

Qin Li 李勤

The Field Museum of Natural History, Chicago, IL 60605, USA

✉ qli@fieldmuseum.org · ☎ (+1) 312-973-7748 · 🌐 <https://qli.github.io/>

Research Interests

I am generally interested in ecology, evolution, and biogeography, to understand patterns of biodiversity, processes of diversification, and mechanisms of species co-existence, across spatiotemporal scales.

Academic Position

Interdisciplinary Postdoctoral Fellow, The Field Museum of Natural History 2018 – present
Negaunee Integrative Research Center & Grainger Bioinformatics Center | Supervisor: Dr. Richard H. Ree

Education

Ph.D. in Botany, University of British Columbia 2012 – 2017

Department of Botany & Biodiversity Research Centre | Supervisor: Dr. Amy L. Angert

M. Sc. in Ecology, Beijing Normal University 2008 – 2011

College of Life Sciences | Supervisor: Dr. Xiaojun Kou, Dr. Jianguo Wu (Arizona State University)

B. Sc. in Biology, Beijing Normal University 2004 – 2008

College of Life Sciences & Liyun College

Publications

1. Li, Q., Sun, H., Boufford, D.E., Bartholomew, B., Fritsch, P.W., Chen, J., Deng, T., Ree, R.H. Grade of Membership models reveal geographical and environmental correlates of floristic structure in a temperate biodiversity hotspot. *New Phytologist*. <https://doi.org/10.1111/nph.17443> (in press)
2. Li, Q., Grossenbacher D., Angert, A.L., 2018. The effect of range overlap on ecological niche divergence depends on spatial scale in monkeyflowers. *Evolution*, 72(10): 2100-2113
3. Li, Q., Kou, X., Beierkuhnlein, C., Liu, S., Ge, J., 2018. Global patterns of non-analogous climates in the past and future derived from thermal and hydraulic factors. *Global Change Biology*, 24(6): 2463-2475
4. Lee-Yaw, J.A., Kharouba, H.M., Bontrager, M., Mahony, C., Csergő, A.M., Noreen, A.M., Li, Q., Schuster, R. and Angert, A.L., 2016. A synthesis of transplant experiments and ecological niche models suggests that range limits are often niche limits. *Ecology Letters*, 19(6): 710-722
5. Kou, X., Li, Q., Beierkuhnlein, C., Zhao, Y. and Liu, S., 2014. A new tool for exploring climate change induced range shifts of conifer species in China. *PLoS ONE*, 9(9): e98643
6. Li, Q., Wu, J., Kou, X., Feng, L., 2013. Applications of camera trap in wildlife population ecology. *Chinese Journal of Applied Ecology*. 24(4): 947-955 (in Chinese)
7. Kou X., Li, Q., Liu, S., 2011. Quantifying species' range shifts in relation to climate change: A case study of *Abies* spp. in China. *PLoS ONE*. 6(8): e23115
8. Kou X., Li, Q., Liu, S., 2011. High-resolution bioclimatic dataset derived from future climate projections for plant species distribution modeling. *Ecological Informatics*. 6: 196-204

Manuscripts under review (available upon request)

1. Li, Q., Kou, X. WiBB: an integrated method quantifying relative importance of predicting variables. (with revision submitted, *Ecography*)
2. Li, Q., Angert, A.L. The diversification and evolution of niche breadth across spatial scales in western North American monkeyflowers.

- Wang, H., Liu, P.-L., Li, J., Yang, H., **Li, Q.**, Chang, Z.-Y. Why more leaflets? The role of natural selection in shaping the spatial pattern of leaf shape variation in *Oxytropis diversifolia* (Fabaceae) and two close relatives. (with revision submitted, *Frontiers in Plant Science*)

Manuscripts in preparation

- Li, Q.**, Ree, R. Niche evolution and spatiotemporal co-occurrence of *Rhododendron* plants in eastern Hengduan Mountains.
- Zhang, L., **Li, Q.**, Kou, X., Ouyang, Z. The responses of two endemic ungulates to future climate change at the Qinghai-Tibet Plateau.

