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Research Specialization and Potential Collaborating Areas:

I mainly study on biodiversity conservation and behavioral ecology, especially focusing on the features, function and adaptation evolution on the echolocation calls and communication vocalization of bats.

Academic Experience:

2004-2009, Ph.D., Zoological Ecology, Northeast Normal University, China

2000-2003, M.S., Zoological Ecology, Northeast Normal University, China

1996-2000, B.S., Environmental Science, Northeast Normal University, China

Professional Experience:

2011-present, Associate Professor, Northeast Normal University, China

2007-2008, Visiting Scholar, University of California, Los Angeles, USA

2006-2011, Lecturer, Northeast Normal University, China

2003-2006, Assistant Professor, Northeast Normal University, China

Publications

Bo Luo, Guanjun Lu, Kelly Chen, Dongge Guo, Xiaobin Huang, **Ying Liu*** and Jiang Feng**. 2017. Social calls honestly signal female competitive ability in Asian particoloured bats. *Animal Behaviour*. 127: 101-108.

Bo Luo, Xiaobin Huang, Yuanyuan Li, Guanjun Lu, Jianlun Zhao, Kangkang Zhang, Hanbo Zhao, **Ying Liu***, Jiang Feng. 2017. Social call divergence in bats: a comparative analysis. *Behavioral Ecology*. 28(2): 533-540.

Hongjun Lin, Jagmeet S. Kanwal, Tinglei Jiang, **Ying Liu***, Jiang Feng. 2015. Social and vocal behavior in adult greater tube-nosed bats (*Murina leucogaster*). *Zoology*. 118(3):192-202.

Ying Liu, Jiang Feng*, Walter Metzner**. 2013. Different Auditory Feedback Control for Echolocation and Communication in Horseshoe Bats. *PLoS ONE*. 8(4): e62710.

Ying Liu, Walter Metzner**, Jiang Feng*. 2013. Vocalization during copulation behavior in greater horseshoe bats, *Rhinolophus ferrumequinum*. *Chinese Science Bulletin*. 58(18): 2179-2184.

Bo Luo, Tinglei Jiang, **Ying Liu***, Jing Wang, Aiqing Lin, Xuewen Wei, Jiang Feng**. 2013. Brevity is prevalent in bat short-range communication. *Journal of Comparative Physiology*. 199: 325-333.

Ying Liu, Long-ru Jin, Walter Metzner, Jiang Feng * 2009. Postnatal growth and age estimation in big-footed myotis, *Myotis macrodactylus*. *Acta Chiropterologica* 11, 105-111.

Ying Liu, Ting-lei Jiang, Sern Berquist , Feng Jiang* 2009. Vocal characters and wing morphology of *Rhinolophus marshalli* from Tiantang Cave, Guangxi Province, China. *Mammalia* 73, 373-376.

Ying Liu, Jiang Feng *, et. al. 2007. Vocalization development of greater horseshoe bat, *Rhinolophus ferrumequinum* (Rhinolophidae, Chiroptera). *Folia Zoologica*, 56(2):126-136.

Ying Liu, LUN Xiaowen, et. al. 2005. A New Record of Vespertilionidae in Jilin Province. *Chinese Journal of Zoology*, 40(1): 101-103

Ying Liu, Jiang Feng, et. al. 2004. Difference among echolocation calls of *Miniopterus schreibersii parvipes* during different States. *Acta Theriologica Sinica*, 24(4): 293-297

Ying Liu, Jiang Feng et al. 2003. The analysis on echolocation calls of *Myotis fimbriatus* (Chiroptera: Vespertilionidae). *Journal of Northeast Normal University*. 35(2): 113-116

Jiang Feng, **Ying Liu**, et al. 2003. The echolocation calls and mother-infant communication of *Pipistrellus abramus* (Chiroptera: Vespertilionidae). *Progress in Natural Science (Chinese)*. 13(12): 1236-1242

Jiang Feng, **Ying Liu**, et. al. 2001. The relationship between echolocation calls and bodily form of four species of Hipposiderid bats. *Journal of Northeast Normal University*, 33(4): 81-85

Min Chen, Jiang Feng, **Ying Liu**, et al. 2004 Relationship between echolocation calls and age in the bat species of *Rhinolophus pearsoni*. *Zoological Research*, 25(1): 15-19

Jiang Feng, Min Chen, **Ying Liu**, et al. 2003 Sexual differences in morphology and echolocation calls in five Chinese bat species. *Acta Zoologica Sinica*, 49(6): 742-747

The projects sponsored

1. Dynamic adjustment on active sensing and 3D target location of echolocation in bats, funded by National Natural Science Foundation of China. 2018.01-2021.12

2. Studies on the “Social Intelligence ” based on the syntax and recognition function of communication vocalizations in greater horseshoe bats, *Rhinolophus ferrumequinum*, funded by National Natural Science Foundation of China. 2014.01-2017.12

3. The behavioral motivation and function of communication vocalizations in greater horseshoe bats, *Rhinolophus ferrumequinum*, funded by National Natural Science Foundation of China. 2010.01-2012.12.

4. Prey and anti-prey behavior between horseshoe bats (Chiroptera: Rhinolophidae) and moths (Lepidoptera) in Jilin Province, funded by Natural Science Foundation of Northeast Normal University, 2004-2005.

5. Foraging strategies and diets of horseshoe bats (Chiroptera: Rhinolophidae), funded by Foundation of Excellent Ph. D candidate of Northeast Normal University, 2005-2008.

Honors

2010 Program for Excellent Talents of Northeast Normal University.

2013 Program for New Century Excellent Talents in University of Jilin Province

Award

2009 The first prize of Science and Technology Award of Jilin Province

2016 The first prize of Science and Technology Award of Jilin Province