

# TOM FAYLE

## Address

Insect Ecology Group,  
University Museum of Zoology Cambridge  
Downing Street, Cambridge CB2 3EJ

## Date of birth

1<sup>st</sup> June 1981

## Work telephone

01223 331768

## Email

tmf26@cam.ac.uk

## Website

www.tomfayle.com

---

## EDUCATION

### 2005-present PhD

**University of Cambridge, Department of Zoology, Museum Insect Room Group**  
Studying the determinants of ant community composition in Bird's nest ferns (*Asplenium* spp.) in Sabah, Malaysia. Funded by NERC with a CASE studentship from the Natural History Museum, London.

### 2004-2005 MPhil

**University of Cambridge, Department of Zoology, Conservation Biology Group and Museum Insect Room Group**

Research-based master's degree: "The Biodiversity of Abandoned Farmland"

### 2000-2003 BA (Hons) Natural Sciences (Zoology)

**University of Cambridge, Gonville and Caius College**

1<sup>st</sup> (Rank 5/87)

### 1992-1999

**Torquay Boys' Grammar School, Devon**

A levels: 4As

GCSEs: 4A\*s, 3As, 2Bs

## RESEARCH EXPERIENCE

Oct '05-present

**University of Cambridge, Department of Zoology, Museum Insect Room group**

Continuing PhD research on the ant communities of epiphytic ferns. Twelve month's field work in tropical rain forest in Sabah, Malaysia, including tree climbing to heights of 40m. Identification of specimens and analysis of results in Cambridge.

Jun '05-Aug '05

**University of Cambridge, Department of Zoology, Museum Insect Room group**

Helped run a project investigating the costs of nest digging and provisioning in the wasp *Ammophila pubescens* in Surrey, UK. Funded by the Balfour-Browne fund. (Eight weeks)

Apr '04-Apr '05

**University of Cambridge, Department of Zoology, Conservation Biology Group and Museum Insect Room group**

One-year project comparing the species of various taxonomic groups inhabiting 58-year-old abandoned farmland, current arable farmland, 20-year-old set-aside and secondary ancient woodland. Gained experience in the survey methods and identification of various taxa. Funded by the Eranda Foundation.

Aug'02-Mar'04

**University of Cambridge, Department of Zoology, Aquatic Ecology Group**  
**Research Assistant**

Studied the impacts of human activities on freshwater biodiversity (three separate periods). (Four months)

Jun-Jul '03

**Tropical Biology Association Field Course, Kibale Forest, Uganda**

Studied various aspects of tropical ecology and conservation. Carried out a project investigating resting site selection in tropical Lepidoptera (Four weeks)

## PUBLICATIONS

**Fayle T.M.**, Eggleton P. & Foster W.A. (2009). Stable species coexistence maintains diversity in a rainforest ant-epiphyte microcosm. (In review at *Ecology*).

Edwards, D.P., Ansell, F.A., Woodcock, P, **Fayle, T.M.**, Hamer, K.C. (2009) Lack of a host sanction correlates with prolific cheating in an ant-palm symbiosis. (In review at *Oikos*).

**Fayle T.M.** & Manica A. (2009). Improving the assessment of species co-occurrence using the c-score metric. (Invited to resubmit to *Ecology*).

Ellwood M.D.F., **Fayle T.M.**, Bluthgen N. & Foster W.A. (2009). Temporal dynamics of epiphyte dwelling ant communities in a tropical rainforest. (In preparation for submission to *Ecology Letters*).

**Fayle T.M.**, Foster W.A. & Green R. (2009) The potential of abandoned farmland as a habitat for biodiversity conservation in the UK. (In preparation for submission to *Biodiversity and Conservation*).

Dench R., **Fayle T.M.** & Cheyne S. (2009) The Intestinal Parasites of the Bornean Orang-utan (*Pongo pygmaeus*). (In preparation for submission to *Journal of Medical Primatology*).

Savage J., Barton D., Turner E.C., Manica A. & **Fayle T.M.** (2009) The ecology of a newly-established population of ant lions (*Euroleon nostras*) at Wells-next-the-sea, Norfolk, UK. (In preparation for submission to *Journal of Insect Science*).

