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Webpage: <http://www.psy.cuhk.edu.hk/~mael>

**EDUCATION**

- Ph.D., Department of Psychology, 2007  
Vanderbilt University, Nashville, Tennessee, USA  
Supervisors: Isabel Gauthier, Thomas J. Palmeri
- M. Phil., Department of Psychology, 2001  
The Chinese University of Hong Kong, Hong Kong SAR  
Supervisor: William G. Hayward
- B.S.Sc., Department of Psychology, 1999  
The Chinese University of Hong Kong, Hong Kong SAR  
Supervisor: Tin-Cheung Chan

**PROFESSIONAL EXPERIENCE**

- Associate Professor, Department of Psychology, Chung Chi College, The Chinese University of Hong Kong, 08/2013-present.
- Assistant Professor, Department of Psychology, Chung Chi College, The Chinese University of Hong Kong, 08/2007-08/2013.

**PROFESSIONAL SOCIETIES**

- Member, Vision Sciences Society, since 01/2002
- Member, Association for Psychological Science, since 01/2006

## **TEACHING**

### **Courses taught**

- General Psychology
- Consciousness
- Experimental Design
- Sensation and Perception

## **POSTGRADUATE SUPERVISION**

### **Graduated Students**

- Supervisor, Siu Yat Fan Nicholson, 06/2013-07/2015, PhD; started lecturer job at Hong Kong Shue Yan University in 2015
- Supervisor, Tong Ki Aiden, 08/2012-07/2014, MPhil; started master study at the University of Edinburgh, Scotland, in 2014
- Supervisor, Lui Fai Hong Kelvin, 08/2011-07/2013, MPhil; 08/2013-07/2016, PhD; started postdoc position at the Department of Psychology, The Chinese University of Hong Kong in Aug 2016.
- Co-Supervisor, Yang Lizhuang, 08/2009-07/2012, PhD; started postdoctoral fellow job at the University of Science and Technology of China in 2012
- Co-Supervisor, Qu Zhiyi, 08/2008-07/2011, PhD; started instructor job at Tianjin Medical University, China in 2011

### **Current Students**

- Supervisor, Fan Pu, 08/2016-07/2018, MPhil
- Supervisor, Ngan Siu Hin Vince, 08/2014-07/2016, MPhil; 08/2016-07/2019, PhD
- Supervisor, Ng Yuen King Terri, 08/2015-07/2017, MPhil
- Co-Supervisor, Zeng Qinghong Ginger, 08/2015-07/2018, PhD

## **UNDERGRADUATE SUPERVISION**

### **Undergraduate Thesis Supervision**

- Fan, Pu (2015/16)

- Ng, Wai Wai (2013/14)
- Ngan, Siu Hin Vince (2012/13)
- Chau, Pui Kwan Quinnie (2011/12)
- Lui, Fai Hong Kelvin (20010/11)
- Chan, Shing Yu John (2009/10)

### **MAIN RESEARCH INTERESTS**

- Effect of expertise on perception and cognition (face recognition, letter recognition, music reading, sports training, internet and electronic device usage, culture, etc.)
- The relationship between perception and consciousness

### **LIST OF RESEARCH OUTPUTS OR CREATIVE WORKS**

(Names of myself and students and research staff I supervise in bold)

