

CURRICULUM VITAE

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Professional Experience:

2008- present: Assistant Professor, Department of Psychology, Wichita State University, Wichita, KS, USA.

2006- 2008: Post-Doc Researcher, Department of Psychology, University of California, Riverside, CA, USA.

2005- 2006: Visiting Scholar, Key Lab of Cognitive Sciences, Institute of Biophysics, Chinese Academy of Sciences, Beijing, P.R. China.

2001- 2004: Post-Graduate Researcher, Department of Cognitive Sciences, University of California, Irvine, CA, USA.

1996- 2001: Graduate student researcher, Lab of Visual Information Processing, Institute of Biophysics, Chinese Academy of Sciences, Beijing, P.R. China.

Education:

2001 Ph.D. Biophysics

Lab of Visual Information Processing, Institute of Biophysics, Chinese Academy of Sciences, Beijing, P.R. China.

1996 B.S. Physics

Department of Physics, Beijing Normal University, Beijing, P.R. China

Professional Affiliations

Vision Sciences Society

Research Interests

- Visual Perception & Aging
- Cognition & Aging
- Driving & Aging
- Perceptual Learning & Aging
- Human Factors/Engineering Psychology

Teaching

- Research Methods

Publications:

1. Ni, R., Andersen, G. J. (2008) **Detection of Collision Events on Curved Trajectories**, *Perception & Psychophysics*, 70(7), 1314-1324
2. Andersen, G. J., and Ni, R. (2008). **Aging and visual processing: declines in spatial not temporal integration**, *Vision Research*, Vol.48,109-118
3. Kang, J. J., Ni, R., and Andersen, G. J. (2008). **The Effects of Reduced Visibility from Fog on Car Following Performance**, *Transportation Research Record: Journal of the Transportation Research Board*, 2069, 9-15.
4. Ni, R., Kang, J., Andersen, G. J. (2007) **Age-related Driving Performance: Effect of fog under dual-task conditions** *Proceedings of the Fourth International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design*, 365-370
5. Ni, R., Braunstein, M. L., Andersen, G. J. (2007). **Scene layout from ground contact, occlusion and motion parallax**, *Visual Cognition Vol. 15*, 48-68
6. Beer, A. L., Watanabe, T., Ni, R., Sasaki, Y., Andersen, G. J. (2007). **3D Surface Perception from Motion involves the Superior Temporal Sulcus**, *submitted*
7. Ni, R., Andersen, G. J. (2006). **Age Related Performance in Driving: Steering and Collision Detection**, *Vision in Vehicles 11*, Dublin, Ireland, *in press*
8. Ni, R., Braunstein, M. L., Andersen, G. J. (2005). **Distance perception from motion parallax and ground contact**, *Visual Cognition Vol. 12* 1235-1254
9. Ni, R., Andersen, G. J., Rizzo, M. (2005). **Age related decrements in steering control: The effects of landmark and optical flow information**, *Proceedings of the Third International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design*, 144-150
10. Andersen, G. J., and Ni, R. (2005). **The spatial extent of attention during driving**, *Proceedings of the Third International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design*, 395-400
11. Ni, R., Braunstein, M. L., Andersen, G. J. (2004). **Perception of scene layout from optical contact, shadows and motion**, *Perception*, Vol. 33, No. 11 1305-1318
12. Ni, R., Wang, Z., Wu, X., Wang, Y., and Li, D. (2003). **Perception of**

illusory contours enhanced in motion, *Science in China (Series C)*,
Vol.46 No.6 570-583

13. Wang, Z., Ni, R., Wu, X., Wang, Y. (2001). **Binocular Fusion in Panum's Limiting case of Stereopsis Obeys the Uniqueness Constraint**, *Science in China(Series C)*, *Vol. 44 No.1* 136-145
14. Wang, Z., Wu, X., Ni, R. Wang, Y. (2001). **Double Fusion Does Not Occur in Panum's Limiting Case**", *Perception*, *Vol 30, No. 9* 1143 – 1149

Abstracts

15. Ni, R., Andersen, G. J. (2008). **Propagation of Depth from Temporal Inter-ocular Unmatched Features and Binocular Information** [Abstract], *Journal of Vision*, 8(6), 94a, <http://journalofvision.org/8/6/94/>
16. Bower, J. D., Bian, Z., Ni, R., & Andersen, G. J. (2008). **The effect of retinal eccentricity on the discrimination of global motion direction**, *Journal of Vision*, 8(6), 1024a, <http://journalofvision.org/8/6/1024/>
17. Ni, R., Watanabe, T., Andersen, G. J. (2007). **The effect of age on perceptual learning of sub-threshold stimuli** [Abstract], *Journal of Vision*, 7(9):47, <http://journalofvision.org/7/9/47/>
18. Vaux, L. M. Ni, R., Rizzo, M., Uc, E. Y., Andersen, G. J. (2007). **Detection of imminent collisions by drivers with Alzheimer's Disease, Parkinson's Disease and Stroke** [Abstract], *Journal of Vision*, 7(9):533, <http://journalofvision.org/7/9/533/>
19. Ni, R., Chen, L., Andersen, G. J. (2006). **Illusory contours formed by temporal interocular unmatched features** [Abstract], *Journal of Vision*, 6(6), 332a, <http://journalofvision.org/6/6/332/>
20. Bower, J. D., Ni, R., & Andersen, G. J. (2006). **Age-related decrements in the discrimination of global coherent motion** [Abstract], *Journal of Vision*, 6(6), 637a, <http://journalofvision.org/6/6/637/>
21. Ni, R., Andersen, G. J., & Lin, Y. (2005). **Spatio-temporal integration, kinetic occlusion and aging** [Abstract]. *Journal of Vision*, 5(8), 664a, <http://journalofvision.org/5/8/664/>
22. Bower, J. D., Ni, R., & Andersen, G. J. (2005). **Aging and the detection of motion direction in random-dot stimuli** [Abstract]. *Journal of Vision*, 5(8), 663a, <http://journalofvision.org/5/8/663/>
23. Enriquez, A., Ni, R., Bower, J. D., & Andersen, G. J. (2005). **Covert orienting of attention and the perception of heading** [Abstract]. *Journal of Vision*, 5(8), 316a, <http://journalofvision.org/5/8/316/>

24. Ni, R., Braunstein, M. L., & Andersen, G. J. (2004). **Interaction of optical contact, shadows and motion in determining perceived scene layout** [Abstract]. *Journal of Vision*, 4(8), 615a, <http://journalofvision.org/4/8/615/>
25. Ni, R., Braunstein, M. L., Andersen, G. J. (2003). **Interactions of motion parallax and ground contact in specifying distance in a 3-D scene** [Abstract], *Journal of Vision*, 3(9), 17a, <http://journalofvision.org/3/9/17/>

Manuscripts

1. Ni, R., Chen, L., Andersen, G. J. **Temporal Inter-ocular Unmatched Features Induced Qualitative but Not Quantitative Depth Perception**, *in progress*
2. Ni, R., Watanabe, T., Andersen, G. J. **Age-related improvement from perceptual learning of sub-threshold stimuli**, *in progress*