**Edmund Wakeling Basham**

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**Biosketch**

I am a highly motivated individual with a born passion for conservation and the environment. I enjoy problem solving and as an effective team player I understand the importance of using both individual initiative and collaborative efforts to achieve a common goal. With natural interpersonal skills, I am comfortable relating to individuals from a variety of backgrounds and experience levels. I am adaptable and flexible as I have worked in rural communities and tropical jungles, as well as office environments. Since graduating with a doctorate in Ecology from the University of Florida, I am keen to embrace new opportunities and experiences.

**Education**

2009 – 2011 **A2 Levels, Geology (A\*), Biology (A), Chemistry (B), Saffron Walden County High School Sixth Form**

2011 – 2015 **BSc** & **MEnvSci Masters in Environmental Science**, **University of Sheffield -** First Class Honours

2016 – 2021 **PhD in** **Interdisciplinary Ecology, University of Florida**

**Publications**

Publications under consideration:

* **Basham, E. W**., Baecher, J. A., Klinges, D. H & Scheffers, B. R. (2022). Vertical stratification patterns of tropical forest vertebrates: A meta-analysis. Biological Reviews. (*minor revision*)
* Surveys and Monitoring Working Group of the IUCN SSC Amphibian Specialist Group: Amphibian Conservation Action Plan (ACAP). (*in revision*)

Publications:

* **Basham, E. W**., González-Pinzón, M., Romero, A., Carl, N & Scheffers, B. R. (2022). Large old trees as keystone structures – An arboreal poison frog case study. Oecologia. (*in press*)
* Lembrechts, JJ, Hoogen, J, Aalto, J et al. (403 more authors) (2022). Global maps of soil temperature. Global Change Biology. ISSN 1354-1013
* **Basham, E. W**., Saporito, R., González-Pinzón, M., Romero, A & Scheffers, B. R. (2020). Chemical defenses shift with the seasonal vertical migration of a Panamanian poison frog. Biotropica. 53, 28-37.
* González del Pliego, P., Freckleton, R., Scheffers, B. R., **Basham, E. W**., Moreno-Villena, J., Acosta-Galvis, A. R., Medina Uribe, C. A., Haugaasen, T., Haugaasen, T & Edwards, D. P. (2020). Thermal tolerance and the importance of microhabitats for Andean frogs in the context of land use and climate change. Journal of Animal Ecology, 89, 2451-2460.
* **Basham, E. W**., & Scheffers, B. R. (2020). Vertical stratification collapses under seasonal shifts in climate. The Journal of Biogeography, 47, 1888-1898
* **Basham, E. W**, Seidl, C. M., Andriamahohatra, L. R., Oliveira, B. F., & Scheffers, B. R. (2019). Distance-decay differs among vertical strata in a tropical rainforest. Journal of Animal Ecology, 88, 114–124.
* Seidl, C. M., **Basham, E. W**., Andriamahohatra, L. R., & Scheffers, B. R. (2019). Bird’s nest fern epiphytes facilitate herpetofaunal arboreality and climate refuge in two paleotropic canopies. Oecologia, 192, 297–309.
* **Basham, E. W**., González del Pliego, P., Acosta-Galvis, A. R., Woodcock, P., Medina Uribe, C. A., Haugaasen, T., Gilroy, J. J., & Edwards, D. P. (2016). Quantifying carbon and amphibian co-benefits from secondary forest regeneration in the Tropical Andes. Animal Conservation, 19, 548–560.
* González Del Pliego, P., Scheffers, B. R., **Basham, E. W**., Woodcock, P., Wheeler, C., Gilroy, J. J., Medina Uribe, C. A., Haugaasen, T., Freckleton, R. P., & Edwards, D. P. (2016). Thermally buffered microhabitats recovery in tropical secondary forests following land abandonment. Biological Conservation, 201, 385–395.

**Grants and awards**

* 2021 – University of Florida School of Natural Resources and Environment Teaching Assistantship : $7,800
* 2020 – University of Florida Wildlife Ecology and Conservation Teaching Assistantship : $7,800
* 2019 - The Lewis and Clark Grant Fund : $4,600
* 2017 - The National Socio-Environmental Synthesis Center (SESYNC) functional diversity workshop : $300
* 2016 - The Emerging Challenges in Tropical Science Program (ECTS) of the Organization for Tropical Studies (OTS) research fellowship : $6,230
* 2016 - The Theodore Roosevelt Memorial Grant (The American Museum of Natural History) : $2,500
* 2016 – University of Florida Graduate Assistantship : $88,000
* 2014 - The University of Sheffield Geography Department Research Award: $500

**Research Experience**

May 17 – Present (14 months in country) **Project leader – Amphibian Research**

Esteban Alphonso Lee Reserve, Sierra Llorona, Panama, and La Selva Biological Station, Costa Rica

* Conducted surveys in the canopies of tropical rainforests for amphibians and reptiles
* Hired and managed a team of 5 assistants
* Continue to maintain contact with local Panamanian team to coordinate ongoing projects

