and Teita Discovery Centre, all in Kenya.

Global Environment Facility/World Bank (GEF/WB) Grant. 2003. Grants to support Biodiversity Conservation Components (BCC) under the Natural Resources Management Programme (NRMP) towards the establishment of Globally Significant Biodiversity Areas (GSBAs). *Member of research team and research assistant in-charge of the invertebrates*

(butterfly) inventory.

Small Research Grants for Biodiversity survey: 2002. Granted by Conservation International (CI) – Ghana. Member of research team and research assistant in-charge of the invertebrates (butterfly) inventory.

Student Small Project Grant: 2001. Award winner of undergraduate research grant. Granted by the Centre for Biodiversity Utilization Development (CBUD), KNUST. Ghana.

Research/Field Experience

- 2011-2014** Biodiversity survey of butterflies in Madagascar. Adansibe National Park, Marojejy National Park, Anjozorobe National Park, Mantadia National Park, Ranomafana National Park, Anjanaharibe-Sud Reserve and two private forest reserves. These surveys were part of my field work for my PhD study titled ‘Adaptive Radiation of Mycalesine Butterflies in the old world tropics’.
- 2004-2012** Butterflies biodiversity surveys in Bia National Park and Bobiri Forest reserves. These were part of my PhD research study titled ‘Applied and Theoretical perspectives of Community Dynamics of Fruit-feeding butterflies’
- 2009** Worked on neutral theory and butterfly assemblage in the Africa as my second topmasters research with The Community and Conservation Ecology group (COCON) at University of Groningen. <http://www.rug.nl/fwn/onderzoek/programmas/biologie/cocon/>
- 2008** Worked with the Nymphalidae Systematic Group (NSG) <http://nymphalidae.utu.fi/group.htm> on the phylogeny and biogeography of Charaxinae as my first topmaster project.
- 2006 - 2007** Earthwatch Project on the theme ‘Cocoa Farming and Biodiversity in Ghana’. The research aims to conserve and increase biodiversity on selected farms through the management of sustainable cocoa ecosystem, whiles improving farmers’ incomes through increased productivity and cocoa farm ecotourism. *I am an assistant principal investigator.*
- 2006** Part of an international team of expert scientist that undertook a Rapid Biodiversity Assessment Programme and Environmental Impact Assessment in Atewa Forest Reserve. The programme was organised and facilitated by Conservation International for ALCOA, a bauxite mining company. *I was the scientist in-charge of the butterfly component.*
- 2005** Earthwatch project on the theme ‘Cocoa Farming and Biodiversity in Ghana’ 15th – 28th May 2005. The research aims to conserve and increase biodiversity on selected farms through the management of sustainable cocoa ecosystem, whiles improving farmers’ incomes through increased productivity and cocoa farm ecotourism. *I was an African fellow and volunteer.*
- 2004** Participated in a Rapid Assessment Biodiversity Programme (Faunal Component) in 5 Forest Reserves in Ghana under the Community Forestry Management Project (CFMP). *I was the research assistant in-charge of the invertebrates (butterfly) inventory.*
- 2004** Carried out an international cross-cultural studies with a colleague young biodiversity conservationist from Ireland (Barry O’toole) on the theme ‘*The use of visitors’ perceptions and expectation as tool for improving tourism in Hell’s Gate National Park, Kenya*
- 2003** Involved in faunal biodiversity survey in 24 Globally Significant Biodiversity Areas (GSBAs) in Ghana. *I was the entire project sub coordinator, field team leader, and a research assistant in-charge of the invertebrates (butterfly) inventory.*

- 2003** Member of an interdisciplinary research group of eight fresh graduates that worked on a theme; *Improving Rural Livelihoods Within the Context of Sustainable Development, using Goaso Forest District as the Case Study*. Technically, I was in-charge of data processing and analysis and was the group's spokesman on wildlife/biodiversity conservation & management.
- 2003** Carried out a self-sponsored research titled 'Preliminary Assessment of Fruit-Feeding Butterflies (Nymphalids) Communities in Owabi Wildlife Sanctuary' as a partial fulfilment of my BSc. Degree in Natural Resources Management (NRM); with specialisation in wildlife & range management. *Principal investigator*.
- 2003** Part of a research team that did carry out a faunal biodiversity survey of different farming systems bordering two Reserves; Kakum National Park and Assin-Attandanso Resource Reserve. *I was the research assistant in-charge of the invertebrates (butterfly) inventory*.
- 2002** Carried out a socioeconomic survey on the theme: *Marketing and consumption pattern of some selected indigenous leafy vegetables (ILVs) in Kumasi*. *Principal investigator*.
- 2001** Part of team that received field training in biodiversity estimation techniques, ballistics, range vegetation sampling protocols and forest mensuration at Mole National Park. *I was an undergraduate student trainee*

