

# TOM FAYLE

## Address

Laboratory of Tropical Ecology,  
University of South Bohemia, Branišovská 31,  
370 05 České Budějovice, Czech Republic

## Date of birth

1<sup>st</sup> June 1981

## Telephone

+44 7816 092365

## Email

t.fayle@imperial.ac.uk

## Website

www.tomfayle.com

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## EDUCATION

- 2005-2009 **PhD**  
Insect Ecology Group, University Museum of Zoology, University of Cambridge, UK
- 2004-2005 **MPhil**  
Conservation Biology Group, Department of Zoology, University of Cambridge, UK
- 2000-2003 **MA (Hons) Natural Sciences (Zoology)**  
Gonville and Caius College, University of Cambridge, UK 1<sup>st</sup> (Rank 5/87)

## RESEARCH ACTIVITY

- Oct '11-present **University of South Bohemia, Czech Republic** *Laboratory of Tropical Ecology*  
Postdoctoral researcher in tropical ecology. Conducting analyses of plant-insect interaction networks and setting up experimental manipulations of tropical ecosystems in Papua New Guinea.
- Jan '10-present **Imperial College London, UK** *Forest Ecology and Conservation Group*  
Postdoctoral research associate (part-time) for the SAFE project investigating the effects of forest fragmentation on ant communities and the ecosystem processes that they mediate within the framework of a unique large-scale habitat fragmentation project in the field in Borneo. Also advising on initial project design and field techniques. Funded through the Royal Society South East Asia Rainforest Research Programme.
- Apr '10-Mar '11 **Natural History Museum, London, UK** *Soil Biodiversity Group, Entomology Department*  
Quantifying ant-termite food webs in African tropical rain forests by extracting and sequencing termite COII sequences from ant guts. Postdoctoral research assistant supported by NERC small project grant.
- Oct '05-Jun '09 **University of Cambridge, UK** *Insect Ecology Group, Univ. Museum of Zoology*  
PhD research investigating community assembly rules for ants inhabiting epiphytic ferns using a range of approaches including field collections, laboratory-based invasion experiments and construction of simulation-based models. Twelve month's field work in tropical rain forest in Sabah, Malaysia, including tree climbing to heights of 40m. Gained expertise in SE Asian ant taxonomy. Funded by NERC with a CASE studentship.
- Jun '05-Aug '05 **University College London, UK** *Department of Biology*  
Ran a field project investigating the costs of nest digging and provisioning in the wasp *Ammophila pubescens* in Surrey, UK. Funded by the Balfour-Browne fund.
- Apr '04-Apr '05 **University of Cambridge, UK** *Conservation Science Group, Department of Zoology*  
One-year MPhil project investigating the conservation value of abandoned arable farmland. Gained experience in the survey methods and identification of various taxa. Funded by the Eranda Foundation.
- Aug'02-Mar'04 **University of Cambridge, UK** *Aquatic Ecology Group, Department of Zoology*  
Research assistant position. Studied the impacts of human activities on freshwater biodiversity.

## SELECTED PUBLICATIONS

- Fayle T.M.**, Eggleton P. & Foster W.A. (In preparation) Ant community assembly in epiphytic ferns is controlled by body size not phylogeny
- Snaddon J.L., Turner E.C., **Fayle T.M.**, Chey V.K., Eggleton P.E., Foster W.A. (In press). Biodiversity hanging by a thread: the importance of fungal-litter trapping systems in tropical rainforest. *Biology Letters*
- Fayle T.M.**, Edwards D.P., Turner, E.C., Dumbrell A.J., Eggleton P. & Foster W.A. (In press). Public goods, public services, and by-product mutualism in an ant-fern symbiosis. *Oikos*
- Yusah K.M., **Fayle T.M.**, Harris G. & Foster W.A. (In press). Optimising diversity assessment protocols for high canopy ants in tropical rain forest. *Biotropica*
- Fayle T.M.** & Manica A. (2011). Bias in null model analyses of species co-occurrence: a response to Gotelli and Ulrich (2011) *Ecological Modelling* 222: 1340-1341.