Sept 15 – Jan 16 **Research Assistant and Project leader**

Centre Valbio Research Station (Madagascar)

* Conducted surveys in the canopies of tropical rainforests for amphibians and reptiles
* Managed team of 5 in a leadership role
* Installed climate monitoring station to assess local scale climate impacts on species distributions

Jun 14 – Sept 14 **Research Assistant and Project leader**

The University of Sheffield & The Alexander von Humboldt Research Institute (Colombia)

* Undertook the assessment of secondary forests for their capacity to recover amphibian species

Jun 13 – Jul 13 **Turtle Conservation and Community Volunteer**

Akazul Turtle Centre (Guatemala)

Jun 11 – Jul 11 **Turtle Conservation and Community Volunteer**

Yayasan Pulau Banyak (Indonesia)

Apr 10 (2 weeks) **Work Experience – Assistant**

TRAFFIC (The Wildlife Trade Monitoring Network, Cambridge)

**Other Experience**

2007 – Present **Coppice Worker**

**Coppice Designs** - Little Hales Wood, Essex, UK

* Managed a Natural England Nature Reserve to promote the growth of nationally important flora

2015 – 2016 **Tree surgeon**

**Mercer Tree Services** – Little Walden, Essex, UK

* Worked as part of a specialist arborist team, gaining knowledge of arborist practices and safety procedures

2020 **Junior Officer**

**The United Nations Development Program** – The Lions Share Initiative

* Reviewed grant applications and drafted correspondence for the UNDP Lions Share Covid-19 response grant

2020 **Teaching Assistant**

**The University of Florida** – School of Natural Resources and Environment

* Taught and assessed the undergraduate EVR 3000 Environmental Science module

**Presentations**

2021 : Canopy Science Online Conference : “The vertical stratification patterns of tropical forest vertebrates: A meta-analysis

2021 : Ecological Society of America : Poster Session : “The vertical stratification patterns of tropical forest vertebrates”

2021 : European Meeting of Students in Evolutionary Biology : “Chemical defenses shift with the seasonal vertical migration of a Panamanian poison frog”

2020 : Ecological Society of America “Vertical stratification collapses under seasonal shifts in climate” contributed talk

2020 : University of Florida Undergraduate Course “The Ecology of Climate Change” guest lecture

2019 : University of Florida Undergraduate Course “Ecological Responses to Climate Change” guest lecture

2019 : University of Florida, School of Natural Resources Seminar Lecturer

2018 : Brown University guest lecture “Vertical stratification patterns of tropical amphibians”

2017 : University of Florida, Wildlife, Ecology and Conservation poster competition

**Professional Collaborations**

* The University of Sheffield, UK – The Edwards Tropical Ecology Lab
* Brown University, RI, USA– The Kartzinel Genetics Lab
* John Carrol University, OH, USA – The Saporito Toxicology Lab
* Universidad Autónoma de Chiriquí, Panama – The Batista Herpetology Lab
* The Smithsonian Tropical Research Institution (Panama)
* The Organisation for Tropical Studies (Costa Rica)
* Primate Conservation Inc (Rhode Island, US)
* Sociedad Mastozoológica de Panamá – SOMASPA (Panama)
* Instituto de Investigación de Recursos Biológicos Alexander Von Humboldt – Colombia
* IUCN SSC Amphibian Specialist Group
* The United Nations Development Program – The Lions Share Initiative

**Peer Review**

I have reviewed academic articles for internationally ranked scientific journals: Global Ecology and Biogeography, the Journal of Tropical Ecology, the Journal of Applied Ecology, Global Change Biology, and the New Zealand Journal of Ecology.

**Skills**

IT -

* Extensive knowledge of Microsoft Office programs (Word, Excel and PowerPoint), Minitab, Estimates (9.0), and R.

Statistics -

* Solid knowledge of analytical techniques as Principal Component Analysis, Non-metric Multidimensional Scaling, Rarefaction, Bootstrap simulation modelling, and Generalized Linear Mixed Effect Models, among others.

Languages -

* English - Mother tongue
* Spanish – Working proficiency – Four years of in-country experience in Colombia, Guatemala, Costa Rica and Panama

Miscellaneous -

* Florida car and motorcycle license
* PADI diving certification
* Arborist tree access experience (Madagascar, Panama and Costa Rica field seasons)
* Cartographer and fantasy worldbuilder

**References:**

**Dr. Brett Scheffers**

Assistant Professor of Ecology

Department of Wildlife Ecology and Conservation

University of Florida/IFAS Gainesville, FL 32611 USA

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Email: [brett.scheffers@ufl.edu](mailto:brett.scheffers@ufl.edu)

**Penny Stock**

Regional Technical Advisor for Ecosystems and Biodiversity, Africa

United Nations Development Programme

Tel +44 7990 725641

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**Dr. Margaret Lowman**

Executive Director, TREE Foundation

National Geographic Explorer

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