#### **Refereed Publications**

1. **Wong, A.C.-N.**, Wong, Y.K., **Ng, T.Y.K.**, & **Ngan, V.S.H.** (submitted). Sensitivity to configural information in words predicts word recognition fluency.
2. Wong, Y.K., & **Wong, A.C.-N.** (2016). Music-reading training alleviates crowding with musical notation. *Journal of Vision*, 16, 15.
3. Zhao, M., Cheung, S., **Wong, A.C.-N.**, Rhodes, G., Chan, E.K.S., Chan, W.W.L., & Hayward, W.G. (2014). Processing of configural and componential information in face-selective cortical areas. *Cognitive Neuroscience*, 5(3-4), 160-167.
4. **Wong, A.C.-N.**, & Wong, Y.K. (2014). Interaction between perceptual and cognitive processing well acknowledged in perceptual expertise research. *Frontiers in Human Neuroscience*, 8:308. doi: 10.3389/fnhum.2014.00308
5. Davitt, L.I., Cristino, F., **Wong, A.C.-N.**, & Leek, E.C. (2014). Shape information mediating basic- and subordinate-level object recognition revealed by analyses of eye movements. *Journal of Experimental Psychology: Human Perception and Performance*, 40(2), 451-456.
6. Wong, Y.K., & **Wong, A.C.-N.** (2014). Absolute pitch memory: Its prevalence among musicians and dependence on the testing context. *Psychonomic Bulletin and Review*, 21(2), 534-542.

7. **Chen, H.**, Bukach, C.M., & **Wong, A.C.-N.** (2013). Early electrophysiological basis of experience-associated holistic processing of Chinese characters. *PLoS ONE*, 8(4), e61221.
8. **Wong, A.C.-N.**, Bukach, C.M., Hsiao, J., Greenspon, E., Ahern, E., Duan, Y., & **Lui, K.F.H.** (2012). Holistic processing as a hallmark of perceptual expertise for non-face categories including Chinese characters. *Journal of Vision*, 12(13):7, 1-5.
9. **Lui, F.H.**, & **Wong, A.C.-N.** (2012). Does media multitasking always hurt? A positive correlation between multitasking and multisensory integration ability. *Psychonomic Bulletin and Review*, 19(4), 647-653.
10. Zhou, G., Cheng, Z., Zhang, X., & **Wong, A.C.-N.** (2012). Smaller holistic processing of faces associated with face drawing experience. *Psychonomic Bulletin and Review*, 19(2), 157-162.
11. **Chan, J.S.Y.**, **Wong, A.C.-N.**, Yu, J., & Yan, J.H. (2011). Fencing Expertise and Physical Fitness Enhance Action Inhibition. *Psychology of Sport and Exercise*, 12(5), 509-514.
12. **Wong, A.C.-N.**, Bukach, C.M., **Yuen, C.**, **Yang, L.**, Leung, S., & Greenspon, E. (2011). Holistic processing of words modulated by reading experience. *PLoS ONE*, 6(6), e20753.
13. **Wong, A.C.-N.**, **Qu, Z.**, McGugin, R.W., & Gauthier, I. (2011). Interference in character processing reflects common perceptual expertise across writing systems. *Journal of Vision*, 1(15), 1-8.
14. Gauthier, I., **Wong, A.C.-N.**, & Palmeri, T.J. (2010). Manipulating visual experience: Comment on Op de Beeck and Baker. *Trends in Cognitive Sciences*, 14(6), 235-236.
15. **Wong, A.C.-N.**, Palmeri, T.J., Rogers, B.P., Gore, J.C., & Gauthier, I. (2009). Beyond Shape: How You Learn about Objects Affects How They Are Represented in Visual Cortex. *PLoS ONE*, 4(12), e8405.
16. **Wong, A.C.-N.**, Palmeri, T.J., & Gauthier, I. (2009). Conditions for face-like expertise with objects: Becoming a Ziggerin expert – but which type? *Psychological Science*, 20(9), 1108-1117.
17. Mack, M.L., **Wong, A.C.-N.**, Gauthier, I., Tanaka, J.W., Palmeri, T.J. (2009). Time-course of visual object categorization: Fastest does not necessarily mean first. *Vision Research*, 49, 1961-1968.
18. Richler, J.J., Cheung, O.S., **Wong, A.C.-N.**, Gauthier, I. (2009). Does response interference contribute to face composite effects? *Psychonomic Bulletin and Review*, 16(2), 258-263.