- Fayle T.M.**, Dumbrell A.J., Eggleton P. & Foster W.A. (In press). Rainforest canopy architecture differentially affects the distribution of two species of epiphytic fern (*Asplenium* spp.). *Biotropica*.
- Fayle T.M.**, Ellwood M.D.F., Turner E.C., Snaddon J.L., Yusah K.M. & Foster W.A. (2008). Bird's nest ferns: islands of biodiversity in the rainforest canopy. *Antenna*, 32(1), 34-37.
- Turner E.C., Snaddon J.L., **Fayle T.M.** & Foster W.A. (2008). Oil Palm Research in Context: Identifying the Need for Biodiversity Assessment. *PLoS ONE*, 3, e1572.
- Fayle T.M.** (2008). Book Review of *Ants of North America: A Guide to the Genera* by Brian Fisher & Stefan Cover. *Zoological Journal of the Linnean Society*, 152, 847.
- Disney R.H.L. & **Fayle T.M.** (2008). A New Species of Scuttle Fly (Diptera: Phoridae) Parasitizing an Ant (Hymenoptera: Formicidae) in Borneo. *Sociobiology*, 51, 327-332.
- Field J., Turner E., **Fayle T.M.** & Foster W.A. (2007). Costs of egg-laying and offspring provisioning: multifaceted parental investment in a digger wasp. *Proceedings of the Royal Society B*, 274, 445-451.
- Fayle T.M.**, Sharp R.E. & Majerus M.E.N. (2007). The effect of moth trap type on size and composition in British Lepidoptera. *British Journal of Entomology and Natural History*, 20, 221-232.
- Aldridge D.C., **Fayle T.M.** & Jackson N. (2007). Freshwater mussel abundance predicts biodiversity in UK lowland rivers. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 17, 554-564.

## SCHOLARSHIPS AND PRIZES

Received the **Swann Prize** for Biology. Received the **Legg Scholarship** in 2005 and 2006 (2x£500). Elected a **Senior Scholar** and a **College Scholar**. Participation in TBA course (see above) funded by a **British Ecological Society Scholarship** (£240) and a **Panton Trust Grant** (£1000). **Prizes for student talks** at the Royal Entomological Society conference (1<sup>st</sup>-2008, £100, 2<sup>nd</sup>-2006, £50) and the International Union for the Study of Social Insects conference (1<sup>st</sup>-2008). Awarded **Roberts Skills Training Funds** to attend conference in Washington DC. (£840). Awarded **Weis-Fogh Funds** (£1000) to carry out a taxonomic review of the SE Asian ant genus *Dilobocondyla*.

## OUTREACH AND COMMUNICATION

Have presented my work at international conferences in Washington D.C. (USA), Kuching and Kota Kinabalu (Malaysia) and Durban (South Africa). Have also presented as an invited speaker at the University of Plymouth and the University of Bristol, UK. Act as scientific adviser for a company providing canopy access training and services for scientists, film makers and tourists. Helped organise a stand at the Royal Society Summer exhibition 2007 and a "Forest" exhibition at the University Museum of Zoology, Cambridge. Interviews with the BBC and Malaysian national television.

## TEACHING AND ORGANISATION

Taught on five residential undergraduate field courses in various parts of the UK. Supervised over 20 undergraduate student projects. Demonstrated in third-year undergraduate statistics computing practicals and first year Evolution and Behaviour practicals. Organised lab meetings for the Conservation Biology Group from April 2004 until April 2005, including presenting papers and arranging talks. Helped run the Student Conference on Conservation Science in 2004 and 2005. Assistant course organiser for second year undergraduate module "Ecology". Duties included assigning of projects and supervisors to students, and organisation of student project talks. Will teach on an Operation Wallacea course in Sulawesi, Indonesia in June/July 2009 (8 weeks).

## AFFILIATIONS

Fellow of the Royal Geographical Society. Graduate Fellow of the Cambridge Philosophical Society. Member of the British Ecological Society. Member of the British Entomological and Natural History Society. Member of the Royal Entomological Society. Member of the Wildlife Trusts. Member of the Wicken Fen bird ringing group. Hold a trainee ringing permit.

## INTERESTS

- Adventure racing** Completed the 2007 Original Mountain Marathon (B category) and competed in the event in 2008 (second day called off due to bad weather). Also completed the ultra-distance (40 mile) Tring to Town race (2008) and the Atlantic Coast Challenge 2008 (three marathons in three days along the Cornish coastal path). Regular marathons and half marathons.
- Photography** Particularly interested in wildlife photography. Have entered various photography competitions and had work exhibited. Photography featured on front covers of *Science*, *TREE* and *Biology 2 for OCR*. Photographs in semi-finals of BBC Wildlife Photographer of the Year 2007.