

Curriculum Vitae

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Assistant Professor

May 14, 2014

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Education

PhD	McGill Vision Research Division of Neuroscience, Department of Neurology and Neurosurgery, McGill University, Montreal, Canada.	09/2002-10/2007
Master of Science	Institute of Psychology National Chung-Cheng University Chia-Yi, Taiwan	09/1998 – 01/2001
Bachelor of Science	Psychology Department National Chung-Cheng University Chia-Yi, Taiwan	09/1994 – 06/1998

Research Experience

Post-doctoral research fellow	McGill Vision Research McGill University, Montreal, Canada Supervisor: Prof. Robert F. Hess.	03/2010-01/2012
Post-doctoral research fellow	Department of Psychology National Taiwan University Taipei, Taiwan Supervisor: Prof. C.C. Chen.	01/2008–01/2010
Consultant	Aviation Physiology Research Laboratory Gangshan Armed Forces Hospital Kaoshiung, Taiwan	05/2008-01/2010
Full-time Research Assistant	Institute of Applied Arts National Chiao Tung University HsinChu, Taiwan	03/2002-07/2002
Full-time Research Assistant	Department of Medical Research and Education. Veterans General Hospital in Taipei Taipei, Taiwan	04/2001–02/2002

Part-time Research Assistant	Department of Psychology, National Chung-Cheng University Chia-Yi, Taiwan	10/1998 - 03/2001
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Teaching Experience

Adjunct Assistant Professor	Department of Applied Psychology Hsuan Chuang University HsinChu, Taiwan Course: Method in Experimental Psychology	09/2008-01/2009
Teaching Assistant	Department of Psychology, National Chung-Cheng University Chia-Yi, Taiwan Courses: Psychology of Perception, Psychological Testing	09/1998 - 06/1999

Publication

Journal Articles

- Huang, P. C.,** & Chen, C.C. (2014). A comparison of pedestal effects in first- and second-order patterns. *J Vis*, Jan 10:14(1).
- Zhou, J., **Huang, P. C.,** & Hess, R. F. (2013). Interocular suppression in amblyopia for global orientation processing. *J Vis*, April 22;13(5):19 1–14.
- Huang, P. C., Baker, D. H., & Hess, R. F. (2012). Interocular suppression in normal and amblyopic vision: Spatio-temporal properties. *J Vis*, 12(11).
- Husk, J.S., **Huang, P.C.,** & Hess, R.F. (2012). Orientation coherence sensitivity. *J Vis*, 12(6):18,1-15.
- Huang, P. C.,** Chen, C.-C., & Tyler, C.W. (2012). Collinear facilitation over space and depth. *J Vis*, 12(2):20, 1-9.
- Huang, P.C.,** Maehara, G., May, K. A. & Hess, R. F. (2012). Pattern masking: the importance of remote spatial frequencies and their phase alignment. *J Vis*, 12(2):14, 1-13.
- Chen, Y.-C., **Huang, P.C.,** Yeh, S.-L., & Spence, C. (2011). Synchronous sounds enhance visual sensitivity without reducing target uncertainty. *Seeing and Perceiving*, 24,623-638.
- Maehara, G., **Huang, P.C.,** & Hess, R. F. (2010). The effects of flankers on contrast detection and discrimination in binocular, monocular, and dichoptic presentation. *J Vis*, 10(4): 13, 1–15.
- Maehara, G., **Huang, P.C.,** & Hess, R. F. (2009). The importance of phase alignment for interocular suppression. *Vision Res*, 49(14): 1838–1847.
- Hess, R. F., **Huang, P.C.,** & Maehara, G. (2009). Spatial distortions produced by purely binocularly-based visual motion. *Perception*, 38(7):1012-1018.
- Aaen-Stockdale, C. R., Thompson, B., **Huang, P.C.,** & Hess, R. F. (2009). Low-level mechanisms may contribute to paradoxical motion percepts. *J Vis*, 9(5):9, 1-14.

- Huang, P. C., & Chen, C.-C.** (2009). Pattern masking investigations of the 2nd-order visual mechanisms. *Proc. SPIE*, Vol. 7240, 724016.
- Huang, P. C., & Hess, R. F.** (2008). The Dynamics of Collinear Facilitation: fast but sustained. *Vision Res*, 48(27): 2715-2722.
- Huang, P. C., & Hess, R. F.** (2007). Collinear facilitation: Effect of additive and multiplicative external noise. *Vision Res*, 47(24): 3108-3119.
- Huang, P. C., Mullen K. T., & Hess, R. F.** (2007). Collinear facilitation in color vision. *J Vis*, 7(11): 61-14.
- Huang, P. C., Hess, R. F., & Dakin, S. C.** (2006). Flank facilitation and contour integration: different sites. *Vision Res*, 46(21): 3699-3706.
- Huang, P. C., Kingdom, F. A., & Hess, R. F.** (2006). Only two phase mechanisms, +/-cosine, in human vision. *Vision Res*, 46(13): 2069-2081.

