

Curriculum Vitae

Name: Yao Chen

Date of Birth: 28 April 1973

Current Address: SUNY- Optometry, 33 West 42nd street, New York, NY 10036

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Education:

September 1996 - July 2001: Institute of Biophysics, Chinese Academy of Sciences (Beijing, P. R. China), Advisor: Prof. Yuncheng Diao, graduated and Ph.D. degree awarded in June 2001

September 1991 - July 1996: Department of Physiology and Biophysics, College of Life Sciences of Peking University (PKU, Beijing, P. R. China), graduated and B.S. degree awarded in July 1996

Research Experiences:

September 2003 - current: Post-doctoral fellow, Department of Biological Sciences, SUNY-Optometry (New York City, NY), recording the electrophysiological responses of neurons in animals engaged in attentional tasks with implanted multielectrode arrays, Supervisor: Prof. Jose-Manuel Alonso

September 2001 - September 2003: Post-doctoral fellow, Department of Ophthalmology, Mount Sinai School of Medicine (New York City, NY), working on the visual systems of mammals, such as monkeys and cats, to determine the functional organization of the visual cortex of these animals, Supervisor: Prof. Ehud Kaplan

September 1996 - July 2001: Laboratory for Visual Information Processing, Institute of Biophysics, Chinese Academy of Sciences, working mainly focus on visual motion detection in cat visual cortex, such as V1 and PMLS

December 3-16, 2000: IBRO School of Brain Function, Hong Kong, China, learning modern neuroscience techniques, such as neuron-astrocyte co-culture, brain slice culture, confocal microscopy and cytosensor microphysiometer

February 1996 – July 1996: Laboratory for Visual Information Processing, Institute of Biophysics, Chinese Academy of Sciences, research on morphology of NOS-sensitive neuron in visual cortex of the rabbit and cat

Honors and Rewards:

December 3-16, 2000: Fellowship for IBRO School of Brain Function (Asian-Pacific region), Hong Kong, China

Publications:

1. Chen, Y., Li, B.W., Li, B., & Diao, Y.C. (2001)
Directional tunings independent of orientation in the primary visual cortex of the cat. *Science in China (Series C)*, 44(5), 513-523. (Chinese version appeared in 31(4), 371-378.)
2. Li, B., Chen, Y., Li, B.W., Wang, L.H., & Diao, Y.C. (2001)
Pattern motion and component motion selectivity in cortical area PMLS of cat: variable with orientation element in visual stimulus. *European Journal of Neuroscience*, 14(3), 690-700.
3. Li, B., Li, B.W., Chen, Y., Wang, L.H., & Diao, Y.C. (2000)
Response properties of PMLS and PLLS neurons to simulated optic flow patterns. *European Journal of Neuroscience*, 12(5), 1534-1544.
4. Li, B.W., Li, B., Chen, Y., & Diao, Y.C. (2003)
Response properties of cat striate cortex to simulated optic flow stimuli. *Neuroscience Research Communications*, 32(3), 197-210.

Abstracts:

1. Y Chen, S Martinez-Conde, S Macknik, Y Bereshpolova, H Swadlow, J Alonso (2007)
Attentional load modulates the activity of distinct populations of neurons within primary visual cortex.
Program No. 931.18. *2007 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2007. Online.
2. Chen, Y., Martinez-Conde, S., Macknik, S., Alonso, J.-M., & Lee, B. (2007)
Input to cells in macaque V1 revealed with a novel grating stimulus [Abstract]. *Journal of Vision*, 7(15):57, 57a, <http://journalofvision.org/7/15/57/>
3. Y Chen, S Martinez-Conde, S Macknik, Y Bereshpolova, H Swadlow, J Alonso (2006)
Manual reaction time is strongly correlated with the occurrence of reflexive saccades but not with attentional modulations in V1.
Program No. 548.1. *2006 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2006. Online.

4. Y Chen, S Martinez-Conde, S Macknik, Y Bereshpolova, H Swadlow, J Alonso (2005)
Detection difficulty increases neuronal activity in primary visual cortex.
Program No. 286.14. *2005 Abstract Viewer/Itinerary Planner*. Washington, DC:
Society for Neuroscience, 2005. Online.
5. Y Chen, S Martinez-Conde, S Macknik, H Swadlow, J Alonso (2004)
Task difficulty modulates neuronal activity in primary visual cortex.
Program No. 175.7. *2004 Abstract Viewer/Itinerary Planner*. Washington, DC:
Society for Neuroscience, 2004. Online.
6. Y Chen, E Dinnerstein, Y Xiao, A Sornborger, E Kaplan (2003)
The function of stimulus contrast vs. response amplitude of the intrinsic optical
signal in the cat visual cortex.
Program No. 69.18. *2003 Abstract Viewer/Itinerary Planner*. Washington, DC:
Society for Neuroscience, 2003. Online.
7. A Cimponeriu, Y Chen, E Dinnerstein, E Kaplan (2002)
Multi-wavelength optical imaging of the cat visual cortex.
Invest. Ophthalmol. Vis. Sci. (ARVO Abstracts) 2002 43: E-Abstract 4750.
8. E Kaplan, E Dinnerstein, Y Chen, T Yokoo, V Brodsky, L Sirovich (2002)
The contrast dependence of the intrinsic optical signal in the cat visual cortex.
Invest. Ophthalmol. Vis. Sci. (ARVO Abstracts) 2002 43: E-Abstract 4749.
9. Y Chen, B Li, BW Li, YC Diao (2000)
A family of novel stimuli revealed two types of directional tuning of single neurons in
V1 and PMLS of the anesthetized cat.
Federation of Asian-Oceanian Neuroscience Societies (FAONS) Abstracts
10. BW Li, B Li, Y Chen, YC Diao (2000)
Response of neurons in the anesthetized cat's visual cortex to optic flow.
Federation of Asian-Oceanian Neuroscience Societies (FAONS) Abstracts

Scientific Conferences Attended:

1. Society of Neuroscience's 37th Annual Meeting (SFN), San Diego, CA, USA,
November 2007, Poster presented
2. OSA Fall Vision Meeting, Berkley, CA, USA, September 2007, Poster presented
3. Society of Neuroscience's 36th Annual Meeting (SFN), Atlanta, GA, USA,
November 2006, Poster presented

4. Society of Neuroscience's 35th Annual Meeting (SFN), Washington, DC, USA, November 2005, Poster presented
5. Society of Neuroscience's 34th Annual Meeting (SFN), San Diego, CA, USA, November 2004, Poster presented
6. Society of Neuroscience's 33rd Annual Meeting (SFN), New Orleans, LA, USA, November 2003, Poster presented
7. Association of Research in Vision and Ophthalmology Meeting (ARVO), Fort Lauderdale, FL, USA, May 2002, Poster presented
8. Beijing-Tamagawa Fifth International Dynamic Brain Forum, Beijing, China, September 2000
9. The First Neuroinformatics Symposium of China, Haikou, China, November 2000, Abstract submitted
10. Federation of Asian-Oceanian Neuroscience Societies (FAONS) 2000 & The 20th Scientific Meeting of The Hong Kong Society of Neurosciences, Hong Kong, China, December 2000, Poster presented