

Curriculum Vitae

Yi-Hui Hung

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Education/Training

- Ph.D., National Yang-Ming University, Taiwan, Institute of Neuroscience, specialized in Cognitive Neuroscience, awarded in 2014
- M.A., National Central University, Institute of Cognitive Neuroscience, awarded in 2006
- B.A., Fu-Jen Catholic University, Clinical psychology, awarded in 2004

Professional experience

Research

- Doctoral study on the neural basis of Chinese character recognition under the supervision of Dr. Ovid Tzeng and Dr. Denise Wu at National Yang-Ming university in Taiwan
- Internship study on the neural basis of domain-general word merging processing under the supervision of Dr. Stanislas Dehaene and Dr. Christophe Pallier at Neurospin in France (via an overseas study funding project, PI: Dr. Denise Wu)
- Collaborative study on mathematic cognition on normally developing children (via an integrative research project, PI: Dr. Denise Wu)
- Master's study on the numerical cognition under the supervision of Dr. Denise Wu at National Central University in Taiwan

Assisting grant writing

1. National Science Council Research Projects, PI : Denise Wu, Explorations on Neural Correlates of Chinese Sentence Processing (NSC102-2628-H008-002-MY3, 2013-2016)
2. Mission Orientated Research Team Overseas Study Funding Projects (Dragon Gate Project launched by National Science Council), PI : Denise Wu, Cross-cultural visuo-spatial and visuo-motor processing in Chinese and French readers (NSC

- 99-2911-I-008-507, 2010-2012)
3. National Science Council Research Projects, PI : Denise Wu, The Functions and Neural Correlates of Phonological, Semantic, and Orthographic Information of Verbal Short-Term Memory for Chinese Materials (NSC 98-2410-H-008-012, 2009-2010)
 4. National Science Council Research Projects, PI:Denise Wu, The Spatial Mapping of Numerical and Ordinal Information in College Students, Normally Developing Children, and Children with Developmental Dyscalculia (NSC 96-2628-S-008-009-MY2, 2007-2009)

Technical skills

- Programming: Matlab, R, Python
- Experiment design and control: E-Prime
- Statistics: R, SPSS, Matlab
- Neuroimaging tools: fMRI, MEG
- Imaging data analysis: SPM, AFNI, MEG160, BESA

Editorial experience:

- Reviewer for *Frontiers in Psychology*
- Ad Hoc Reviewer for *Cognition* and *Journal of Experimental Psychology: Learning, Memory, and Cognition*

Teaching experience

- Guest lecture in the class of “Applications of MEG in neurolinguistics” in National Central University (2012)
- Teaching assistant for the class of “Advanced statistics in psychology” (2009) in National Central University

Conference/symposium organization

- Assisting the organization of “the symposium on L1 reading across different languages and L2-literacy acquisition” held in Jhongli, Taiwan (2013)
- Assisting the organization of “the symposium on dyslexia across languages: orthography and the brain-gene link” sponsored by the Dyslexia Foundation held in Taipei, Taiwan (2010)

Awards

1. 2013 Students Conference Travel Grant (National Science Council)
2. 2009 Students Conference Travel Grant (National Science Council)
3. 2006 Outstanding Students Conference Travel Grant (The Foundation for the Advancement of Outstanding Scholarship)

Funding

1. Academia Sinica Grant, PI : Denise Wu, Key determinants of successful language acquisition: Integrated research of behavioral, developmental, and neurobiological approaches (AS-102-TP-C06)
2. Mission Orientated Research Team Overseas Study Funding Projects (Dragon Gate Project launched by National Science Council), PI : Denise Wu, Cross-cultural visuo-spatial and visuo-motor processing in Chinese and French readers (NSC 99-2911-I-008-507)
3. National Science Council Research Projects, PI : Daisy Hung, Indigenous Science Education Program (NSC 97-2511-S008-008-MY5)
4. National Science Council Research Projects, PI : Denise Wu, The influence of numerical magnitude on time discrimination and time reproduction: Evidence from behavioral and electrophysiological experiments (NSC 99-2410-H-008-023-MY3)
5. National Science Council Research Projects, PI : Denise Wu, A Neuroscience Training Program for Researchers in Education or Other Humanities and Social Science Domains(NSC 98-2517-S-004-001-MY)
6. National Science Council Research Projects, PI : Denise Wu, The Spatial Mapping of Numerical and Ordinal Information in College Students, Normally Developing Children, and Children with Developmental Dyscalculia (NSC 96-2628-S-008-009-MY2)

