

Curriculum Vitae

JULIAN LUKE BAYLISS

(PhD, MSc, BSc) F.R.G.S., F.R.E.S.

Conservation Biologist, Ecologist, Zoologist, Lepidopterist, & Explorer

<http://www.julianbayliss.co.uk>

<http://www.youtube.com/watch?v=mni8mSS4KDU>

PERSONAL DETAILS

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Date of birth: 17/10/69

Sex: Male

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EDUCATION

1999 - 2002 PhD The use of GIS, Geostatistics, and multilevel modelling for biodiversity action planning. Oxford Brookes University.

1997 - 1998 MSc Conservation Biology (Distinction) Manchester Metropolitan University.

1990 - 1993 BSc Zoology (Hons) RHBNC College, University of London.

EMPLOYMENT

Date	Employer	Job title and Main responsibilities:
2018	World Bank Group / Government of Malawi	Drafting the Country Environment Assessment (CEA) for the Government of Malawi – Biodiversity, Forestry, and Fisheries chapters
2013 – 2017	Government of Malawi / Global Environment Facility / World Bank Group Malawi	Biodiversity and Protected Areas Specialist Technical Advisor on the Shire River Basin Management Program. Protected area management of 6 Forest Reserves, 2 National Parks, and 1 wetland – implementing the GEF-5 portfolio and improving the management of these protected areas: http://www.worldbank.org/projects/P117617/malawi-shire-river-basin-management-project?lang=en&tab=overview .
2012 - 2015	Fauna & Flora International Mozambique	Mabu Forest Conservation Programme. Programme manager – establishing a Community Based Organisation and Protected Area for nature-based tourism at Mabu forest in northern Mozambique. See: https://www.youtube.com/watch?v=ZTMyDtHZXlc
2010 - 2013	Fauna & Flora International Liberia/Cote d'Ivoire/Guinea	Regional Project Coordinator, West Africa – Mt. Nimba Transboundary Environmental Governance Platform Working towards the establishment of an environmental governance platform and biodiversity database for the Nimba Mountains in light of large multi-national iron ore mining of the area. The Nimba Mountains cross the border of Liberia, Cote D'Ivoire, and Guinea in west Africa. See: http://www.nimbadarwin.org/

2010 – 2012	Conservation Science Research Group: The University of Cambridge Cambridge / Tanzania	Programme Coordinator & Analyst with the Conservation Science Research Group (Department of Zoology) on the Valuing the Arc programme (VtA). The VtA programme has been valuing the ecosystem services of the Eastern Arc Mountains that stretch down the eastern side of Tanzania under 3 different management scenarios over a 25 yr period. The aim is to prove that the natural resources of the EAMs are worth more if they are conserved than if they are exploited. The VtA is the world's leading Ecosystem Service assessment programme funded by the Leverhulme Trust. See: http://eprints.whiterose.ac.uk/79804/1/Arc_Journal_Issue_29_FINAL.pdf
2006 - 2009	Royal Botanic Gardens Kew (RBGKew) & the Mulanje Mountain Conservation Trust (MMCT) - Darwin Initiative Mozambique / Malawi.	Project Coordinator, Monitoring and Managing Biodiversity Loss in South-East Africa's Montane Ecosystems. Main responsibilities include: Planning and delivering a major international conservation project; managing project staff and volunteers; significantly increasing the reputation of MMCT, IIAM, RBGKew, and the Darwin Initiative; influence and public advocacy work in East Africa; advising on new projects and other developments; managing the project budget; fundraising; strengthening and developing partnerships in the region; promoting the project (including producing high quality scientific reports and media work).
2004 – 2006	Wildlife Conservation Society (WCS) - Mulanje Mountain Conservation Trust (MMCT) Malawi	Director of Ecological Monitoring Programme – Working as a consultant for the Wildlife Conservation Society (WCS) and c/o Mulanje Mountain Conservation Trust (MMCT) – World Bank Global Environment Facility (GEF) Trust Fund. Responsible for undertaking baseline biodiversity surveys and establishing an Ecological Monitoring Programme (EMP) on Mount Mulanje, Malawi. Reporting to the WCS Africa Director I worked closely with a Malawian counterpart from MMCT to successfully establish the EMP.
2002 – 2003	Oxford Brookes University Oxford	Post doc Researcher. Spatial Ecology & Landuse Unit (SELU) – Examined the potential of metapopulation modelling and spatial statistics in natural resource management in the UK following on from the results of my PhD.
1998	Funded by FFI Madagascar	Project Coordinator. Management and planning of microchiropteran status and distribution surveys in previously un-surveyed Madagascan rainforest. Supported by Fauna and Flora International (FFI).
1993 – 1996	The Society for Environmental Exploration Tanzania	Project Coordinator. Frontier Tanzania East Usambara Forest Research Programme - Conducting baseline biodiversity assessments of wet forests in Tanzania.
1993	The Society for Environmental Exploration	Science Coordinator Frontier Uganda Game Park Research Programme. Initiation and supervision of science programmes in Uganda.