Scientific talks/presentations

- 2015** Spectacular radiation of Mycalesina butterflies in the old world tropics. **K. Aduse-Poku**. International Biogeography Society 7th biennial conference, January 8th – 12th, University of Bayreuth, GERMANY
- 2014** Unravelling the adaptive radiation of Mycalesines butterflies in the old world tropics; a start with a tree. **K. Aduse-Poku**. 1st Finnish Molecular Ecology and Evolution Symposium, 8-10 Oct Kakskerta, Turku, FINLAND
- 2014** Spectacular radiation of Mycalesine butterflies in the old world tropics; **K. Aduse-Poku**, 7th International Conference on the Biology of Butterflies. University of Turku. August 11-14 FINLAND
- 2012** Unravelling Mycalesine butterflies radiation in the old world tropics; a start with a tree. **K. Aduse-Poku**, Faculty visit. Department of Biology Lund University. Lund. 16-20 May. SWEDEN
- 2011** Mapping morphological traits on *Charaxes* phylogeny. **K. Aduse-Poku**, Morphological integration and modularity Meeting, The Institut Català de Paleontologia Miquel Crusafont (ICP). 06-20 June Sabadell, SPAIN
- 2011** Where and when did the Rajah and Pasha butterflies evolve? **K. Aduse-Poku**, Lepidopteran Society of African and Butterfly Conservation Society of Ghana regional Conference, Cape Coast. 19-24 Nov. GHANA
- 2010** Hubbel's Neutral Theory and fruit-feeding butterflies assemblages in three African forests; does it or does it not suffice? **K. Aduse-Poku**, E. and Etienne R. Faculty visit. Centre of Excellence, Institute of Ecology and Earth Sciences, University of Tartu, Tartu. 10-16 Nov. ESTONIA
- 2009** Empirical evaluation of Neutral Theory of Biodiversity of fruit-feeding butterflies in three forests in Africa. **K. Aduse-Poku**, E. and Etienne R. 16th Benelux Congress of Zoology, 28-30 October 2009, Wageningen, THE NETHERLANDS
- 2009** Out of Africa:- A phylogenetic hypothesis of the genus *Charaxes* (Lepidoptera: Nymphalidae) based on 5 gene regions. **K. Aduse-Poku**, E. Eric Vingerhoedt, J.L. Olsen and N. Wahlberg. XVIth European Congress of Lepidopterology, 25 – 31 May Cluj, ROMANIA

- 2007** Butterfly (Lepidoptera; Papilionoidae-Nymphalidae) assemblage in cocoa ecosystems in Ghana. **K. Aduse-Poku**. 8th Student Conference on conservation science. 27-29th March. Cambridge, UNITED KINGDOM
- 2006** Can the unique biodiversity (Butterflies) of Atewa, a forest fragment in Ghana, save it from miners? – **K. Aduse-Poku**. 1st Third World Academic of Sciences (TWAS) Young Scientist Conference in Africa on “Mentoring Young Scientists for the effective application of science and technology” 13th – 15th Dec. Nairobi -KENYA
- 2003** Preliminary Assessment of Fruit-Feeding Butterflies (Nymphalids) Communities in Owabi Wildlife Sanctuary – W. Oduro and **Aduse-Poku, K.** 23rd Ghana Science Association Biennial Conference, KNUST. Kumasi – GHANA

Theses, Publications and Technical Reports

- 2015** **Aduse-Poku, K.** *PhD thesis*; submitted to the Department of Zoology. University of Cambridge. Cambridge, UK. **Molecular phylogenetics and patterns of diversification in mycalesine butterflies.** Supervised by Prof. Paul M. Brakefield and Prof. Niklas Wahlberg
- 2012** **Aduse-Poku, K.** *PhD thesis*; submitted to the Department of Wildlife and Range Management. Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. **Applied and theoretical perspectives on the community dynamics of fruit-feeding butterflies.** Supervised by Prof. William Oduro
- 2009** **Aduse-Poku, K.** *MSc. thesis*; submitted to the Centre for Ecological and Evolutionary Studies (CEES). University of Groningen, Groningen. Netherlands. **Empirical evaluation of neutral theory in fruit-feeding butterfly communities in three African forests (Lepidoptera: Nymphalidae).** Supervised by Prof. Rampal S. Etienne
- 2009** **Aduse-Poku, K.** *MSc. thesis*; submitted to the Centre for Ecological and Evolutionary Studies (CEES). University of Groningen, Groningen. Netherlands. **When and where did rajah and pasha butterflies come from? A phylogenetic hypothesis of the genus *Charaxes* (Lepidoptera: Nymphalidae) based on 5 gene regions.** Supervised by Prof. Niklas Wahlberg and Prof. Jeanine L. Olsen
- 2003** **Aduse-Poku, K.** *BSc. thesis*; submitted to the Department of Wildlife and Range Management. Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. **Preliminary assessment of fruit-feeding butterflies (Nymphalids) communities in Owabi Wildlife Sanctuary.** Supervised by Prof. William Oduro
- in review** **Aduse-Poku, K.,** Oduro, W., Oppong, S.K., Molleman F. and Etienne R Empirical evaluation of neutral theory in fruit-feeding butterflies in 3 African forest. *Oikos*
- in press** **Aduse-Poku, K.,** Lees, D. C., Brakefield, P. & Wahlberg, N. Molecular phylogeny and higher taxonomy of the widespread Old World butterfly genus *Heteropsis* (Nymphalidae: Satyrinae: Mycalesina). *Systematic entomology*
- 2016** Brattström, O., **Aduse-Poku, K.,** Collins, S. C., T.M. Santo and Brakefield, P. M. Revision of the *Bicyclus sciathis* species-group (Lepidoptera: Nymphalidae) with descriptions of four new species and corrected distributional records. *Systematic entomology* **41**(1): 207-228
- 2015** Brattström, O., **Aduse-Poku, K.,** Collins, S.C. & Brakefield, P.M. Revision of the *Bicyclus ignobilis* species-group (Lepidoptera: Nymphalidae: Satyrinae) with a description of two new species. *Zootaxa* **4018**(1):57-79