Publication

Journal papers

1. **Hung, Y.-H.**, Pallier, C., Dehaene, S., Lai, M., Chang, A. Y.-C., Tzeng, O. J.-L., Wu, D. H., (2015). Neural correlates of merging number words in Chinese and French speakers, *NeuroImage*, 122, 33-43.
2. **Hung, Y.-H.**, Hung, D. L., Tzeng, O. J. L., & Wu, D. H. (2014). Tracking the temporal dynamics of the processing of phonetic and semantic radicals in Chinese character recognition by MEG. *Journal of Neurolinguistics*, 29, 42-65.
3. **Hung, Y.-H.**, Hung, D. L., Tzeng, O. J. L., & Wu, D. H. (2008). Flexible spatial mapping of different notations of numbers in Chinese readers. *Cognition*, 106(3),

1441-1450.

Conference posters

1. **Hung, Y.-H.**, Mencl, W.-E., Zevin, J.-D., Frost, S., Molfese P., Rueckl, J, Pugh, K, (2015, November). Individual differences in the neural correlates of reading words and passages. Poster presented in the 6th Annual Society for the Neurobiology of Language Conference, Chicago, USA.
2. **Hung, Y.-H.**, Wu, D. H., Lai, M., Tzeng, O. J.-L., Hung, D. L., Dehaene, S., Pallier, C., (2014, April). Neural correlates of merging number words in Chinese and French speakers. Poster presented in the 21th Cognitive Neuroscience Society Annual Meeting, Boston, USA.
3. Bulut, T., **Hung, Y.-H.**, Wu, D. H., (2014, January). Sentence processing and compounding in Chinese: A naming experiment. Poster presented in Taiwan Society of Cognitive Neuroscience-2014 Annual Meeting, Zhongli, Taiwan.
4. **Hung, Y.-H.**, Lee, J.-R., Frost, R., Tzeng, O. J.-L., Hung, D. L., & Wu, D. H. (2013, October). The relative contribution of semantic and phonetic radicals in Chinese character recognition. Independent paper presented in the 52nd Annual Meeting of the Taiwan Psychology Association Annual Meeting, Taipei, Taiwan.
5. **Hung, Y.-H.**, Hung, D. L., Tzeng, O. J.-L., & Wu, D. H. (2013, April). Behavioral and magnetoencephalographic evidence for the contribution of phonetic and semantic radicals to Chinese character recognition. Poster presented in the 20th Cognitive Neuroscience Society Annual Meeting, San Francisco, USA.
6. Chien, J. Y.-N., **Hung, Y.-H.**, Hung, D. L., & Wu, D. H. (2011, April). The temporal dynamics of the code-switching effect between alphabetic and logographic languages in unbalanced Chinese-English bilinguals. Poster presented in the Cognitive Neuroscience Society, San Francisco, USA
7. **Hung, Y.-H.**, Chien, Y.-N., Wu, D. H., Tzeng, O. J.-L., (2010, October). The temporal dynamic of code-switching effect in Chinese-English bilinguals: An electrophysiological study. Poster presented in Frontiers in Neuroscience 2010: From Genes to Cognition, National Yang-Ming University, Taipei, Taiwan.
8. **Hung, Y.-H.**, Tzeng, O. J.-L., & Wu, D. H. (2009, October). Processing of phonetic radicals in recognition of Chinese characters: Neuromagnetic evidence from homophone judgment. Poster presented in the International Conference on the Processing East Asian Languages, Beijing, China.
9. **Hung, Y.-H.**, Y., Wu, D. H., Tzeng, O. J.-L., Hung, D. L. (2006, April). The SNARC effect: Influence of reading experience on the mapping between sequential

information and spatial representation. Poster presented in the 13th Cognitive Neuroscience Society Annual Meeting, San Francisco, USA.