

# JUNXIA ZHANG

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University of California, Riverside  
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Riverside, CA 92521  
USA

## CURRICULUM VITAE

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## HIGHER EDUCATION

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**University of British Columbia**, BC, Canada

**PhD** in Zoology, 2012

Thesis: Phylogeny and systematics of the jumping spider subfamily Euophryinae (Araneae: Salticidae), with consideration of biogeography and genitalic evolution (available at <https://circle.ubc.ca/handle/2429/42354>)

**Hebei University**, Hebei, China

**M.S.** in Zoology, 2002

Thesis: A review of the Chinese nursery-web spiders (Araneae: Pisauridae)

**Hebei Normal University**, Hebei, China

**B.S.** in Biological Education, 1999

## RESEARCH INTERESTS

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Phylogeny, phylogenomics, biodiversity, historical biogeography and systematics; evolutionary biology with emphasis on genitalic evolution, sexual selection and sociality evolution.

## RESEARCH EXPERIENCE

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Postdoctoral Fellow, **University of California, Riverside**, Department of Entomology, USA, 2015.10-2016.11 (PI: Dr. Jessica Purcell)

Postdoctoral Fellow, **University of California, Riverside**, Department of Entomology, USA, 2013.11-2015.10 (PI: Dr. Christiane Weirauch)

Collections Technician, Entomology, **University of British Columbia**, Beaty Biodiversity Museum, Canada, 2013.01-2013.04 (Supervisor: Karen Needham)

Postdoctoral Fellow, **University of British Columbia**, Department of Zoology, Canada, 2012.08-2012.12, 2013.05-2013.10 (PI: Dr. Wayne P. Maddison)

## TEACHING EXPERIENCE

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Graduate Teaching Assistant, **University of British Columbia**, Department of Zoology, Canada, 2006-2012

Lecturer, **Hebei University**, College of Life Sciences, China, 2002-2005

**PEER-REVIEWED PUBLICATIONS**

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- Zhang, J.**, Gordon, E. R. L., Forthman, M., Hwang, W. S., Walden, K., Swanson, D. R., Johnson, K. P., Meier, R., Weirauch, C. 2016. Evolution of the assassin's arms: insights from a phylogeny of combined transcriptomic and ribosomal DNA data (Heteroptera: Reduvidae). *Scientific Reports*, 6: 22177. DOI: 10.1038/srep22177
- Maddison, W. P., Maddison, D. R., **Zhang, J.**, Szüts, T. 2016. Phylogenetic placement of the unusual jumping spider *Depreissia* Lessert, and a new synapomorphy uniting Hisponinae and Salticinae (Araneae, Salticidae). *ZooKeys*, 549: 1-12.
- Zhang, J.**, Weirauch, C., Zhang, G., Forero, D. 2015. Molecular phylogeny of Harpactorinae and Bactrodinae uncovers complex evolution of sticky trap predation in assassin bugs (Heteroptera: Reduviidae). *Cladistics*, 1-17. DOI: 10.1111/cla.12140
- Zhang, J.**, Maddison, W. P. 2015. Genera of euophryine jumping spiders (Araneae: Salticidae), with a combined molecular-morphological phylogeny. *Zootaxa*, 3938: 1-147.
- Weirauch, C., Bérenger, J.-M., ... **Zhang, J.** 2014. An illustrated identification key to assassin bug subfamilies and tribes. *Canadian Journal of Arthropod Identification*, 26: 1-115.
- Maddison, W. P., Li, D., Bodner, M., **Zhang, J.**, Xu, X., Liu, Q., Liu, F. 2014. The deep phylogeny of jumping spiders (Araneae, Salticidae). *Zookeys*, 440: 57-87.
- Zhang, J.**, Maddison, W. P. 2014. *Tisaniba*, a new genus of marpissoid jumping spiders from Borneo (Araneae: Salticidae). *Zootaxa*, 3852: 252-272.
- Zhang, J.**, Maddison, W. P. 2013. Molecular phylogeny, divergence times and biogeography of spiders of the subfamily Euophryinae (Araneae: Salticidae). *Molecular Phylogenetics and Evolution*, 68: 81-92.
- Zhang, J.**, Maddison, W. P. 2012. New euophryine jumping spiders from Southeast Asia and Africa (Araneae: Salticidae: Euophryinae). *Zootaxa*, 3581: 53-80.
- Zhang, J.**, Maddison, W. P. 2012. New euophryine jumping spiders from Central and South America (Araneae: Salticidae: Euophryinae). *Zootaxa*, 3578: 1-35.
- Zhang, J.**, Maddison, W. P. 2012. New euophryine jumping spiders from Papua New Guinea (Araneae: Salticidae: Euophryinae). *Zootaxa*, 3491: 1-74.
- Zhang, J.**, Maddison, W. P. 2012. New euophryine jumping spiders from the Dominican Republic and Puerto Rico (Araneae: Salticidae: Euophryinae). *Zootaxa*, 3476: 1-54.
- Maddison, W. P., **Zhang, J.**, Bodner, M. R. 2007. A basal phylogenetic placement for the salticid spider *Eupoa*, with descriptions of two new species (Araneae: Salticidae). *Zootaxa*, 1432: 23-33.
- Zhang, J.**, Qu, P., Zhu, M. S., Song, D. X. 2007. Observations on the tarsal organ, socket of trichobothria and spinnerets of three lynx spiders by scanning electron microscope. *Journal Hebei University*, 27 (2): 188-194.
- Zhang, J.**, Zhu, M. S., Tso, I. M. 2006. Four new crab spiders from Taiwan (Araneae, Thomisidae). *Journal of Arachnology*, 34 (1): 77-86.