19. **Wong, A.C.-N.**, Jobard, G., James, T. W., James, K. H., & Gauthier, I. (2009). Expertise with characters in alphabetic and non-alphabetic writing systems engage the same occipito-temporal area. *Cognitive Neuropsychology*, 26(1), 111-127.
20. **Wong, A.C.-N.**, & Gauthier, I. (2007). An analysis of letter expertise in a levels-of-categorization framework. *Visual Cognition*, 15(7), 854-879.
21. Gauthier, I., **Wong, A.C.-N.**, Hayward, W.G., & Cheung, O.S. (2006). Font tuning associated with expertise in letter perception. *Perception*, 35(4), 541-559.
22. **Wong, A.C.-N.**, Gauthier, I., Woroch, B., Debusse, C., & Curran, T. (2005). An early electrophysiological potential associated with expertise in letter perception. *Cognitive, Affective, and Behavioral Neuroscience*, 5(4), 306-318.
23. James, K.H., James, T.W., Jobard, G., **Wong, A.C.-N.** & Gauthier, I. (2005). Letter processing in the visual system: different activation patterns for single letters and strings. *Cognitive, Affective, and Behavioral Neuroscience*, 5(4), 452-466.
24. Hayward, W.G., **Wong, A.C.-N.**, & Spehar, B. (2005). When are viewpoint costs greater for silhouettes than for shaded images? *Psychonomic Bulletin & Review*, 12, 321-327.
25. **Wong, A.C.-N.**, & Hayward, W.G. (2005). Constraints on view combination: Effects of self-occlusion and difference between familiar views. *Journal of Experimental Psychology: Human Perception & Performance*, 31, 110-121.
26. Palmeri, T.J., **Wong, A.C.-N.**, & Gauthier, I. (2004). Computational approaches to the development of perceptual expertise. *Trends in Cognitive Sciences*, 8, 378-386.

### **Books/Book Chapters Authored**

1. **黃振能**、李雅言、謝志成、伍斐然、黃桂玲、王茜（2012）。學心理識教子 – 有根有據培育良方。香港：商務印書館。(My contribution: 20%)
2. **黃振能**（2011）。從一張臉可以看見什麼？載於（王淑英，馮應謙，蔡子強），八度空間- 社會科學的視角（150-154 頁）。香港：中大社會科學院。
3. James, K.H., **Wong, A.C.-N.**, Jobard, G. (2009). The case for letter expertise. In I. Gauthier, D. Bub, & M.J. Tarr (Eds), *Perceptual Expertise: Bridging Brain and Behavior*, Oxford University Press.