Conferences and Workshops

▪ The Evolution Meeting (Talk , online; coming), USA	Jun. 2021
▪ The Grainger Bioinformatics Center Symposium of Field Museum (Talk , online), US	Nov. 2020
▪ The Biodiversity Symposium at Chengdu Institute of Biology (Talk , online), China	Sept. 2020
▪ The International Biogeography Society Humboldt Meeting (Talk), Quito, Ecuador	Aug. 2019
▪ The 9th Biennial Conference of IBS (Poster), Malaga, Spain	Jan. 2019
▪ The XIX International Botanical Congress (Talk), Shenzhen, China	Jul. 2017
▪ The Evolution Meeting (Talk), Portland, USA	Jun. 2017
▪ The Canadian Society for Ecology & Evolution Meeting (Poster), Victoria, Canada	May 2017
▪ The 7th Biennial Conference of IBS (Poster), Bayreuth, Germany	Jan. 2015
▪ The 99th Annual Meeting of ESA, Sacramento, USA	Aug. 2014
▪ The 96th Annual Meeting of ESA (Talk), Austin, USA	Aug. 2011
▪ The 95th Annual Meeting of ESA (Poster), Pittsburgh, USA	Aug. 2010
▪ The 23rd International Congress of Conservation Biology by SCB, Beijing, China	Jul. 2009
▪ The 5th International Symposium on Modern Ecology by ISOMES, Lanzhou, China	Jun. 2009
▪ Workshop in Hierarchical Modelling of Species Communities (online), Helsinki, Finland	Nov. 2020
▪ Workshop in Fuzzy logic in biogeography, Malaga, Spain	Jan. 2019
▪ Workshop in Model testing in historical biogeography, Bayreuth, Germany	Jan. 2015
▪ Workshop in Species Distribution Modeling, Vancouver, Canada	Apr. 2014
▪ Workshop in Applied Phylogenetics, Bodega Bay, USA	Mar. 2014

Awards and Honors

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- Postdoctoral fellowship, Grainger Bioinformatics Center, Field Museum, 2020–present
 - Negaunee postdoctoral fellowship, Field Museum, 2018–2019
 - Travel award for the International Biogeography Society Biennial Conference, 2019
 - Travel award for the XIX International Botanical Congress, 2017
 - Travel award for the International Biogeography Society Biennial Conference, 2015
 - Faculty of Science Graduate Award & International Tuition Award, UBC, 2012–2016
 - Excellent Graduate Student Award, Beijing City, 2008
 - Academic Scholarship, Beijing Normal University, 2005, 2006, 2007
 - Outstanding Student Scholarship, National Institute of Biological Sciences (Beijing) Education Fund, 2006
 - Excellent Student Award, Beijing Normal University, 2005, 2006

Teaching Experiences

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- Teaching Assistant, Fundamentals of Ecology, University of British Columbia Spring 2016 – Fall 2017
 - Teaching Assistant, Fundamentals of Evolution, University of British Columbia Fall 2015
 - Teaching Assistant, Lecture series of Biology, Beijing Normal University Fall 2009, Spring 2010

- Teaching Assistant, Landscape Ecology, Beijing Normal University

Fall 2008

Professional Service

- Associate Editor (Editorial Academy): Journal of Biogeography (Oct. 2020 – Sept. 2022)
- Journal peer reviewer: New Phytologist, Journal of Biogeography, Ecology and Evolution
- Chinese Genomics Meet-up, Executive Committee (2021.05 –)

Referees

Dr. Richard H. Ree

Curator of Flowering Plants | Co-Director, Grainger Bioinformatics Center
The Field Museum of Natural History, Chicago, IL, 60605 USA
Faculty Associate, Committee on Evolutionary Biology, University of Chicago
Email: rree@fieldmuseum.org
www.reelab.net

Dr. Amy L. Angert

Associate Professor
Canada Research Chair in Conservation Ecology
Department of Botany & Zoology and Biodiversity Research Centre
University of British Columbia, Vancouver, B.C. V6T 1Z4 Canada
Email: angert@mail.ubc.ca
angert.github.io

Dr. Xiaojun Kou

Professor
College of Life Sciences
Beijing Normal University, Beijing, 100875, China
Email: xj_kou@bnu.edu.cn