Junying Lim

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Education

University of California, Berkeley

2013 - Current: PhD student, Department of Integrative Biology (Advisors: Prof. Charles Marshall & Prof. Rosemary Gillespie)

Imperial College London

2012 - 2013: Masters of Research (MRes) in Biodiversity Informatics and Genomics (*Distinction*)
Thesis: Ecology rather than evolutionary relatedness predicts species invasiveness in the British flora (Supervisors: Prof. Vincent Savolainen, Prof. Mick Crawley FRS)

2009 - 2012: Bachelor of Science (BSc) in Zoology (*1st Class Hons.*)
Thesis: Spatial scale and the community phylogenetic patterns of Silwood Park plant and invertebrate communities (Supervisors: Prof. Andy Purvis, Dr. Will Pearse)

Awards, Scholarships, Grants

2014: Margaret C. Walker Grant for Systematic Entomology
Integrative Biology Summer Research Grant, University of California, Berkeley

2013: Training and Travel Grant, British Ecological Society
James Mill Pierce Fellowship, Harvard University (not taken up)
Silwood Colours Award, Silwood Park Students' Union

2012: Imperial College London, Department of Life Sciences
Convener's Prize (Population and Community Ecology): Awarded to top student of course
Convener's Prize (Conservation and Biodiversity Field Course)
Governor's Prize for Biology: Awarded to student with greatest overall merit
Masters Student Bursary
Rector's Scholarship Fund Scholarship

2006: Hongkong Shanghai Banking Corporation (HSBC) / National Youth Achievement Award - Youth Environmental Award

Publications

- Marshall, C.R., **Lim, J.Y.** & Quental, T. (in prep) The effect of island ontogeny on macroevolutionary dynamics: A case study using the Hawaiian archipelago

- **Lim, J.Y.**, Mittelach, G. & Fine, P.V.A (submitted; *Glob. Ecol. Biog.*) The latitudinal gradient in the impact of herbivores on plant fitness
- **Lim, J.Y.**, Pearse, W. Luckett, K., Suttle, K.B. & Purvis, A. (in revision; *Oikos*) Spatial scale and the community phylogenetic patterns of Silwood Park plant and invertebrate communities
- Rominger, A.J.*, Goodman, K.R.*, **Lim, J.Y.***, Valdovinos, F.S.*, Armstrong, E., Bennett, G.M., Brewer, M.S., Cotoras, D.D., Ewing, C.P., Harte, J., Martinez, N., O'Grady, P., Percy, D., Price, D., Roderick, G.K., Shaw, K., Gruner, D.S. & Gillespie, R.G. (resubmitted; *Glob. Ecol. Biog.*) Community assembly on isolated islands: Macroecology meets evolution.
- **Lim, J.**, Crawley, M.J., De Vere, N., Rich, T. & Savolainen, V. (2014) A phylogenetic analysis of the British flora sheds light on the evolutionary and ecological factors driving plant invasions, *Ecology and Evolution*, [PDF].

* = Equal contribution

Teaching

Graduate Student Instructior, Integrative Biology, UC Berkeley, 2014
Origins: From the Big Bang to the Emergence of Humans (C13)

Teaching assistant, Imperial College London, 2012
Plant sampling techniques and community assembly processes, *Ecology and Evolution Field Course, BSc Biology*

Tutor, National Junior College, 2008 - 2009
Taught a wide range of topics including basic molecular and cell biology, ecology, biochemistry and systematics

Research experience

2013 **Graduate student researcher**, CalBug Project
Essig Museum of Entomology, UC Berkeley
Developing programs to reconcile and implementing quality control on crowd-source transcriptions from Calbug (http://calbug.berkeley.edu/), as part of the Notes from Nature project (www.notesfromnature.org)
Developing novel programs for reconciling crowd-sourced transcriptions
Building programming pipelines for quality control and assurance of crowd-sourced data into Essig museum's databases

2011 **Research assistant**, Coleoptera phylogenetics and systematics
Natural History Museum, London
12-week research assistantship working with Prof. Alfried Vogler & Dr. Martijn Timmermans
Responsible for the handling, annotation, editing, sequence alignment and phylogenetic inference of large mitochondrial genome sequence datasets

2011 **Research assistant**, Behavioural ecology
Imperial College London
Research assistantship with Dr. Hannah Peck and Dr. Alex Lord
Helped analyze video-capture data on native species behaviour at bird feeders in the presence of invasive parakeets

2010 **Research assistant**, Tropical field biology

Operation Wallaceae, Buton Island, Indonesia
4-week research assistantship with various researchers in the tropical and montane forests of Pulau Buton, Sulawesi, Indonesia
Involved in bat ecological surveys (e.g., harp trapping), bird censuses (e.g., point transects) and fig wasps surveys

Skills

- Extensive knowledge of the R environment and its use in phylogenetic and statistical analyses.
- Experienced with various methods of phylogenetic inference and date estimation.
- Self-taught programming in Python (completed an online edX course by MITx)
- Proficient in the management of relational databases such as mySQL
- Experience in molecular biology and sequencing techniques (e.g., cycle sequencing, PCR, DNA extraction)
- Trained in GIS and its use in software such as ArcGIS, but also in R
- Trained in programming in C.
- Experienced with various plant, invertebrate, bird, bat sampling and survey techniques (e.g., plant survey techniques, point transects, mist trapping, harp trapping)

Membership of Professional Bodies

Ecological Society of America, Member
International Biogeography Society, Member
British Ecological Society, Member
Sigma-Xi, Member

Conferences

Oral Presentations

2013	*Calbug: Digitizing California's arthopod collection - Reconciling crowd-sourced transcriptions*, iDigBio CITSCribe Hackathon, Gainsville, Florida
	Spatial scale and community phylogenetic patterns of Silwood plant and ground invertebrate communities, INTECOL, British Ecological Society, London
2009	*Climate change and the Icelandic glaciers, and other personal experiences*, Invited keynote speaker, HSBC / NYAA Youth Environmental Award Prize Ceremony
2005	*The importance of tropical forests*, Invited keynote speaker, Nanyang Girls School, Singapore

Posters

2014	*Evolutionary relatedness does not predict species invasiveness in the British flora*, ESA 2014, Sacramento, California
2013	*How does spatial scale affect community phylogenetic patterns?*, INTECOL, British Ecological Society, London

Workshops

2014	Hierarchical Bayesian Modelling, ESA 2014
2013	iDigBio CITSCribe Hackathon, Gainsville, Florida

2012	GIS in R, University of Sheffield C for Science, Silwood Park The R Course, Silwood Park

Public Outreach

2014	*Cal Day: Fun with fossils*, UC Berkeley