### **Conference proceedings**

1. Kung, C.-C., Cheng, J.-T., Wong, Y., & **Wong, A.** (2015). Alternation between- and

- within-class selectivity across the ventral occipital cortex: evidence by region-of-interest and whole-brain multi-voxel pattern analyses. Poster presented at the 11th Asia-Pacific Conference on Vision, July 10-12, 2015, Singapore.
2. **Ng, Y.K., Ngan, S.H., & Wong, A.C.-N.** (2015). Differences in Sensitivity to Configural Information Predicts Word Recognition Fluency. Poster presented at the Vision Sciences Society Meeting 2015, May 15-20, St. Pete Beach, FL. USA.
  3. **Ngan, S.H., Ng, Y.K., & Wong, A.C.-N.** (2015). Interference between Holistic Processing of English and Chinese Words. Poster presented at the Vision Sciences Society Meeting 2015, May 15-20, St. Pete Beach, FL. USA.
  4. Wong, Y.K., & **Wong, A.C.-N.** (2014). Music-reading training alleviates crowding with musical notation. *Journal of Vision*.
  5. **Wong, A.C.-N.,** & Wong, Y.K. (2014). Discrimination detail as an organizing principle in the human ventral occipito-temporal cortex for object recognition. *Journal of Vision*.
  6. Bukach, C.M., Sohner, T.A., **Wong, A.C.-N.,** & Peissig, J.J. (2013). Birds of a feather flock together: For novices, not experts. *Journal of Vision*, 13(9), 664.
  7. **Lui, K.F.-H., & Wong, A.C.-N.** (2013). Does the disadvantage of media multitaskers in task switching lie in the change of cue or task? *Journal of Vision*, 13(9), 649.
  8. **Qu, Z., & Wong, A.C.-N.** (2011). Holistic processing happens at later, task-specific stages of face processing. *i-Perception*, 2(4), 241.
  9. **Wong, A.C.-N.,** Bukach, C.M., **Yuen, W.S., Yang, L.,** Leung, S., & Greespon, E. (2011). Holistic processing of Chinese characters. *i-Perception*, 2(4), 346.
  10. **Wong, A.C.-N.,** Bukach, C.M., **Yuen, W.S.,** Leung, S., & Greespon, E. (2011). Holistic processing of words. *Journal of Vision*, 11(11), 873.
  11. **Qu, Z., Wong, A.C.-N.,** McGugin, R.W., & Gauthier, I. (2010). Is there a functional overlap between the expert processing of characters from alphabetic and non-alphabetic writing systems? *Journal of Vision*, 10(7), 951.
  12. **Wong, A.C.-N.,** Palmeri, T.J., Rogers, B., Gore, J., & Gauthier, I. (2009). Experience can determine category selectivity in the visual system. *Journal of Vision* 9(8), 794.
  13. **Wong, A.C.-N.,** Palmeri, T.J., & Gauthier, I. (2008). Individuation training but not categorization training leads to configural processing of non-face objects. *Journal of Vision*, 8(6), 883.
  14. Mack, M.L., **Wong, A.C.-N.,** Gauthier, I., Tanaka, J., & Palmeri, T.J. (2007). Unraveling the time course of perceptual categorization: Does fastest mean first? *Proceedings of the Twenty Ninth Annual Meeting of the Cognitive Science Society*, 1253-1258.  
[Times cited: 10 (Google Scholar)]

15. Mack, M.L., **Wong, A.C.-N.**, Gauthier, I., & Palmeri, T.J. (2006). The time course of visual object detection and categorization. *Journal of Vision*, 6(6), 608
16. **Wong, A.C.-N.**, Palmeri, T.J., Gauthier, I., & Tanaka J.W. (2005). The time-course of basic-and subordinate-level categorization of faces and objects. *Journal of Vision*, 5(8), 529.
17. **Wong, A.C.-N.**, & Gauthier, I. (2003). Font tuning differentiates experts and novices in letter recognition. *Journal of Vision*, 3(9), 809.

## **RESEARCH GRANTS**

### *Competitive Grants*

1. Principal Investigator “Revealing the limitations underlying multitasking performance in different paradigms”, General Research Fund (GRF) of the Research Grants Council, 01/09/2016 – 31/08/2017, HK\$ 548,000.
2. Co-Investigator (Prof. Cheng-Ta Yeung as PI), “Visual word processing modulated by reading experience”, Rising-Star Top-Notch Project, National Cheng Kung University, Taiwan, 01/03/2015 – 31/08/2016, USD 60,000.
3. Principal Investigator (Yetta Wong as Co-I) “Drawing a causal relationship between perceptual training with musical notes and activity changes in the visual cortex”, General Research Fund (GRF) of the Research Grants Council, 01/01/2015 – 30/09/2017, HK\$ 1,054,490.
4. Co-Investigator (Prof. Hui Lin as PI), “Geographic Process Models and Dynamic Decision Making based Geo-spatial Cognition Research”, Research Fund of National Natural Science Foundation of China, 01/01/2012 – 31/12/2015, RMB 600,000  
聯合申請人（申請人：林瑋教授），「基於地理過程感知與動態決策行為模型的地理空間認知環」，國家自然科學基金委員會面上項目，01/01/2012 – 31/12/2015，60 萬元人民幣
5. Principal Investigator (Xingshan Li and Yetta Wong as Co-Is), “Neural Mechanisms Underlying Holistic Processing of Chinese Characters”, Research Fund of State Key Laboratory at the Institute of Psychology, Chinese Academy of Science, 01/10/2011 – 30/09/2013, RMB 50,000