Conference Abstracts

- Huang, P. C., Hess, R. F.** (2013). Dynamic properties in interocular suppression: the effects of sharp edges. The Asia-Pacific Conference on Vision, Suzhou, China.
- Huang, P. C., Hess, R. F.** (2013). Dynamic properties in broadband pattern masking: Comparison between monocular, binocular and dichoptic viewing conditions[[Abstract](#)]. *Journal of Vision*, 13(9): 551.
- Huang, P.C., Li, J., Deng, D., Yu, M., & Hess, R.F.** (2012). Asynchrony detection in amblyopes. Asia-Pacific Conference on Vision, Incheon, Korea.
- Huang, P.C., & Hess, R. F.** (2012). Dynamic dichoptic masking: luminance vs. contrast. Visoin Science Society, Naples, FL. USA.
- Huang, P.C., Maehara, G., & Hess, R. F.** (2010). A role of spatial alignments in early vision. *Journal of Vision*, 10(15):37.
- Huang, P.C., Maehara, G., & Hess, R. F.** (2010). A role of spatial alignments in early vision. [[Abstract](#)]. *Journal of Vision*, 10(15):37.
- Huang, P. C., Chen, C.-C., & Tyler, C.** (2010). Collinear facilitation is recovered across disparities by embedding in a slanted surface [[Abstract](#)]. *Journal of Vision*, 10(7):1181.
- Huang, P. C., & Chen, C.-C.** (2009). A comparison of the pedestal effects in the 1st- and 2nd-order patterns [[Abstract](#)]. *Journal of Vision*, 9(8):1011.
- Maehara, G, **Huang, P. C.**, & Hess, R. F. (2008). The effect of flankers on TvC functions in binocular, monocular, and dichoptic presentations [[Abstract](#)]. *Journal of Vision*, 8(17):68.
- Huang, P. C., & Hess, R. F.** (2008). Dynamics of Collinear facilitation: fast yet sustained. [[Abstract](#)] *Journal of Vision*, 8(6):272.
- Maehara, G, **Huang, P.-C.**, & Hess, R. F. (2008). The importance of static phase-aligned, high spatial frequency components for continuous flash suppression [[Abstract](#)]. *Journal of Vision*, 8(6):241.

- Huang, P. C., & Hess, R. F. (2007).** Collinear facilitation: effects of additive and multiplicative visual noise. [[Abstract](#)] *Journal of Vision*, 7 (9):250.
- Huang, P. C., Mullen, K. T., & Hess, R. F. (2006).** Flank Facilitation for Isoluminant Chromatic Stimuli. [[Abstract](#)] *Journal of Vision*, 6(6): 223.
- Huang, P. C., Hess, R. F., & Kingdom, F. A. A. (2005).** Labelled lines for phase? [[Abstract](#)] *Journal of Vision*, 5(8): 185.
- Huang, P. C., Hess, R. F., & Dakin, S. C. (2004).** Different sites for lateral facilitation and contour integration. [[Abstract](#)] *Journal of Vision*, 4(8): 781.
- Huang, P. C., Chen, I., & Lee, I.P. (2001).** Multiple spatial-frequency channels for the detection of orientation modulation patterns. [[Abstract](#)] *Perception*, ECV01 Suppl.
- Huang, P. C., & Chen, I. (2000).** Multiple channels for 2nd-order edge detection. Paper presented at the Annual Meeting of the Chinese Psychology Association, Taipei, Taiwan.
- Huang, P. C., & Chen, I. (1999).** The mechanism of 2nd-order edge detection. Paper presented at the Annual Meeting of the Chinese Psychology Association, Taipei, Taiwan.

Thesis

- Huang, P.-C. (2007).** The properties of collinear facilitation in human vision. PhD Dissertation.
Supervisor: Dr. Robert F. Hess
- Huang, P.-C. (2001).** The filtering properties of 2nd-order texture mechanism. Master's thesis. Supervisor:
Dr. I-Ping Chen

Fellowship & Awards

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|---|------------------|
| Scholarship from Ministry of Education, Taiwan, R.O.C. (93 學年度 教育部留學獎學金) (USD 25,000/yr) | 10/2005– 09/2007 |
| Su Shiangyu Award for the master thesis (蘇薌雨論文獎-碩士論文) | 2001 |

Grant

年度	補助類別	學門分類	計畫名稱	核定經費 (新台幣)
102	短訪計畫 (邀請國際科技人士短期訪問)	實驗及認知心理學	Lothar Spillmann	
102	專題研究計畫 (新進人員研究)	心智科學腦影像研究	雙眼視覺：機制，限制條件與影響--子計畫三：弱視與正常組的雙眼整	2,380,000

	計畫)		合作用機制	
101	專題研究計畫 (新進人員研究 計畫)	心理學理論 與方法學	多空間頻率的遮蔽效果:正常組與弱 視組在單眼，雙眼與雙眼分視下的 作用機制比較	2,012,000
98	國內專家學者 出席國際學術 會議	實驗及認知 心理學	2009 Vision Sciences Society 9th Annual Meeting	80,000

Courses

心理學概論(通識)

心理學實驗法

藝術心理學

心理物理學

看見的原則:從完形心理學的角度出發

感覺與知覺

高等視知覺