

TAI-LI CHOU

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EDUCATION

2003 – 2005. Department of Communication Sciences and Disorders, Northwestern University, USA

Post-doc projects: Neural development of language processing, using functional MRI (fMRI) to study visual and auditory semantic judgments in children; Implicit learning of Chinese characters using semantic and phonological methods (event-related fMRI).

1999 – 2003. Medical Research Council, Cognition and Brain Sciences Unit, Cambridge University, UK

Ph.D. thesis: Approaching the issue as to whether a dual-route model of reading can be explored from comparing the role of phonology in reading alphabetic and logographic scripts, using fMRI and behavioural methods with priming paradigms.

1998 – 1999. Department of Cognitive Sciences, University of California at Irvine, USA

Ph.D. project: Speech production between English and Chinese

1991 – 1993. Department of Psychology, National Taiwan University, Taipei, Taiwan

M.S. thesis: Frequency effect during visual word recognition in Chinese

1987 – 1991. Department of Psychology, National Taiwan University, Taipei, Taiwan

B.A. graduate rank: 2nd among 45 graduates

AWARDS & HONORS

2015 – 2016. Fulbright-Formosa Plastics Group Grant, Department of Communication Sciences and Disorders, University of Texas at Austin

2014 – 2015. Excellency Award (特殊優秀人才), National Taiwan University

2013 – 2014. Excellency Award (特殊優秀人才), National Taiwan University

2012 – 2013. Excellency Award (特殊優秀人才), National Taiwan University

2010 – 2011. Distinguished Teaching Award of General Education, National Taiwan University

2008 – 2009. Distinguished Teaching Award of General Education, National Taiwan University

2007 – 2010. Ta-You Wu Memorial Award (吳大猷先生紀念獎), National Science Council of Taiwan

1999 – 2002. Cambridge Overseas Trust Scholarship, Cambridge University

1999 – 2002. Overseas Research Student Award, British Government

1998 – 1999. Fulbright Scholarship, Department of Cognitive Sciences, University of California at Irvine

1988 – 1991. President's Award (three times), Department of Psychology, National Taiwan University

FIELDS OF SPECIALTY: Cognitive Neuroscience, Neurolinguistics

TEACHING EXPERIENCE

2014 – Present. Professor, Department of Psychology, National Taiwan University

2010 – 2014. Associate Professor, Department of Psychology, National Taiwan University

2006 – 2010. Assistant Professor, Department of Psychology, National Taiwan University

2005 – 2006. Assistant Professor, Department of Psychology, Chung Shan Medical University

RESEARCH EXPERIENCE

2007 – Present. NeuroImage and Neuropsychology, study children with ADHD, children with autism, patients with schizophrenia, National Taiwan University Hospital, Taipei, Taiwan

2003 – 2005. Using fMRI to image children with dyslexia during rhyming, spelling, and semantic judgments, Evanston Northwestern Hospital, Evanston, Illinois, USA

2000 – 2001. Studying a dysgraphia patient after stroke to understand the link between phonology and orthography in Chinese writing, St Thomas' Hospital, London, UK

PUBLICATIONS

Li, M.F. Gao, X.Y. Chou, T.L. & Wu, J.T. (2017). Neighborhood frequency effect in Chinese word recognition: evidence from naming and lexical decision. *Journal of Psycholinguistic Research*, 46(1), 227-245. **(SSCI)**

Chen, P.J. Gau, S.S. Lee, S.H. & Chou, T.L. (2016). Differences in age-dependent neural correlates of semantic processing between youths with autism spectrum disorder and typically developing youths. *Autism Research*, 9(12), 1263-1273. **(SSCI)**

Su, I.W. Wu, F.W. Liang, K.C. Cheng, K.Y. Hsieh, S.T. Sun, W.Z. & Chou, T.L. (2016). Pain perception can be modulated by mindfulness training: A resting-state fMRI Study. *Frontiers in Human Neuroscience*, 10(570), 1-8. **(SCI)**

Lee, S.H. Booth, J.R. & Chou, T.L. (2016). Temporo-parietal connectivity uniquely predicts reading change from childhood to adolescence. *NeuroImage*, 142, 126-134. **(SCI)**

Gao, X.Y. Li, M.F. Chou, T.L. & Wu, J.T. (2016). Comparing the frequency effect between the lexical decision and naming tasks in Chinese. *Journal of Visualized Experiments*, (110), e53815. **(SCI)**

Chou, T.L. Chia, S. Shang, C.Y. & Gau, S.S. (2015). Differential therapeutic effects of 12-week treatment of atomoxetine and methylphenidate on drug-naïve children with attention deficit/hyperactivity disorder: a counting Stroop functional MRI study. *European Neuropsychopharmacology*, 25, 2300-2310. **(SCI)**