申請人（李興珊及黃桂玲為聯合申請人），「漢語詞作為整體進行加工的神經機制」，中國科學院心理研究所行為科學重點實驗室開放課題基金重點項目，01/10/2011 – 30/09/2013，5 萬元人民幣

6. Principal Investigator, “Functional Architecture of the Human Ventral Visual Pathway for Object Recognition”, General Research Fund (GRF) of the Research Grants Council, 01/08/2011 – 31/07/2014, HK\$ 1,036,456
7. Principal Investigator (Cindy Bukach as Co-I), “Understanding Human Expertise in Visual Character Perception”, General Research Fund (GRF) of the Research Grants Council, 01/09/2009 – 31/08/2011, HK\$ 810,700

#### *Non-Competitive Grants*

1. Principal Investigator (Yetta Wong as Co-I), “Unraveling neural changes underlying expertise in music reading”, CUHK Direct Grant, 16/01/2012-15/01/2014, HK\$ 29,000
2. Principal Investigator, “The role of discrimination detail in the organization of visual object cortex”, CUHK Direct Grant, 01/01/2010-31/12/2011, HK\$ 55,000
3. Principal Investigator (Cindy Bukach as Co-I), “Behavioral phenomena associated with expertise in character perception”, CUHK Direct Grant, 01/08/2008-31/07/2010, HK\$ 39,000

#### **AWARDS AND HONORS**

- Exemplary Teaching Award, Faculty of Social Science, The Chinese University of Hong Kong, 03/2010
- Focused Investment Scheme – Tier Two (C) of Scheme D (One-off Support), The Chinese University of Hong Kong, 04/2012, HK\$50,000

#### **EDITORSHIP**

- Consulting Editor, Journal of Experimental Psychology: Human Perception and Performance, 01/2011–present
- Review Editor, Frontiers in Cognitive Science, 07/2010–present
- Reviewer for research grant proposals: Israel Science Foundation (04/2015)
- Reviewer for Asian Journal of Social Psychology, Biological Psychology, Brain and Cognition, Brain and Language, British Journal of Psychology, Cahiers de Psychologie



(Current Psychology of Cognition), Cerebral Cortex, Cognition, Cognitive Neurophysiology, Developmental Psychology, Frontiers in Cognitive Science, Frontiers in Human Neuroscience, Human Brain Mapping, International Journal of Behavioral Development, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Human Perception and Performance, Journal of Memory and Language, Journal of Neuroscience, Journal of Vision, Memory and Cognition, NeuroImage, Neuropsychologia, Perception/iPerception, Perception and Psychophysics, Perceptual and Motor Skills, PLoS ONE, Psychological Science, Psychonomic Bulletin and Review, Quarterly Journal of Experimental Psychology, Visual Cognition

### **INVITED PRESENTATIONS/ LECTURES**

- “EEG studies of perceptual expertise”, Workshop on EEG/ERPs in Language and Face Cognition: New Methods and Findings, Department of Physics, Hong Kong Baptist University, 21/01/2015.
- “From faces to words, characters, and Ziggerins – Investigating category specification in the object recognition system”, Department of Psychology, National Cheng Kung University, 09/12/2013
- “How does the internet change our cognition?”, The Asia-Pacific Institute of Business, The Chinese University of Hong Kong, 24/12/2012
- “Holistic processing of English words and Chinese characters”, Institute of Psychology, Chinese Academy of Science, Beijing, China, 20/04/2011
- “Holistic processing of English words and Chinese characters”, Department of Psychology, The University of Hong Kong, 21/07/2010
- “From faces to Ziggerins: Understanding the organization of human visual cortex”, Department of Psychology, Sun Yat-Sen University, 29/12/2009
- “Cognitive neuroscience of object recognition”, City University of Hong Kong, 20/11/2009
- “Recreating face-like expertise in the laboratory: What is necessary?”, Department of Psychology, University of Macau, 08/12/2008
- “Configural processing of non-face objects as a result of individuation training but not categorization training”, Symposium on Expertise Effects in Face Processing at the Asia-Pacific Conference on Vision, 18/07/2008

