

Qin Li 李勤

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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, 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., Kou, X. 2021. *WiBB*: an integrated method quantifying relative importance of predicting variables. **Ecography** (accepted)
2. Wang, H., Liu, P.-L., Li, J., Yang, H., Li, Q., Chang, Z.-Y. 2021. 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. **Frontiers in Plant Science** (accepted)
3. Li, Q., Sun, H., Boufford, D.E., Bartholomew, B., Fritsch, P.W., Chen, J., Deng, T., Ree, R.H. 2021. 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)
4. 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
5. 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
6. 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
7. 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
8. 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)
9. 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
10. 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.**, Angert, A.L. The diversification and evolution of niche breadth across spatial scales in western North American monkeyflowers.

Manuscripts in preparation

1. **Li, Q.**, Ree, R. Niche evolution and spatiotemporal co-occurrence of *Rhododendron* plants in eastern Hengduan Mountains.
2. 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

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| ▪ The Evolution Meeting (Talk , online), 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

- 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 Education Fund, 2006
- Excellent Student Award, Beijing Normal University, 2005, 2006

Teaching Experiences

- 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 –)

Skills

- Programming and data processing (R, GIS) | Field survey | Common Garden/Greenhouse

Languages

- Chinese (native) | English (fluent) | Tibetan (entry-level)

Referees

Dr. Richard H. Ree

Curator of Flowering Plants | Co-Director, Grainger Bioinformatics Center
The Field Museum of Natural History, Chicago, IL, 60605 USA
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Dr. Amy L. Angert

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Canada Research Chair in Conservation Ecology
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