- Tsai, C.G. Chen, C.C. Wen, Y.C. & Chou, T.L. (2015). Neuromagnetic brain activities associated with perceptual categorization and sound-content incongruity: a comparison between monosyllabic words and pitch names. *Frontiers in Human Neuroscience*, 9(455), 1-10. **(SCI)**
- 周泰立, 翁巧涵. (2015). 語言發展的大腦奧秘. *人文與社會科學簡訊*, 16(3), 53-58.
- Lee, S.H. Booth, J.R. & Chou, T.L. (2015). Developmental changes in the neural influence of sublexical information on semantic processing. *Neuropsychologia*, 73, 25-34. **(SSCI)**
- Li, M.F. Lin, W.C. Chou, T.L. Yang, F.L. & Wu, J.T. (2015). The role of orthographic neighborhood size effects in Chinese word recognition. *Journal of Psycholinguistic Research*, 44, 219-236. **(SSCI)**
- Wu, C.H. Hwang, T.J. Chen, P.J. Chou, T.L. Hsu, Y.C. Liu, C.M. Wang, H.L. Chen, C.M. Hua, M.S. Hwu, H.G. & Tseng, W.Y. (2014). Reduced structural integrity and functional lateralization of the dorsal language pathway correlated with hallucinations in schizophrenia: a combined diffusion spectrum imaging and fMRI study. *Psychiatry Research-Neuroimaging*, 224, 301-310. **(SCI)**
- Fan, L.Y. Gau, S.S. & Chou, T.L. (2014). Neural correlates of inhibitory control and visual processing in youths with attention-deficit/hyperactivity disorder: A counting Stroop functional MRI study. *Psychological Medicine*, 44, 2661-2671. **(SSCI)**
- Wong, C.H. Chen, S.Y. & Chou, T.L. (2014). A longitudinal study of semantic association and categorical relatedness in children's semantic processing of Chinese characters. *Chinese Journal of Psychology*, 56, 65-81. **(TSSCI)**
- Lee, S.H. Hung, K.C. & Chou, T.L. (2014). A longitudinal study of association strength and semantic transparency in semantic processing of Chinese characters in children. *Chinese Journal of Psychology*, 56, 1-11. **(TSSCI)**
- Lo, Y.C. Chou, T.L. Fan, L.Y. Gau, S.S. Chiu, Y.N. & Tseng, W.Y. (2013). Altered structure-function relations of semantic processing in youths with high-functioning autism: A combined diffusion and functional MRI study. *Autism Research*, 6(6), 561-570. **(SSCI)**
- Hsu, N. Cheung, H. Wang, E. & Chou, T.L. (2013). Narratives of Mandarin-speaking patients with schizophrenia. In A. McCabe and C.J. Chang (Eds.), *Chinese Language Narration: Culture, cognition, and emotion* (pp.181-206). Amsterdam: John Benjamins Publishing Company.
- Chou, T.L. Fan, L.Y. Lee, S.H. & Wong, C.H. (2013). From semantic processing and representations to semantic development. *Chinese Journal of Psychology*, 55, 277-288. **(TSSCI)**
- Chen, P.J. Fan, L.Y. Hwang, T.J. Hwu, H.G. Liu, C.M. & Chou, T.L. (2013). The deficits on a cortical-subcortical loop of meaning processing in schizophrenia. *NeuroReport*, 24(3), 147-151. **(SCI)**
- Chan, Y.C. Chou, T.L. Chen, H.C. Yeh, Y.C. Lavalley, J.P. Liang, K.C. & Chang, K.E. (2013). Towards a neural circuit model of verbal humor processing: an fMRI study of the neural substrates of incongruity detection and resolution. *NeuroImage*, 66, 169-176. **(SCI)**
- Chan, Y.C. Chou, T.L. Chen, H.C. & Liang, K.C. (2012). Segregating the comprehension and elaboration processing of verbal jokes: an fMRI study. *NeuroImage*, 61, 899-906. **(SCI)**
- Chou, T.L. Lee, S.H. Hung, S.M. & Chen, H.C. (2012). The role of inferior frontal gyrus in processing Chinese classifiers. *Neuropsychologia*, 50, 1408-1415. **(SSCI)**
- Fan, L.Y. & Chou, T.L. (2012). Hierarchical model comparisons on effective connectivity in semantic judgments of Chinese characters. *Chinese Journal of Psychology*, 54, 31-46. **(TSSCI)**
- Tsai, C.G. Fan, L.Y. Lee, S.H. Chen, J.H. & Chou, T.L. (2012). Specialization of the posterior temporal lobes for audio-motor processing: Evidence from an fMRI study of skilled drummers. *European Journal of Neuroscience*, 35, 634-643. **(SCI)**
- Wong, C.H. Chen, S.Y. Chou, T.L. & Lee, S.H. (2011). The impacts of word recognition ability and semantic relation on semantic processing for third graders. *Chinese Journal of Psychology*, 53(3), 293-307. **(TSSCI)**
- Lee, S.H. Booth, J.R. Chen, S.Y. & Chou, T.L. (2011). Developmental changes in the inferior frontal cortex for selecting semantic representations. *Developmental Cognitive Neuroscience*, 1, 338-350. **(SCI)**

