

Jing-Yi Lu

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Field Museum of Natural History - Chicago, IL, USA

EDUCATION

- **University of Chicago** 2018 - 2025
Ph.D. in Evolutionary Biology USA
 - Dissertation: Pollinator Shifts, Floral Evolution, and Speciation in *Aeschynanthus* (Gesneriaceae)
 - Advisor: Dr. Richard H. Ree
- **University of Chicago** 2018 - 2022
M.Sc. in Evolutionary Biology USA
- **National Taiwan University** 2013 - 2018
B.Sc. in Life Science Taiwan
- **University of Melbourne** 2016 - 2017
Exchange student Australia

PUBLICATIONS

*CO-FIRST AUTHORS: CONTRIBUTE EQUALLY TO THIS RESEARCH

PUBLISHED

- [1] J-Y Lu, YW Xing, H T Luu, RH Ree. 2026. Testing macroevolutionary predictions of the Grant-Stebbins model in the origin of *Aeschynanthus acuminatus*. *New Phytol.* 249(6):3137-3148. DOI: [10.1111/nph.70871](https://doi.org/10.1111/nph.70871)
- [2] C-C Yu*, Z-Q Mo*, J-Y Lu, J-J Hu, J-B Yang, S-F Li, L-B Jia. 2025. Revisiting the Molecular Circumscription of Sladeniaceae sensu lato (Ericales): Insights from Phylogenetic Discordance. *Am. J. Bot.* 112:e70141. DOI: [10.1002/ajb2.70141](https://doi.org/10.1002/ajb2.70141)
- [3] 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](https://doi.org/10.1038/s41598-019-53035-2).
- [4] 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. DOI: [10.1371/journal.pone.0210054](https://doi.org/10.1371/journal.pone.0210054)
- [5] 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](https://doi.org/10.3389/fpls.2018.01008)

IN REVIEW

- [1] J-Y Lu, S-J Ling, M-X Ren, RH Ree. In Review. Sunbird pollination of *Aeschynanthus moningeriae* and its implications for floral adaptations for hovering.
- [2] Q Shen, N He, Y Kang, F Wang, J-Y Lu, Q Li. In Review. Multidimensional floral disparity in *Rhododendron*: Evolutionary constraints and environmental filtering in a generalized pollination system.

IN PREPARATION

- [1] 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.
- [2] Q Li, K Hu, J Wang, R Fuller, J-Y Lu, H Wang, J Liu, RH Ree, X Kou. In Prep. Genome-wide signatures and ecological strategies show the adaptation of an alpine *Rhododendron* along elevation.

GRANTS AND AWARDS

- **Armour Graduate Fellowship** 2022-2023
Field Museum of Natural History, USA
- **Negaunee fieldwork fund | P.I.: Dr. R.H. Ree** 2022
Field Museum of Natural History, USA
- **Fund for Research in Pritzker Lab (Field Museum)** 2021
Committee on Evolutionary Biology, University of Chicago, USA
- **Henry Hinds Fund for Graduate Student Research in Evolutionary Biology** 2021
Committee on Evolutionary Biology, University of Chicago, USA
- **Nellie D. Sleeth Scholarships** 2021
The Gesneriad Society, USA
- **Negaunee Fieldwork Fund | P.I.: Dr. R.H. Ree** 2020
Field Museum of Natural History, USA
- **Oral Presentation Award** 2018
Congress of Animal Behavior and Ecology, Taiwan
- **College Student Research Creativity Award** 2017
Ministry of Science and Technology, Taiwan
- **Outstanding Student Award** 2017
XIX International Botanical Congress, China
- **The Dean Award** 2017
College of Life Science, National Taiwan University, Taiwan
- **Scholarship of Overseas Education** 2017
College of Life Science, National Taiwan University, Taiwan
- **Grant for Undergraduate Research | MOST 105-2815-C-002-099-B** 2016-2017
Ministry of Science and Technology, Taiwan
- **Undergraduate Travel Award** 2016
Society of Molecular Biology and Evolution Conference, Australia
- **Mr. Cheng, Yu-Bin Memorial Scholarship | for research in plant systematics and phylogenetics** 2016
College of Life Science, National Taiwan University, Taiwan

TEACHING EXPERIENCE

- **Teaching Assistant | Reconstructing the Tree of Life: An Introduction to Phylogenetics** 2021
University of Chicago, USA
- **Teaching Assistant Training** 2020
University of Chicago, USA

CONFERENCE PRESENTATIONS

ORAL PRESENTATION

- [1] **J-Y Lu, YW Xing, H T Luu, M-X Ren, S-J Ling, RH Ree.** Pollinator-driven divergence and speciation in three *Aeschynanthus* species. Botany 2025: 26-30 July, Palm Springs, CA, USA.
- [2] **J-Y Lu, YW Xing, H T Luu, M-X Ren, S-J Ling, RH Ree.** 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, RH Ree.** Pollinator shifts and geographic range evolution in the origin of *Aeschynanthus acuminatus* (Gesneriaceae). Botany 2023: 22-26 July, Boise, ID, USA.
- [4] **J-Y Lu, S-J Ling, M-X Ren, RH Ree.** 2022. Floral traits limit pollinator assemblages and determine the visiting behavior of nectar specialist passerines. Botany 2022: 24-27 July, Anchorage, AK, USA.
- [5] **J-Y Lu, K-S Chen, C-N Wang.** 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.

POSTER PRESENTATION

- [1] **J-Y Lu**, YW Xing, H T Luu, M-X Ren, S-J Ling, RH Ree. 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, USA.
- [2] **J-Y Lu**, K-S Chen, C-N Wang. 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, USA.
- [3] **J-Y Lu**, K-S Chen, C-N Wang. 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.
- [4] **J-Y Lu**, K-T Hsin, C-N Wang. Gene duplication and relax from selective constraints of *Gcyc* genes create high floral diversity in Didymocarpoideae (Gesneriaceae). Society of Molecular Biology and Evolution Conference 2016: 3-7 July, Gold Coast, Queensland.

OUTREACH EXPERIENCE

- **73rd Member's Night** 2024
Field Museum of Natural History, USA
- **72nd Member's Night** 2023
Field Museum of Natural History, USA
- **Member's virtual event** 2022
Field Museum of Natural History, USA
 - Lecture: Beyond hummingbirds

PROFESSIONAL ACTIVITIES

JOURNAL PEER REVIEW

- *Cladistics*
- *Plant Species Biology*

SOCIETY MEMBERSHIP

- **Botanical Society of America**