- Zhang, J.**, Woon, J. R., Li, D. 2006. A new genus and species of jumping spiders (Araneae: Salticidae: Spartaeinae) from Malaysia. *The Raffles Bulletin of Zoology*, 54 (2): 241-244.
- Maddison, W. P., **Zhang, J.** 2006. New lyssomanine and hisponine jumping spiders from Africa (Araneae: Salticidae). *Zootaxa*, 1255: 29-35.
- Zhu, M. S., **Zhang, J.**, Zhang, F. 2006. Rare spiders of the genus *Cyclocosmia* (Arachnida: Araneae: Ctenizidae) from tropical and subtropical China. *The Raffles Bulletin of Zoology*, 54 (1): 133-139.
- Agnarsson, I., **Zhang, J.** 2006. New species of *Anelosimus* (Araneae: Theridiidae) from Africa and Southeast Asia, with notes on sociality and color polymorphism. *Zootaxa*, 1147: 1-37.
- Zhang, J.**, Li, D. 2005. Four new and one newly recorded species of the jumping spiders (Araneae: Salticidae: Lyssomaninae & Spartaeinae) from (sub)tropical China. *The Raffles Bulletin of Zoology*, 53 (2): 221-229.
- Tso, I. M., Zhu, M. S., **Zhang, J.** 2005. A new species of the genus *Dipoena* from Taiwan (Araneae: Theridiidae). *Acta Arachnologica*, 54 (1): 21-22.
- Tso, I. M., Zhu, M. S., **Zhang, J.**, Zhang, F. 2005. Two new and one newly recorded species of Corinnidae and Liocranidae from Taiwan (Arachnida: Araneae). *Acta Arachnologica*, 54 (1): 45-49.
- Zhang, J.**, Zhu, M. S., Song, D. X. 2005. Revision of the spider genus *Hamataliwa* Keyserling from China (Araneae: Oxyopidae). *Zootaxa*, 1017: 1-17.
- Zhang, J.**, Zhang, Y. Q., Kim, J. P. 2005. A New Species of the Spider Genus *Oxyopes* from Guangxi, China (Araneae: Oxyopidae). *Korean Arachnology*, 21 (1): 1-5.
- Zhang, J.**, Yang, Z. Z., Zhu, M. S. 2005. Two new species of the genus *Oxyopes* from China (Araneae: Oxyopidae). *Journal of Hebei University*, 25 (1): 75-78. (In Chinese)
- Zhang, J.**, Zhu, M. S., Song, D. X. 2005. A new species of the genus *Dolomedes* from China (Araneae: Pisauridae). *Acta Arachnologica Sinica*, 14 (1): 7-9. (In Chinese)
- Zhang, J.**, Zhu, M. S., Song, D. X. 2004. A review of the Chinese nursery-web spiders (Araneae: Pisauridae). *The Journal of Arachnology*, 32: 353-417.
- Zhang, J.**, Zhu, M. S. 2004. Two new species of the spider genus *Oxyopes* (Araneae: Oxyopidae) from China. *Acta Arachnologica*, 53 (2): 105-108.
- Zhang, J.**, Chen, H. M., Kim, J. P. 2004. New discovery of the female *Asemonea sichuanensis* (Araneae: Salticidae) from China. *Korean Arachnology*, 20 (1): 7-11.
- Zhang, J.**, Song, D. X., Li, D. 2003. Six new and one newly recorded species of Salticidae (Arachnida: Araneae) from Singapore and Malaysia. *The Raffles Bulletin of Zoology*, 51 (2): 187-195.
- Zhang, J.**, Zhang, C. 2003. Taxonomic studies on two pisaurid species from China (Araneae: Pisauridae). *Acta Arachnologica Sinica*, 12 (1): 14-17. (In Chinese)
- Yang, Z. Z., **Zhang, J.**, Zhu, M. S., Song, D. X. 2003. A new species in the genus *Psechrus* from China (Araneae: Psechridae). *Journal of Agricultural University of Hebei*, 26 (2): 43-45. (In Chinese)