Uganda

1988 – Project Trust Biology and maths teacher. Project Trust. St. Ansgar's school,
1989 **South Africa** Roodeport/Soweto, S. Africa.

SKILLS

Conservation

- I focus on protected area management of rain forests, mountains, game parks, and wetland ecosystems.
- In particular I aim to improve management of sites and establish new protected areas where necessary.
- I am proficient in many biological skills and possess a good general knowledge of current wildlife and conservation issues.
- My knowledge and skills are supported by a significant amount of conservation fieldwork, especially in Africa.
- I developed and delivered Ecological Monitoring Programmes.
- I have designed and carried out many baseline biodiversity field surveys and biological inventories of protected areas.
- I am proficient in the use of appropriate data analysis and ecological modelling skills.
- I am also involved with Wildlife Crime and was a State Witness in a high profile illegal logging court case in Malawi. See <https://www.lilongwewildlife.org/2017/09/18/lengwe-loggers-appeal-sentences-doubled/>
- I have personally discovered over 20 species new to science, including 3 new species of snake (e.g. *Atheris mabuensis*), 4 new species of chameleons (e.g. *Nadzikambia baylissi*), 2 new species of bats (e.g. *Rhinolophous mabuensis*), 1 new species of frog, 3 new species of freshwater crab, 8 new species of butterflies and 1 new species of Iris flower.
- I am a Lepidopterist. This has been one of my earliest interests from a young age. For example I have discovered 8 new species of butterfly – see: <http://www.barcodinglife.org/views/taxbrowser.php?taxid=187503>
- I discovered the largest continuous tract of mid-altitude rain forest in southern Africa (at Mount Mabu, Mozambique) - See: <http://www.youtube.com/watch?v=mni8mSS4KDU>

Research

- I have extensive research experience covering many aspects of Conservation Biology and Ecology. Over the last 25 years I have undertaken scientific research focusing on single species studies, interactions between species, ecosystem modelling, and the use of advanced technology towards conservation management. Such studies have ranged from pure ecological research to conservation management strategies. I have published over 30 scientific papers - See 'Scientific Papers' section for further details.

Project Management

- I have strong project management, data collection, and integration skills.
- I have over 25 years of conservation project management experience. For example I have developed and successfully delivered conservation projects in Liberia, Cote d'Ivoire, Guinea, Tanzania, Uganda, Madagascar, Malawi, and Mozambique.
- I am experienced in budget management and the necessity to operate within financial constraints. All projects that I have managed have operated within the specified budget.

People Management

- I have gained a significant amount of people management experience from managing staff and participants through the World Bank, Global Environment Facility, USAID, Darwin Initiative awards, Royal Botanic Gardens Kew, Fauna and Flora International, Wildlife

- Conservation Society, and the Society for Environmental Exploration.
- My people management experience includes recruitment, management, assessment and training of conservation staff and volunteers.
- I enjoy working with people and feel that interpersonal and management skills are key strengths of mine.
- I am also a recognised explorer. I discover remote and inaccessible sites of potentially high biodiversity, organise and then lead scientific expeditions to investigate them. See: <https://www.bbc.com/mundo/noticias-45356836>
<https://www.theguardian.com/world/2018/jun/17/mozambique-mount-lico-rainforest-new-species>
<https://dmmclimbing.com/Journal/June-2018/Monte-Licos-rainforest-lost-world>
<https://www.theguardian.com/world/2017/mar/25/journey-mozambique-mabu-forest-julian-bayliss-google-earth>
<http://www.conservation-careers.com/dr-julian-bayliss-real-life-explorer/>

IT

- Advanced knowledge of GIS (QGIS, ArcMAP), GPS, and remote sensing software. Through my PhD I have advanced knowledge of GIS functionality. This gave me considerable experience in GIS ‘predictive’ modelling capability and database creation. I also analyse satellite imagery to create land use databases within a GIS platform.

Communications (including media)

- I possess excellent communication and diplomatic skills and enjoy working with a wide range of people and organisations. Good communication skills are vital for my current job.
- I have a wide range of professional contacts in both governmental and non-governmental organisations.
- I regularly give presentations and deliver training workshops.
- I have organised and facilitated many meetings, workshops and fora.
- I have significant experience of scientific paper and technical report writing (see overleaf for details).
- I have gained a great deal of experience of working with the media in my current job and from previous jobs, and have given numerous interviews on conservation issues – e.g. <http://www.theguardian.com/world/2009/jun/27/mozambique-conservation>
<http://www.theguardian.com/world/2008/feb/20/mozambique-conservation>
- I am a reviewer for the scientific journals *Biological Conservation*, *Agriculture, Ecosystems, and Environment*, and also for the *African Journal of Ecology*.
- I speak English, and basic Swahili and French. I am also learning Welsh.