- Foster W.A., Snaddon J.L., Turner E.C., **Fayle T.M.**, Cockerill T.D., Ellwood M.D.F., Broad G.R., Chung A.Y.C., Eggleton E., Chey V.K., Yusah K.M. (2011). Establishing the evidence base for maintaining biodiversity and ecosystem function in the oil palm landscapes of South East Asia. *Philosophical Transactions of the Royal Society B* 366: 3277-3291
- Fayle T.M.**, Dumbrell A.J., Turner E.C & Foster W.A. (2011) Distributional patterns of epiphytic ferns are explained by the presence of cryptic species. *Biotropica* 43: 6-7.
- Fayle T.M.** & 27 co-authors (2011). A positive relationship between ant biodiversity (Hymenoptera: Formicidae) and rate of scavenger-mediated nutrient redistribution along a disturbance gradient in a south-east Asian rain forest. *Myrmecological News* 14: 5-12.
- Woodcock P., Edwards D.P., **Fayle T.M.**, Newton R.J., Chey V.K., Bottrell S.H. & Hamer K.C. (2011) The conservation value of Southeast Asia's highly degraded forests: evidence from leaf-litter ants. *Philosophical Transactions of the Royal Society B* 366: 3256-3264.
- Fayle T.M.** & Manica A. (2010). Reducing over-reporting of deterministic co-occurrence patterns in biotic communities. *Ecological Modelling* 221: 2237-2242.
- Fayle T.M.** (2010) Go to the ant thou sluggard... *Trends in Ecology and Evolution* 25: 431-432.
- Fayle T.M.**, Turner E.C., Snaddon J.L., Chey V.K., Chung A.Y., Eggleton P.E. & Foster W.A. (2010). Oil palm expansion into rain forest greatly reduces ant biodiversity in canopy, epiphytes and leaf litter. *Basic and Applied Ecology* 11: 337-345.
- Edwards D.P., Ansell F.A., Woodcock P, **Fayle T.M.**, Chey V.K. & Hamer K.C. (2010) Can the failure to punish promote cheating in mutualism? *Oikos* 119: 45-52.
- Fayle T.M.**, Chung A.Y.C., Dumbrell A.J., Eggleton P. & Foster W.A. (2009). The Effect of Rain Forest Canopy Architecture on the Distribution of Epiphytic Ferns (*Asplenium* spp.) in Sabah, Malaysia. *Biotropica* 41: 676-681.
- 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.
- 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.
- Reviewed manuscripts for: *Basic and Applied Ecology*, *Biological Conservation*, *Insect Diversity and Conservation*, *Ecological Entomology*, *Landscape Ecology*, *Oikos*, *Bulletin of Insectology*, *Natural Areas Journal*, *Journal of Insect Science*, *PLoS ONE*.

## SELECTED PRIZES AND SCHOLARSHIPS

- **Varley Gradwell Travelling Fellowship in Insect Ecology 2011** from the University of Oxford
- **Thomas Henry Huxley Award and Marsh Prize 2009** from the Zoological Society of London for "the best zoological doctoral thesis produced in Great Britain or Northern Ireland".
- **Alfred Russell Wallace Award 2008/9** from the Royal Entomological Society "for postgraduate research leading to a PhD degree awarded by a UK university and judged to make the most significant contribution to entomology in the year".
- **Student Talk Prizes** from the Royal Entomological Society (1<sup>st</sup> 2008, 2<sup>nd</sup> 2006) and the International Union for the Study of Social Insects (1<sup>st</sup> 2008).

## OUTREACH AND COMMUNICATION

Presented work at international conferences in Washington D.C. (USA), Kuching and Kota Kinabalu (Malaysia), Bali (Indonesia) and Durban (South Africa). Have also presented as an invited speaker at the University of Plymouth, University of Bristol and Imperial College London, UK. Act as scientific adviser for Canopy Access Ltd. and the publishers Dorling Kindersley. Helped run a stand at the Royal Society Summer Exhibition and a "Forest" exhibition at the University Museum of Zoology, Cambridge. Interviews with the BBC online, BBC Radio 6 and Malaysian national television. Photography featured on front covers of *Science*, *TREE*, *Biotropica* and *Biology 2 for OCR* (an A-level text book).