- Chen, H. M., **Zhang, J.**, Song, D. X. 2003. A newly recorded species of the family Philodromidae from China (Arachnida: Araneae). *Acta Arachnologica Sinica*, 12 (2): 91-93. (In Chinese)
- Zhang, J.**, Zhu, M. S., Song, D. X. 2002. A review of the predatory behavior of the tetragnathids (Araneae: Tetragnathidae). *Acta Arachnologica Sinica*, 11 (1): 61-64. (In Chinese)
- Zhu, M. S., Song, D. X., **Zhang, J.**, Gu, D. X. 2002. The *Tetragnatha* spiders familiar to paddy field from China (Araneae: Tetragnathidae). *Natural Enemies of Insects*, 24 (2): 77-95. (In Chinese)
- Chen H. M., **Zhang, J.**, Song, D. X., Kim, J. P. 2002. A new species of the genus *Psechrus* from China (Araneae: Psechridae). *Korean Arachnology*, 18 (1): 9-12.
- Song, D. X., **Zhang, J.**, Li, D. 2002. A checklist of spiders from Singapore (Arachnida: Araneae). *The Raffles Bulletin of Zoology*, 50 (2): 359-388.
- Zhang, J.**, Song, D. X. 2001. One new spider species of the genus *Gnaphosa* (Araneae: Gnaphosidae) from China. *Journal of Hebei University*, 21 (1): 78-79. (In Chinese)
- Zhang, J.**, Chen, H. M., Zhu, M. S. 2001. Three new species of the genus *Steatoda* (Araneae: Theridiidae) from Guizhou. *Journal of Hebei University*, 21 (3): 305-309. (In Chinese)
- Zhu, M. S., **Zhang, J.**, Chen, H. M. 2001. A new species of the genus *Wendilgarda* from China (Araneae: Theridiosomatidae). *Acta Zoologica Taiwanica*, 12 (1): 1-8. (In Chinese)
- Zhang, J.** 2000. Taxonomy studies on Chinese spiders of the genus *Pisaura* (Araneae: Pisauridae) I. *Acta Arachnologica Sinica*, 9 (1): 1-9. (In Chinese)
- Zhang, F., **Zhang, J.** 2000. Three new species and a new discovery of female of genus *Pholcus* from Taihang Mts., China. *Journal of Hebei University*, 20 (2): 151-156. (In Chinese)
- Zhu, M. S., Zhang, F., **Zhang, J.** 1999. A new mygalomorph spider (Nemesidae: Raveniola) from China. *Journal of Hebei University*, 19 (4): 366-368. (In Chinese)

## MANUSCRIPTS IN PREPARATION

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- Zhang, J.**, Maddison, W. P. Intersexual correlated evolution of genitalia in euophryine jumping spiders (Araneae: Salticidae): sexual selection or “lock-and-key”?
- Weirauch, C., **Zhang, J.**, etc. Molecular phylogeny of Emesinae and related groups (Heteroptera: Reduviidae).

