

# Jing-Yi Lu

University of Chicago

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## EDUCATION

2018 – 2025 Ph.D. in Evolutionary Biology, **University of Chicago**, U.S.

Advisor: Dr Richard H. Ree

2018 – 2022 M.Sc. in Evolutionary Biology, **University of Chicago**, U.S.

2013 – 2018 B.Sc. in Life Science, **National Taiwan University**, Taiwan.

2016 – 2017 Exchange student, **University of Melbourne**, Australia.

## GRANTS, SCHOLARSHIPS & AWARDS

2022-23 Armour Graduate Fellowship, Field Museum, Chicago, U.S.

2022 Negaunee fieldwork fund, Field Museum, Chicago, U.S. (P.I.: R.H. Ree).

2021 Fund for Research in Pritzker Lab (Field Museum), Committee on Evolutionary Biology, University of Chicago

2021 Henry Hinds Fund for Graduate Student Research in Evolutionary Biology, Committee on Evolutionary Biology, University of Chicago

2021 Nellie D. Sleeth Scholarships, The Gesneriad Society

2020 Negaunee fieldwork fund, Field Museum, Chicago, U.S. (P.I.: R.H. Ree).

2019 Summer Travel Fund, Committee on Evolutionary Biology, University of Chicago

2018 Oral Presentation Award, Congress of Animal Behavior and Ecology, Hsinchu, Taiwan.

2017 College Student Research Creativity Award, Ministry of Science and Technology, Taiwan.

2017 Outstanding Student Award, XIX International Botanical Congress, Shenzhen, China.

2017 The Dean Award, College of Life Science, National Taiwan University, Taiwan.

2016 Scholarship of Overseas Education, College of Life Science, NTU, Taiwan.

2016 – 2017 Grant for Undergraduate Research (No. MOST 105-2815-C-002-099-B)

Undergraduate Research Program, Ministry of Science and Technology, Taiwan.

2016 Undergraduate Travel Award, Society of Molecular Biology and Evolution Conference (SMBE2016), Gold Coast, Australia.

2016 Mr. Cheng, Yu-Bin Memorial Scholarship (for research in plant systematics and phylogenetics), College of Life Sciences, NTU, Taiwan.

## RESEARCH ARTICLES

### In Press

1. C-C Yu\*, Z-Q Mo\*, **J-Y Lu**, J-J Hu, J-B Yang, S-F Li, L-B Jia. In Press. Revisiting the Molecular Circumscription of Sladeniaceae *sensu lato* (Ericales): Insights from Phylogenetic Discordance. *Am. J. Bot.*

### Published

1. K-S Chen\*, **J-Y Lu**\*, C-N Wang. 2019. Effective pollination of *Aeschynanthus acuminatus* (Gesneriaceae) by generalist passerines, in sunbird-absent East Asia. *Sci. Rep.* 9, 17552. doi:10.1038/s41598-019-53035-2.
2. K-T Hsin\*, **J-Y Lu**\*, M Möller, C-N Wang. 2019. Gene duplication and relaxation from selective constraints of *GCYC* genes correlated with various floral symmetry patterns in Asiatic Gesneriaceae tribe Trichosporeae. *PloS one* 14(1), e0210054-e0210054.
3. H-J Hsu, C-W He, W-H Kuo, K-T Hsin, **J-Y Lu**, Z-J Pan, C-N Wang. 2018. Genetic analysis of floral symmetry transition in African violet suggest involvement of trans-acting factor for *CYCLOIDEA* expression shifts. *Front. Plant Sci.* 9:1008. doi: 10.3389/fpls.2018.01008.

### In Review

1. **J-Y Lu**, YW Xing, H T Luu, RH Ree. In Review. Testing macroevolutionary predictions of the Grant-Stebbins model in the origin of *Aeschynanthus acuminatus*.

### In Preparation

1. Q Li, KN Hu, J Wang, R Fuller, **J-Y Lu**, H Wang, JQ Liu, RH Ree, XJ Kou. Submitted. Genome-wide signatures and ecological strategies show the adaptation of an alpine *Rhododendron* along elevation.
2. **J-Y Lu**, S-J Ling, M-X Ren, RH Ree. In Prep. Floral traits limit pollinator assemblages and determine the visiting behavior of nectar specialist passerines.
3. **J-Y Lu**, YW Xing, H T Luu, M-X Ren, S-J Ling, RH Ree. In Prep. Pollinator-driven divergence and speciation in three *Aeschynanthus* species.
4. **J-Y Lu**, H T Luu, RH Ree. In Prep. Mixed vertebrate pollination system of *Aeschynanthus acuminatus*.