- “The effect of different training experiences on visual object recognition”, School of Humanities and Social Sciences, Nanyang Technological University, Singapore, 25/03/2008
- “The effect of different training experiences on activity in the ventral object processing system”, Department of Psychology, The University of Hong Kong, 06/11/2007

### **CONFERENCE ORGANIZATION**

- Organizing Committee Member, Asia-Pacific Conference on Vision, Hong Kong 15-18/07/2011
- Organizer, Hong Kong Vision Meeting, Hong Kong, 07/11/2009

### **INTERNAL SERVICE**

#### **Faculty**

- Member, Faculty Committee on Teaching and Learning, 08/2013-present
- Member, Faculty Publications Committee, 08/2009-present
- Member, Faculty Admissions Committee, 08/2009-07/2013

#### **Department**

- Member, Department Academic Personnel Committee, 08/2015-present
- Chair, Department Curriculum Committee, 09/2013-present
- Member, Department Graduate Panel, 09/2010-08/2011, 09/2013-present
- Member, Department Executive Committee, 09/2008-08/2009, 09/2011-08/2012, 09/2013-present
- Member, Department Curriculum Committee, 09/2008-present
- Member, Department Student Admission Committee, 09/2007-present
- Member, Department Alumni Committee, 09/2007-present
- Chair, Department Student Admission Committee, 09/2009-08/2013
- Member, Department Student Consultation Committee, 09/2008-08/2013

- Member, Ad hoc Committee for Department's 30<sup>th</sup> Anniversary Celebration, 09/2011-08/2012

### **College/ University**

- Member of the University's Learning Management System Review Committee, 2015/16
- Member of the Working Group on Siu Lien Ling Wong Visiting Fellow 2015/16, Chun Chi College, 12/2015-03/2016
- Tutor for General Education Course GECC 0113 "Idea of a University", Chung Chi College 09/2008-12/2010; 09/2013-12/2013
- Group discussion leader on Inauguration Ceremony Day, Chung Chi College, 08/2008-present
- Instructor for the "Quantitative Research Method Workshop – Experimental Design", Centre for Learning Enhancement and Research, 10/2008-10/2010
- Member of the Staff Table-Tennis Team, Chung Chi College, 09/2007-08/2008

### **EXTERNAL SERVICE**

- Consultation on criminal cases under the Trade Descriptions Ordinance for the Hong Kong Customs and Excise Department, 09/2014 – 03/2015.
- Public Talk
  - Seminar speaker (Using psychology to increase learning efficiency; 活用心理學提升學習效率; together with Prof. Louis Lee and Prof. Yetta Wong), The Commercial Press (H.K.) Ltd., 12/08/2012
  - Public talk speaker (The key to learning; 學習的竅門), Science Museum and Hong Kong Brain Foundation, 14/07/2012
- Column contributor, Ming Pao's education magazine (教得樂), 02/2010-04/2011
- External Assessor for Academic Staff Promotion
  - Hong Kong Shue Yan University, 2015
- External Examiner for Postgraduate Thesis
  - PhD, The University of New South Wales, 2015
  - MPhil, The Hong Kong Polytechnic University, 2015

- MPhil, University of Hong Kong, 2009
- Interviews:
  - Men's Journal, 04/2014
  - TVB (智激校園), 04/2013
  - TVB Pearl Report, 09/2012
  - South China Morning Post, 02/09/2012
  - Hong Kong Economic Times, 08/2012
  - RTHK Radio 5 (笑容從家開始), 30/07/2012
  - South China Morning Post, 22/07/2012
  - BBC News Website, 04/2012
  - Sun Daily, 01/2012, 02/2012
  - Sing Tao Daily, 06/2010
  - We Love Hong Kong Association, 11/2009
  - Ming Pao Weekly, 09/2009
  - Temporal Dynamics Learning Center Newsletter "On Time", 2009
  - Varsity, 09/2010