- Deng, Y. Chou, T.L. Ding, G.S. Peng, D.L. & Booth, J.R. (2011). The involvement of occipital and inferior frontal cortex in phonological learning of Chinese characters. *Journal of Cognitive Neuroscience*, 23(8), 1998-2012. **(SSCI)**
- Tsai, C.G. Chen, C.C. Chou, T.L. & Chen, J.H. (2010). Neural mechanisms involved in the oral representation of percussion music: an fMRI study. *Brain and Cognition*, 74, 123–131. **(SSCI)**
- Hung, K.C. Lee, S.H. Chen, S.Y. & Chou, T.L. (2010). Effects of semantic radical and semantic association on semantic processing of Chinese characters for adults and fifth graders. *Chinese Journal of Psychology*, 52(3), 327-344. **(TSSCI)**
- Fan, L.Y. Lee, S.H. & Chou, T.L. (2010). Interaction between brain regions during semantic processing in Chinese adults. *Language and Linguistics*, 11(1), 159-182. **(SSCI)**
- Chou, T.L. Chen, C.W. Fan, L.Y. Chen, S.Y. & Booth, J.R. (2009). Testing for a cultural influence on reading for meaning in the developing brain: The neural basis of semantic processing in Chinese children. *Frontiers in Human Neuroscience*, 3(27), 1-9. **(SCI)**
- Lee, S.H. Chen, S.Y. & Chou, T.L. (2009). Effect of vocabulary size on semantic processing of Chinese characters for fifth graders and adults. *Formosa Journal of Mental Health*, 22(4), 345-382. **(TSSCI)**
- Chou, T.L. Chen, C.W. Wu, M.Y. & Booth, J.R. (2009). The role of inferior frontal gyrus and inferior parietal lobule in semantic processing of Chinese characters. *Experimental Brain Research*, 198, 465-475. **(SCI)**
- Deng, Y. Booth, J. R. Chou, T.L. Ding, G. & Peng, D. (2008). Item-specific and generalization effects on brain activation when learning Chinese characters. *Neuropsychologia*, 46, 1864-1876. **(SSCI)**
- Bitan, T. Burman, D.D. Chou, T.L. Lu, D. Cone, N.E. Cao, F. Bigio, J.D. & Booth, J.R. (2007). The interaction between orthographic and phonological information in children: an fMRI study. *Human Brain Mapping*, 28(9), 880-891. **(SCI)**
- Chou, T.L. Davis, M.H. Marslen-Wilson, W.D. & Booth, J.R. (2006). Phonological priming in visual word recognition for English words: an event-related functional MRI study. *Chinese Journal of Psychology*, 48(4), 1-18. **(TSSCI)**
- Chou, T.L. Booth, J.R. Bitan, T. Burman, D.D. Bigio, J.D. Cone, N.E. Lu, D. & Cao, F. (2006). Developmental and skill effects on the neural correlates of semantic processing to visually presented words. *Human Brain Mapping*, 27, 915-924. **(SCI)**
- Chou, T.L. Booth, J.R. Burman, D.D. Bitan, T. Bigio, J.D. Lu, D. & Cone, N.E. (2006). Developmental changes in the neural correlates of semantic processing. *NeuroImage*, 29, 1141-1149. **(SCI)**
- Booth, J.R. Dong, L. Burman, D.D. Chou, T.L. Jin, Z. Peng, D.L. Zhang, L. Ding, G.S. Deng, Y. & Liu, L. (2006). Specialization of phonological and semantic processing in Chinese word reading. *Brain Research*, 1071, 197-207. **(SCI)**
- Cao, F. Bitan, T. Chou, T.L. Burman, D.D. & Booth, J.R. (2006). Deficient orthographic and phonological representations in children with dyslexia revealed by brain activation patterns. *Journal of Child Psychology and Psychiatry*, 47(10), 1041-1050. **(SCI)**
- Reich, S. Chou, T.L. & Patterson, K. (2003). Acquired dysgraphia in Chinese: Further evidence on the link between phonology and orthography. *Aphasiology*, 17, 585-604. **(SCI)**
- Yang, C. Gordon, P. Hendrick, R. Wu, J.T. & Chou, T.L. (2001). The processing of coreference for reduced expressions in discourse integration. *Journal of Psycholinguistic Research*, 30, 21-35. **(SSCI)**
- Wu, J.T. & Chou, T.L. (2000). The comparison of relative effects of semantic, homophonic and graphic priming on Chinese character recognition and naming. *Acta Psychologica Sinica*, 32, 34-41.

- Chou, T.L. Luh, W.M. Cheng, C.C. & Wu, J.T. (1996). Effect of stimulus complexity and type of presentation on mental rotation stages. *Chinese Journal of Psychology*, 38, 31-40. **(TSSCI)**
- Liu, I.M. Wu, J.T. & Chou, T.L. (1996). Encoding operation and transcoding as the major loci of the frequency effect. *Cognition*, 59, 149-168. **(SSCI)**
- 周泰立 (1995). 如何增進學習動機. *空軍學術月刊*, 462, 51-56.
- 吳瑞屯, 周泰立, 劉英茂 (1993). 中文單字辨識的直接歷程. *華文世界*, 69, 8-16.