\*Co-first authors: contribute equally to this research.

## GENERAL ARTICLE

1. **J-Y Lu**. 2021. Scientists discover a rare mixed pollinator system in Asia. *In the Field (Field Museum Member Magazine): In the Field Exclusive* 14.

## CONFERENCE PRESENTATIONS

1. **J-Y Lu**, YW Xing, H T Luu, M-X Ren, S-J Ling, RH Ree. Oral Presentation: Pollinator-driven divergence and speciation in three *Aeschynanthus* species. Botany 2025 (26-30 July, Palm Springs, CA, US).
2. **J-Y Lu**, YW Xing, H T Luu, M-X Ren, S-J Ling, RH Ree. Oral Presentation: Pollinator shifts, floral evolution, and geographic range evolution in the genetic divergence of three *Aeschynanthus* species. XX IBC International Botanical Congress (21-27 July 2024, Madrid, Spain).
3. **J-Y Lu**, YW Xing, H T Luu, M-X Ren, S-J Ling, RH Ree. Poster Presentation: Pollinator shifts, floral evolution, and geographic range evolution in the genetic divergence of three *Aeschynanthus* species. Chicago Plant Science Symposium 2024 (20 April 2024, Glencoe, IL, US).
4. **J-Y Lu**, YW Xing, HT Luu, RH Ree. 2023. Oral Presentation: Pollinator shifts and geographic range evolution in the origin of *Aeschynanthus acuminatus* (Gesneriaceae). Botany 2023 (22-26 July, Boise, ID, US).
5. **J-Y Lu**, S-J Ling, M-X Ren, RH Ree. 2022. Oral Presentation: Floral traits limit pollinator assemblages and determine the visiting behavior of nectar specialist passerines. Botany 2022 (24-27 July, Anchorage, AK, US).
6. **J-Y Lu\***, K-S Chen,\* C-N Wang. 2019. Poster Presentation: On the range edge of bird-plant specialized relationships: pollination by generalist passerines in *Aeschynanthus acuminatus* (Gesneriaceae) in Taiwan. Evolution meeting 2019 (21-25 June, Providence, RI, US).
7. **J-Y Lu\***, K-S Chen,\* C-N Wang. 2018. Oral Presentation: Generalist passerines as specialized pollinators in the absence of sunbirds: Highly efficient generalized passerine pollination system of East Asian *Aeschynanthus acuminatus* (Gesneriaceae). Congress of Animal Behavior and Ecology (22-23 January, Hsinchu, Taiwan).
8. **J-Y Lu\***, K-S Chen,\* C-N Wang. 2017. Poster Presentation: Highly efficient pollination system in *Aeschynanthus acuminatus* (Gesneriaceae) reveals the potential role of generalized passerines in floral evolution of East Asia. XIX International Botanical Congress (23-29 July, Shenzhen, China).
9. **J-Y Lu\***, K-T Hsin\*, C-N Wang. 2016. Poster Presentation: Gene duplication and relax from selective constraints of *Gcyc* genes create high floral diversity in Didymocarpoideae (Gesneriaceae) (*abs# 355*) Society of Molecular Biology and Evolution Conference 2016 (3-7 July, Gold Coast, Queensland).

## TEACHING EXPERIENCES

- 2021      Teaching Assistant, Reconstructing the Tree of Life: An Introduction to Phylogenetics (BIOS 23404), University of Chicago
- 2020      Teaching Assistant Training, University of Chicago

## **OUTREACH EXPERIENCES**

- 2024      73<sup>rd</sup> Member's Night, Field Museum, Chicago, IL  
2023      72<sup>nd</sup> Member's Night, Field Museum, Chicago, IL  
2022      Member's virtual event, Field Museum, Chicago, IL (Lecture: Beyond hummingbirds)

## **PROFESSIONAL ACTIVITIES**

Journal Peer Review: *Cladistics; Plant Species Biology.*

Society Membership: Botanical Society of America; Society of Systematic Biologists.

## **FIELD WORK**

Lam Dong, Vietnam; Yunnan, Fujian, Guangdong, Guangxi, Guizhou, Sichuan, Hainan, and Hong Kong SAR, China; Taiwan.