Fundraising

- I have put together funding bids for a wide range of large and small conservation projects and have been successful in obtaining funding in most cases.
- On behalf of the Government of Malawi I successfully completed the GEF-6 concept proposal and associated documentation for US\$6million linking the management of Malawi’s Protected Area system.
- Examples of successful funding proposals I have written in the past include:
- US AID / US Forestry Services – US\$1 million to extend the FFI Nimba Darwin Initiative project over 4 years
- Rapid Response Facility – \$25,282 to re-habilitate the guard offices of the Office Ivorien Parcs and Reserves for Mt. Nimba (Cote d’Ivoire)
- STEWARD - \$25,200 towards the production of a Collaborative Management Framework for the Nimba Mountains (Liberia, Cote d’Ivoire, Guinea)
- Darwin Initiative - £198,000 – 3 year programme assessing the biological status of northern Mozambique’s high altitude mountains (Mozambique/Malawi)

- Earthwatch - £20,000 plus ongoing project support – Volunteer support to collect the data of the Mulanje Mountain Conservation Trust Ecological Monitoring Programme (Malawi)
- FINNIDA - £50,000 plus 5 yrs support – to undertake biodiversity surveys of the East Usambara mountains (Tanzania)
- Japanese Embassy - £80,000 – Equipment to support the biodiversity surveys of the East Usambara mountains (Tanzania)

AWARDS

- 2015 Visiting Professor of Ecology – Oxford Brookes University, UK
- 2009 Fellow of the Royal Entomological Society (FRES).
- 2009 Fellow of the Royal Geographical Society (FRGS).
- 2009 Associate Research Fellow of the African Butterfly Research Institute (ABRI) – Nairobi.
- 2006 Darwin Initiative Award I5/036 - Monitoring and managing biodiversity loss in south-east Africa's montane ecosystems.
- 1998 FFI Oryx 100% Fund – to undertake biodiversity surveys in Madagascan rainforest.
- 1997 Co-Operative Bank prize for Business and Ecology (Master's thesis).

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SCIENTIFIC PAPERS

Curran, M., Kopp, M., **Bayliss, J.** & J. Fahr (in review) A new species of horseshoe bat (Chiroptera: Rhinolophidae) from Mount Namuli, Mozambique. in review

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Willcock, S., Phillips, O. L., Platts, P. J., Swetnam, R. D., Balmford, A., Burgess, N. D., Ahrends, A., **Bayliss, J.**, Doggart, N., Doody, K., Fanning, E., Green, J. M. H., Hall, J., Howell, K. L., Lovett, J. C., Marchant, R., Marshall, A. R., Mbilinyi, B., Munishi, P. K. T., Owen, N., Topp-Jorgensen, E. J. and Lewis, S. L. (2016), Land cover change and carbon emissions over 100 years in an African biodiversity hotspot. *Glob Change Biol*, 22: 2787–2800. <http://dx.doi:10.1111/gcb.13218>

Taylor P.J., L.R. Richards, **J. Bayliss**, F.P.D. Cotterill (2015). Rediscovery of the Transvaal free-tailed bat *Tadarida ventralis africana* in South Africa, with an additional record of the Malagasy free-tailed bat *T. fulminans* from northern Mozambique. Durban Natural Science Museum. *Novitates* 38: 50-55.

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Branch, W.R., **Bayliss, J.** & Tolley, K.A. (2014) Pygmy chameleons of the Rhampholeon platyceps complex (Squamata: Chamaeleonidae): Description of four new species from isolated ‘sky islands’ of northern Mozambique. *Zootaxa* 3814 (1): 001–036. <http://dx.doi.org/10.11646/zootaxa.3814.1>.

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L T Ellis, S C Aranda, A K Asthana, P Bansal, V Nath, V Sahu, **J Bayliss**, G Asthana, S Srivastava, S Yadav, M Brugués, M J Cano, M V Dulin, E Fudali, E Fuertes, R Gabriel, F Pereira, J A F Silva, S R Gradstein, P Hájková, M Hájek, P Heras, M Infante, M Lebouvier, J Marka, K K Newsham, R Ochyra, J Pantović, M S Sabovljević, N Phephu, J van Rooy, D A Philippov, R D Porley, F Puche, A Schäfer-Verwimp, J G Segarra-Moragues, C Sérgio, V R Smith, S Ștefănuț, J Váňa, M J Wigginton (2014). New national and regional bryophyte records, 37. *Journal of Bryology* 35 (4) pp. 290 – 305. <http://dx.doi.org/10.1179/1743282013Y.0000000064>.

Curran, M., Kopp, M. **Bayliss, J.** & J. Fahr (in review) *Rhinolophus craveni* nov. sp., a new species of horseshoe bat (Chiroptera: Rhinolophidae) from Mozambique. *Acta Chiropterologica*.

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Taylor P., Stoffberg S., Monadjem A., Schoeman M.C., **Bayliss J.**, & Cotterill F.P.D. (2012) Four new bat species (*Rhinolophus hildebrandtii* complex) reflect Plio-Pleistocene divergence of dwarfs and giants across an Afrotropical Archipelago. *PLoS ONE* 7(9): e41744. <http://dx.doi.org/10.1371/journal.pone.0041744>.

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