

**Zhu Weina, PhD**

School of Information Science and Technology, Yunnan University  
State Key Laboratory of Brain and Cognition, Kunming Institute of Zoology  
China Academy of Science  
zhuweina.cn@gmail.com

**Education:**

Xiamen University, Xiamen, Fujian Province, China. Ph.D in Mathematics, 2008, Department of Cognitive Science, Advisor: Professor Zhou Changle

Yunnan University, Kunming, Yunnan Province, China. Master Degree in Computational Mathematics, 2005, School of information and technology

Kunming University of Science and Technology, Kunming, Yunnan Province, China. Bachelor of Science, 1999, School of Information science.

**Experience:**

2010.10 – present: Associate Professor in School of Information Science and Technology, Yunnan University

2008.10 – present: Postdoctoral researcher in the area of auditory and visual cognition, Kunming Institute of Zoology of Chinese Academy of Sciences. Supervisor: Prof. Yuanye Ma.

2010.09 – 2011.03: Postdoctoral researcher in the area of perception of natural scenes, Psychology Department, Giessen university. Supervisor: Prof. Karl Gegenfurtner.

2005.06 – 2008.06: Ph.D. student at the Department of Cognitive Science, Xiamen University research area: Cross cultural music effect on cognition. Supervisor: Prof. Zhou Changle.

2002.09 – 2005.06: Master student at Yunnan University researching image retrieval. Supervisor: Prof. Xu Dan.

1999.06 – 2002.09: Technician of Yunnan Branch of China Telecom Company.

1995.06 – 1999.06: Undergraduate at Kunming University of Science and Technology, School of Information Science.

**Further Scientific Experience:**

2005, 2007, 2008 Neuroscan Advanced training of ERP

2006 Advanced seminar about synchronal experiments of ERP combined with fMRI (Brainvision Inc)

2007 10th IBRO-APRC Associate School of Neuroscience (China)

2009 IBRO-ANS Advanced Neuroscience School on Neuroethology (Australian)

2010 14th IBRO-APRC Associate School of Neuroscience (Thailand)

2010 European Summer School Visual Neuroscience: from spikes to awareness. Rauschholzhausen Castle (Germany)

**Presentations and Posters at international conference:**

2014.05 VSS (Vision Science Society annual meeting), USA  
2013.05 VSS (Vision Science Society annual meeting), USA  
2012.08 ECVF (European Conference of Visual Perception), Italy  
2012.05 VSS (Vision Science Society annual meeting), USA  
2011.11 SfN (Society for Neuroscience), USA  
2011.08 ECVF (European Conference of Visual Perception), France  
2009.01 Australian Neuroscience Society Conference 2009, Australia  
2008.12 FAONS (Federation of Asian-Oceanian Neuroscience Societies) Symposium, Thailand  
2007.11 3<sup>rd</sup> International workshop of brain and cognition neuroscience, China. Oral Presentation.  
2007.10 7<sup>th</sup> National Neuroscience Meeting of the Chinese Society for Neuroscience (CSfN). China  
2006.08 International Symposium on Pervasive Computing & Applications. China. Oral Presentation.

**Grants:**

2013-2016 National Nature Science Foundation of China (61263042)  
2010-2012 National Nature Science Foundation of China (61005087)  
2010-2012 Yunnan Education Department Key Project (2010Z067)  
2009-2011 Yunnan Science and Technology Project (2009CD018)  
2008-2010 Research Fund of Yunnan University (KL080012)  
2008-2009 Research Fund of young scientific researcher of Yunnan University (030-WX069051)

**Honors and Awards:**

Young backbone teacher of Yunnan University, 2010  
Scholarship of anniversary of the founding of Xiamen University, 2007-2008  
Excellent Graduate Award, Yunnan University, 2005, 2004  
Paragon Student Award, Kunming University of Science and Technology, 1999, 1998, 1997 and 1996

**Skills:**

**Experimental psychology:**

Conceptualization, design, execution and statistical analysis of human perception experiments, in particular EEG recording and analysis, eye tracking in general (optical/camera based, EOG).

**Computer Vision:**

Proficient in general image processing, content based image retrieval; experienced in Fourier transforms, spectral analysis, and applications of classifiers to image-based data

**Programming languages:**

Matlab, Presentation, C/C++

**Teaching Experience:**

Digital Image Processing  
Advanced Digital Image Processing  
Multimedia Technology  
Current Advances in Computer Science  
Basic Computer Science  
Art, Cognition and Computation