## BOOK AND BOOK CHAPTERS

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- Maddison, W. P., **Zhang, J.** 2011. Chapter 14: Salticid spiders of Papua New Guinea. In: Richards, S. J. and Gamui, B. G. (Ed) Rapid biological assessments of the Nakanai Mountains and the upper Strickland Basin: surveying the biodiversity of Papua New Guinea’s sublime karst environments. RAP Bulletin of Biological Assessment 60. Conservation International, Arlington, VA, 186-189.
- Song, D. X., **Zhang, J.**, Zhu, M. S. 2006. Mimetidae, Hersiliidae, Uloboridae, Theridiidae, Linyphiidae, Tetragnathidae, Araneidae, Lycosidae, Pisauridae, Agelenidae, Psechridae, Oxyopidae, Clubionidae, Gnaphosidae, Selenopidae, Sparassidae, Thomisidae and Salticidae. In:

Li, Z. Z. and Jin, D. C. (Ed) Insects from Fanjingshan landscape. Guiyang: Guizhou Science and Technology Publishing House, 656-692. (in Chinese)

Zhu, M. S., **Zhang, J.**, Zhang, Z. S., Chen, H. M. 2005. Arachnida: Araneae. In: Yang, M. F. and Jin, D. C. (Ed) Insects from Dashahe nature Reserve of Guizhou. Guiyang: Guizhou Peoples Publishing House, 490-551. (In Chinese)

Zhu, M. S., Song, D. X., **Zhang, J.** 2003. Fauna Sinica: Arachnida: Araneae: Tetragnathidae. Science Press, Beijing, xvi + 402pp. (In Chinese)

## GRANTS AND AWARDS

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Travel award for “In The Light of Evolution X: Comparative Phylogeography” in Irvine, CA, 2006 (US\$150).

National Science Foundation for “Collaborative Research: the generation of a biodiversity hotspot - paleobiogeography of the Caribbean inferred from multiple arachnid lineages with differing dispersal abilities” (DEB-1050187, 1050253, 1314749), 2012-2017 (Collaborator).

BRITE International Travel Award, The Biodiversity Research Centre, UBC, 2010 (CAD\$500).

Zoology Graduate Student Travel Award, UBC, 2010 (CAD\$500).

University International Partial Tuition Scholarship, UBC, 2009 (CAD\$2,065).

University Graduate Fellowship, UBC, 2007-2009 (CAD\$32,000).

University Ph.D. Tuition Fee Award, UBC, 2005-2008 (CAD\$28,800).

Youth Science and Technology Award of China Zoological Society, 2006 (CN¥ 2,000).

Graduate Entrance Scholarship, UBC, 2005-2006 (CAD\$4,966.50).

Research Grant for “Systematic study on Chinese lynx spiders (Araneae: Oxyopidae)”, Hebei University, 2003-2004 (PI).

National Natural Science Foundation of China Grant for “On the taxonomy and biogeography of Chinese mygalomorph spiders”, 2002-2004 (Collaborator).

Graduate Scholarship for Publication, Hebei University, 2002 (CN¥1,000).

National Natural Science Foundation of China Grant for “Fauna Sinica Araneae Tetragnathidae”, 1999-2001 (Collaborator).

Graduate Scholarship of Excellence, Hebei University, 2001 (CN¥800).

Undergraduate Scholarship of Excellence, Hebei Normal University, 1996-1998 (CN¥1,600).

## PRESENTATIONS AT SCIENTIFIC MEETINGS AND SEMINARS

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**Zhang, J.** 2016. Starting from trees: explore phylogeny, evolution and biogeography of spiders and insects. Seminar at Department of Biology, San Diego State University, USA.

**Zhang, J.** 2015. Trees and beyond: phylogeny, evolution and biogeography of jumping spiders and assassin bugs. Seminar at Department of Entomology, UCR, USA.

**Zhang, J.** and Weirauch, C. 2014. Count on environment or yourself? Evolution of sticky trap predation across Harpactorinae (Heteroptera: Reduviidae). 5<sup>th</sup> Quadrennial Meeting of the International Heteropterists' Society. Washington, D. C., USA.