- 2015** Aduse-Poku, K., Brattström, O., Kodandaramaiah, U., Lees, D. C., Brakefield, P. & Wahlberg, N. Systematics and historical biogeography of the Old World butterfly subtribe Mycalesina (Lepidoptera: Nymphalidae: Satyrinae). *BMC Evolutionary Biology*. 15:167
- 2012** Safian, S.L., Larsen, T.B., Collins, S.C., Csontos, G., and Aduse-Poku, K. Results of the butterfly and moth inventory in Ghana I. (Lepidoptera: Lycaenidae) *Folia Entomologica Hungarica* **73**; 53-75
- 2012** Aduse-Poku, K., Oduro, W., Oppong, S.K., and Molleman F. Spatial and temporal variation in butterfly biodiversity in a West African forest: lessons for establishing efficient rapid monitoring programmes. *African Journal of Ecology* **50** (3); 326-334
- 2009** Aduse-Poku, K., E. Vingerhoedt and N. Wahlberg. Out-of-Africa again: a phylogenetic hypothesis of the genus *Charaxes* (Lepidoptera: Nymphalidae) based on 5 gene regions. (submitted to) *Molecular Phylogenetics and Evolution*. **53** (2); 463-478
- 2009** Larsen, T.B., Aduse-Poku, K and Safian, S.L The butterflies of Boabeng-Fiema biodiversity in a forest fragment in Ghana (Lepidoptera: Papilionoidea & Hesperidea). *African entomology*, **17**(2); 131-146
- 2008** Adu-Pakoh, D., Oppong S.K., Aduse-Poku K. Influence of Cocoa agro-ecosystem on fruit-feeding (Nymphalidae) butterflies. *Journal of the Ghana Science Association* **10** (2); 145-158
- 2008** Aduse-Poku, K. Development of efficient Rapid Biodiversity Assessment Programme (RAP) in Ghana; using butterfly as a model system. UNESCO Man and Biosphere Young Scientist Award report. http://www.unesco.org/mab/doc/mys/2006/finalRep_ghana.pdf
- 2007** Larsen, T.B., Aduse-Poku, K., Boersma, H., Safian, S and Baker J. Bobiri Butterfly Sancturay in Ghana – Discovering its butterflies (with a checklist of the 930 butterflies of Ghana). *Metamorphosis*. **18** (3); 87-126
- 2007** Aduse-Poku, K and Doku-Marfo, E. A rapid survey of butterflies in the Atewa Range Forest Reserve, Ghana. In: Assessment of the Atewa Range Forest Reserve, Eastern Ghana. E. McCullough, J., L.E. Alonso, P. Naskrecki, H.E. Wright and Y. Osei-Owusu (eds.). *RAP Bulletin of Biological Assessment* **47**; 55-60.
- 2006** Aduse-Poku, K., A. Kusi., A. Odoi-Agyarko., A. Adjei., and S. Abiwu. Faunal biodiversity survey in 24 Globally Significant Biodiversity Areas (GSBAs) in Ghana; Invertebrate (Butterfly) component. Submitted to the *Ministry of Lands and Forestry and Forestry Commission. GHANA*.
- 2005** W. Oduro and Aduse-Poku, K. Preliminary Assessment of Fruit-Feeding Butterflies (Nymphalids) Communities in Owabi Wildlife Sanctuary. *Ghana Journal of Forestry*. **17 & 18**: 9-19
- 2005** Aduse-Poku, K., and F. Parker. Rapid assessment faunal biodiversity in Community Forest Management Project (CFMP) Forest Reserves in Ghana. Invertebrates' (Butterfly) component. Submitted to the Forest Plantation Development Centre. Submitted to *Forestry service division, Forestry commission, GHANA*
- 2004** Aduse-Poku, K. and O'toole, B. The use of visitors' perceptions and expectations as tool for improving tourism in Hell's Gate National Park, Kenya. Submitted to *Tropical Biology Association, Kenya and Cambridge, U.K*
- 2003** Aduse-Poku, K., F. Nyinaku., V.Y. Atiase., R. Awuah., E.O. Mensah., D. Nyantakyi., H.K. Owusu., and B.Agyenim-Boateng. Improving Rural Livelihoods within the context of sustainable development. A case study in Goaso Forest District. *Tropenbos International*. 50pp. Published at <http://www.tropenbos.org/file.php/296/livelihood.pdf>