## Publications

### A) Articles with peer review process

1. **Zhu W.**, J. Drewes, et al. (2013). "Animal detection in natural images: effects of color and image database." *PLoS One* **8**(10): e75816.
2. **Zhu W.**, Zhang J., Zhou C. (2013): The time course of the perceptual processing of "hole" and "no-hole" figures: An ERP study. *Neuroscience Bulletin*: **29**(1): p. 47-57
3. **Zhu, W.**, ZHANG J, Ding X, Zhou C, Ma Y. (2010) Face Capture more Attentional Resource than No-face Object: An ERP study. The 6<sup>th</sup> International Conference on Natural Computation (ICNC'10)., p. 1953-1957.
4. **Zhu W**, ZHANG J, Ding X, Zhou C, Ma Y, Xu D. (2009) Crossmodal Effect of Guqin Music and Piano music on Selective attention: an event-related potential study. *Neuroscience Letters* 466: 21-26
5. ZHANG J, **Zhu W**, Ding X, Zhou C, Ma Y. (2009): Different Masking Effects on "hole" and "no-hole" Figures. *Journal of Vision* 9(9):6 1-14
6. ZHANG J, **Zhu W**, Liu H, Zhou C, Ma Y. (2009): Configural Processing of Different Topological Structure Figures: an ERP Study. *Science in China Series C: Life Sciences*. 39(9): 898-903.
7. **Zhu W**, Zhao L, ZHANG J, Ding X, Liu H, Ni E, Ma Y, Zhou C. (2008): The Influence of Mozart's Sonata K.448 on Visual Attention: An ERPs Study. *Neuroscience Letters* 434(1): 35-40.
8. **Zhu W**, ZHANG J, Liu H, Ding X, Ma Y, Zhou C. (2008): Differential cognitive responses to guqin music and piano music in Chinese subjects: an event-related potential study. *Neuroscience Bulletin* 24(1): 21-28.
9. **Zhu W**, ZHOU C, Xu D, Xu J. (2006): A Multi-feature CBIR Method Using in the Traditional Chinese Medicine Tongue Diagnosis. *International Symposium on Pervasive Computing and Applications at Xinjiang, China, August 2006*: 831-837.
10. **诸薇娜**, 徐丹, 周昌乐 (2005), 多特征图像检索技术在中医舌诊中的应用研究. *中国图象图形学报*, 2005. **10**(8): p. 992-998.  
**Zhu W**, XU D, ZHOU C. (2005): Application of Multi-feature Content-based Image Retrieval in the Traditional Chinese Medicine Tongue Diagnosis. *Journal of Image and Graphics* 10(8): 992-998. (in Chinese)

11. **Zhu W**, XU D, ZHOU C. (2004): Combining Color and Texture for Image Retrieval in the Traditional CMTD. 10<sup>th</sup> JICC, Proceedings of the TENTHJOINT International Computer Conference, at Kunming, China, November 2004:165-172.
  
12. **诸薇娜**, 徐丹, 周昌乐 (2004). 结合颜色纹理特征的检索技术在中医舌诊中的应用研究. 十三届全国多媒体技术会议. 2004 :112-118  
**Zhu W**, XU D, ZHOU C. (2004): How to Combine Different Features for Image Retrieval in the Traditional CMTD. 13<sup>th</sup> National Conference of Multimedia Technology at Ningbo, China, October 2004:112-118. (in Chinese)
  
13. **诸薇娜**, 徐丹, 周昌乐, 基于内容的图像检索在舌诊客观化应用中的研究. 云南大学学报, 2004. **26**(5A): p. 138-143.  
**Zhu W**, XU D, ZHOU C. (2004): The Application of Content-based Image Retrieval in the Traditional Chinese Medicine Tongue Diagnosis. Journal of **Yunnan** University: Natural Sciences Edition. 26(5A): 138-143. (in Chinese)
  
14. **诸薇娜**, 徐丹, 基于内容的图像检索综述. 云南大学学报, 2003. **25**(6A): p. 29-34.  
**Zhu W**, XU D. (2003): Review of Content-based Image Retrieval. Journal of **Yunnan** University: Natural Sciences Edition. 25(6A): 29-34. (in Chinese)

## **B) Abstracts with peer review process**

1. **Zhu W**, Ma Y. (2012): Effects of closure on the processing of invisible figures: An ERP study. European Conference on Visual Perception (ECVP), at Alghero, Italy, September, 2012. (declaration of acceptance enclosed)
  
2. **Zhu W**, Ma Y. (2012): Different activity in the early stage of the perceptual processing of closed and open figures. Presented at 12<sup>th</sup> Vision Sciences Society annual meeting (VSS), at Naples, Florida, U.S.A., May 2012, Perceptual organization: Neural mechanisms and models: 63.324
  
3. **Zhu W**, Zhang J., Cai J. Ma Y. (2011): Different perceptual load for hole and no-hole figures in visual processing. Presented at Society of Neuroscience annual meeting (SfN), at Washington DC, U.S.A., November 2011, Visual Perception and Imagery: 399.147/XX41
  
4. **Zhu W**, Gegenfurtner K. (2011): Animal detection in natural images: effects of color and image database. 34<sup>th</sup> European Conference on Visual Perception (ECVP), at Toulouse, France, August, 2011. Perception (40): ECVP Abstract Supplement: Natural scenes 117: 95
  
5. **Zhu W**, ZHANG J, Ma Y, Zhou C. (2009): The Different Cognitive Response of Guqin Music

and Piano Music of Young Chinese: an Event-related Potential (ERP) Study. Australian Neuroscience Society Annual Meeting at Canberra, Australian, January 2009: 831-837. Sec2:141

6. **Zhu W**, ZHANG J, Liu H, Ding X, Ma Y, Zhou C. (2007): The effect of Chinese Guqin music on cognition: an ERP study. Third international workshop of brain and cognition neuroscience at Yunnan, China. November, 2007. Progress in Biochemistry and Biophysics 34: 21.
7. ZHANG J, **Zhu W**, Zhou, C., Ma, Y. (2007): The processing of configural encoding of different topological figures. Third international workshop of brain and cognition neuroscience at Yunnan, China. November, 2007. Progress in Biochemistry and Biophysics 34: 43.
8. ZHANG J, **Zhu W**, Zhou, C., Ma, Y. (2007): Masking effect on different topological visual stimuli. Third international workshop of brain and cognition neuroscience at Yunnan, China. November, 2007. Progress in Biochemistry and Biophysics 34: 153 (abstract).

### **C) Publication without peer review process**

1. **诸薇娜**, : 音乐与脑: 思维的力量, 主编: 马原野等.(云南科学技术出版社), 128-136.  
**Zhu W**, (2009): Music and Brain. In: The Power of the Thinking, Eds. Ma Y. Wang J. and Hu X. (Yunnan: Science and Technology Press), 128-136. (in Chinese)