**Zhang, J.** 2012. Euophryine jumping spiders (Araneae: Salticidae): phylogeny, biogeography and genitalic evolution. PhD Exit Seminar at BLISS, UBC, Canada.

**Zhang, J.** and Maddison, W. P. 2011. Intersexual coevolution of genitalia in euophryine jumping spiders (Araneae: Salticidae): sexual selection or "lock-and-key"? 35<sup>th</sup> American Arachnological Society Meeting. Portland, USA.

**Zhang, J.** and Maddison, W. P. 2010. Molecular phylogeny indicates intercontinental dispersal of euophryine spiders in evolutionary history (Araneae: Salticidae). 18<sup>th</sup> International Congress of Arachnology. Siedlce, Poland.

**Zhang, J.** 2009. Phylogeny and biogeography of the subfamily Euophryinae (Araneae: Salticidae). Seminar at Department of Zoology, College of Life Sciences, Hebei University, China.

**Zhang, J.** and Maddison, W. P. 2008. Phylogeny of the subfamily Euophryinae (Araneae: Salticidae), with consideration of biogeography. 32<sup>nd</sup> American Arachnological Society Meeting. Berkeley, USA.

## OTHER TRAINING

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"3D Printing and Entomology" Workshop. University of California, Riverside, USA. January-February 2016. (a workshop touching on several aspects of 3D printing with a focus on teaching participants to create items useful for conducting entomological science)

"Software Carpentry" Workshop. University of California, Riverside, USA. 24-26 March 2015. (a 3-day workshop on UNIX shell, Git, Python programming to process genomic data)

Data Mining and Distribution Modeling Workshop. University of California, Riverside, USA. 17-18 June 2014. (a 2-day workshop on integrating collection data with higher level questions in science from biogeography to host associations, climate change and other major issues)

Faculty Instructional Skills Workshop. University of British Columbia, Canada. 16-18 July 2013. (a 3-day workshop on improving instructional skills)

Instructional Skills Program for International Teaching Assistants. University of British Columbia, Canada. November 2005. (a program designed to assist international scholars in developing the skills to successfully transition into Canadian academic settings)

## WORKSHOP ORGANIZED

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Mesquite workshop. January-February 2014. University of California, Riverside, USA (the workshop covers most of the basic functions of the program Mesquite, a modular system for evolutionary system).

## FIELD EXPERIENCE

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2015, California, USA: ant collecting.

2013, California, USA: assassin bug collecting.  
2009, Dominican Republic and Puerto Rico: jumping spider collecting.  
2008, Panama: jumping spider collecting.  
2006, China: Guangxi Province, jumping spider collecting.  
2005, Singapore and Malaysia, jumping spider collecting.  
2004, China: Guangxi and Hunan Province, arachnid collecting.  
2004, China: Henan Province, arachnid collecting.  
2003, China: Hainan Province, arachnid collecting.  
2003, China: Sichuan, Guizhou and Hubei Province, arachnid and millipede collecting.  
2002, China: Tibet, arachnid collecting.  
2001, China: Hubei Province, arachnid collecting.  
2001, China: Guizhou Province, arachnid collecting.  
2000, China: Sichuan, Yunnan, Guangxi and Guizhou Province, arachnid collecting.  
1999, China: Hebei Province, spider collecting.

## **PROFESSIONAL SERVICE**

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Reviewer for NSF grant proposal (2013).

Reviewer for the journals: Molecular Phylogenetics and Evolution; Zootaxa; ZooKeys; The Journal of Arachnology; Pan-Pacific Entomologist; Records of the Australian Museum.

## **PROFESSIONAL MEMBERSHIPS**

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2001-present	Arachnological Society of China
2008-present	American Arachnological Society
2010-present	International Society of Arachnology
2014-present	International Heteropterists' Society

## **PUBLIC OUTREACH**

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Present at "The Way Cool Biodiversity Seminar Series" at the Beaty Biodiversity Museum, UBC (April 2013 <https://www.youtube.com/watch?v=dVEfWKhmWZs>)

Volunteer in the event of "Beaty and the Beasts - Celebration of International Day of Biodiversity" at the Beaty Biodiversity Museum, UBC (May 2010)

Museum educator volunteer in the Museum of Hebei Normal University, China (2000-2001)