

# Felix K.S. Lim

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## Tropical Plant Ecology and Conservation

- Research interests and experience include quantitative and applied ecology, tropical forest ecology and biodiversity conservation, land-use change, plant ecology, plant functional traits, species distribution and responses to environmental gradients.
- Experience in statistical modelling and data analyses, as well as work in the field, laboratory and herbarium.

## Education

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University of Sheffield, United Kingdom

**PhD Department of Animal and Plant Science** 2015 – present

- Dissertation Title: “Sustainably expanding tropical agriculture: preventing perverse market outcomes from high-yielding crops”

University of Melbourne, Australia

**Master of Science in Botany** 2011 – 2012

- Dissertation Title: “The role of functional traits in the distribution of woody plant species around frost hollows in the Bogong High Plains, Australia”

**Bachelor of Science in Ecology and Evolutionary Biology** 2008 – 2010

## Research Experience

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Department of Animal and Plant Sciences, University of Sheffield, UK

**PhD candidate**, Edwards Lab, September 2015 to present

Department of Biological Sciences, National University of Singapore

**Research Assistant**, Carrasco BioEconomics Lab, August 2014 to September 2015

Full-time research assistant on multiple research projects involving data analyses and statistical modelling. Projects include examining spatial and temporal distribution of fires on forests in Southeast Asia in relation to land-use change, improving agricultural practices within oil palm plantations, global spatial analyses of healthcare cost-effectiveness.

**Research Assistant**, Chisholm Lab (Theoretical Ecology and Modelling), August 2013 to July 2014

Full-time research assistant on project “Tropical Forest Dynamics and Global Change”. Examined effect of fragmented habitat loss on species extinction. Research involved running computer simulations and data analyses, using both theoretical concepts and testing predictions on empirical data. Also involved in assisting other researchers in the group with data collection and analyses. Increased experience with field studies and statistical modelling and data analyses.

School of Botany, University of Melbourne

**Masters Research Student**, Quantitative and Applied Ecology Research Group, 2011 to 2012

Research on turnover of plant species along fine-scale environmental gradients. Examined the role of plant functional traits in distribution of woody shrubs along slopes that lead into frost hollows in alpine and

subalpine areas of south-east Australia. Studied plant trait variation between and within species. Research involved field work, working in the laboratory, microscopy work and statistical modelling.

Singapore Herbarium, Singapore Botanical Gardens, National Parks Board

**Intern**, January 2011 to March 2011

Involved in management of data and herbarium records, and collection of specimens within Singapore for herbarium records.

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## Teaching Experience

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Graduate teaching assistant, Department of Animal and Plant Sciences, University of Sheffield 2015 – 2019.

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## Grants and Scholarships

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**Grantham Centre for Sustainable Futures**, University of Sheffield 2015 – 2019

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## Publications

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Chisholm, R.A., **Lim, F.K.S.**, Yeoh, Y.S., Seah, W.W., Condit, R., & Rosindell, J. (2018). Species-area relationships and biodiversity loss in fragmented landscapes. *Ecology Letters*.

**Lim, F.K.S.**, Carrasco, L.R., McHardy, J. and Edwards, D.P. (2017). Perverse market outcomes from biodiversity conservation interventions. *Conservation Letters*, 10(5).

**Lim, F.K.S.**, Pollock, L., & Vesik, P. (2017). The role of plant functional traits in shrub distribution around alpine frost hollows. *Journal of Vegetation Science*, 28(3).

Jain, A., **Lim, F.K.S.** & Webb., E.L. (2017). Species-habitat relationships and ecological correlates of butterfly abundance in a transformed tropical landscape. *Biotropica*, 49(3).

Edwards, D.P., **Lim, F.K.S.**, James, R.H., Pearce, C.H., Scholes, J., Freckleton, R.P. and Beerling, D.J. (2017). Climate change mitigation: potential benefits and pitfalls of enhanced rock weathering in tropical agriculture. *Biology Letters*, 13(4).

Soliman, T., **Lim, F.K.S.**, Lee, J.S.H. & Carrasco, L. R. (2016). Closing oil palm yield gaps among Indonesian smallholders through industry schemes, pruning, weeding and improved seeds. *Royal Society Open Science* 3:160292.

Nghiem, L. T. P., Papworth, S. K., **Lim., F. K. S.** & Carrasco, L. R. (2016) Analysis of the capacity of Google Trends to measure interest in conservation topics and the role of online news. *PloS one*, 11(3), e0152802.

Chang, J., Symes, W. S., **Lim, F.**, & Carrasco, L. R. (2016). International trade causes large net economic losses in tropical countries via the destruction of ecosystem services. *Ambio*, 1-11.

Saw, L. E., **Lim, F. K.**, & Carrasco, L. R. (2015). The Relationship between Natural Park Usage and Happiness Does Not Hold in a Tropical City-State. *PloS one*, 10(7), e0133781.

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## Presentations

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Society of Conservation Biology (Asia) Conference 2014

Oral presentation, "The effects of habitat fragmented loss on species-area relationships"

Association of Tropical Biodiversity and Conservation Conference, 2014

Oral Presentation, "Fragmented habitat loss affects species-area relationships"

Ecological Society of Australia Annual Conference, 2012

Poster Presentation, "Using functional traits to explain distribution of woody plant species around frost hollows"

## Computer Literacy

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R Statistical Software, 2011 to present  
ImageJ, 2012  
ArcMap, currently learning

## Languages

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English, Mandarin

## Other skills and experiences

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Experience with using microtomes and preparing microscope samples of woody stems  
Fieldwork including plant surveys and collections in temperate and tropical landscapes.  
International drivers licence from Singapore (Class 3)

## Academic Referees

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Dr David Edwards (david.edwards@sheffield.ac.uk)

Department of Animal and Plant Sciences, University of Sheffield, United Kingdom

Assistant Professor Roman Carrasco (dbsctrl@nus.edu.sg)

Department of Biological Sciences, National University of Singapore

Assistant Professor Ryan Chisholm (chisholm@nus.edu.sg)

Department of Biological Sciences, National University of Singapore

Associate Professor Peter Vesk (pvesk@unimelb.edu.au)

School of BioSciences, University of Melbourne

Dr Laura Pollock (lajosy@gmail.com)

Univ. Grenoble Alpes, Laboratoire d'Écologie Alpine (LECA), F-38000 Grenoble, France