

# Chun-Ting Hsu

Brain, Language, and Computation Lab  
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## ACADEMIC EDUCATION

- PhD (Dr. phil.)** Department of Education and Psychology, Freie Universität Berlin, Germany  
2010.11 – 2014.12 Thesis: *Textual emotion potential, fiction feelings, and immersion: an fMRI study testing the neurocognitive poetics model of literary reading*  
Supervision: Dr. Markus Conrad and Professor Arthur M. Jacobs
- Master of Science** Integrative Neuroscience Master Program (international program in English),  
2008.10 – 2010.10 Otto-von-Guericke-University-Magdeburg, Germany  
Thesis: *Neural processing of pitch variations in speech and music*  
Supervision: Dr. Nicole Angenstein and Dr. André Brechmann  
The Special Lab of Non-Invasive Brain Imaging,  
Leibniz Institute for Neurobiology, Magdeburg, Germany
- Doctor of Medicine** Department of Medicine, National Taiwan University, Taiwan  
1999.09 – 2006.06

## EMPLOYMENTS

- Postdoctoral Scholar** Brain, Language, and Computation Lab supervised by Professor Ping Li  
2016.05 – present Department of Psychology, College of Liberal Arts, Pennsylvania State University
- Postdoctoral Research Associate**, Research Group supervised by Professor Bhisudev Chakrabarti,  
2015.02 – 2016.04 School of Psychology and Clinical Language Sciences, University of Reading, UK
- Research Assistant** Research Group of Dr. Markus Conrad and Professor Arthur M. Jacobs,  
2010.11 – 2013.09 Department of Education and Psychology, Freie Universität Berlin, Germany
- Obligatory Military Service, Ministry of Defense, Taiwan  
2006.09 – 2007.10

## TEACHING EXPERIENCE

- Spring 2017 Pennsylvania State University, Department of Psychology. Advanced Cognitive Psychology: Brain Mapping Methods I & II; Discourse Comprehension and Production.

## EXPERIMENTAL SKILLS

Basic principles and experimental design of EEG, fMRI, MEG and PET studies  
MRI: VBM, GLM and dynamic causal modeling with **SPM**, region of interest analysis with **Marsbar**, generalized PPI with the toolbox **PPPI**, multivariate pattern analysis (MVPA) with **PRoNT**  
EEG: Data processing and fourier transformation with BrainVision Analyser  
SCR: Data processing analysis with **SCRalyze**  
TMS: Transcranial Magnetic and Electrical Stimulation Workshop (TMS/tDCS/tACS/tRNS),  
2012, Göttingen, Germany  
Programming software: **Presentation** (Neurobehavioral Systems) and **Matlab**  
Statistics Software: **R/RStudio**, **SPSS** and **JMP**

## PUBLICATIONS

- O'Connell, G.\*, **Hsu**, C.-T.\*, Christakou, A., Chakrabarti, B. (2017). Shared neural mechanisms for controlling egocentric bias during perspective-taking and intertemporal choices. *Cogn Affect Behav Neurosci*. doi: 10.3758/s13415-017-0550-8
- Hsu**, C.-T.\*, Sims, T.\*, & Chakrabarti, B. (2017). How mimicry influences the neural correlates of reward: an fMRI study. *Neuropsychologia*. doi: 10.1016/j.neuropsychologia.2017.08.018
- Hsu**, C.-T.\*, Neufeld, J.\*, & Chakrabarti, B. (2017). Reduced reward-related striatal response to imitation in individuals with autism. *Eur J Neurosci*. doi:10.1111/ejn.13620
- Hsu**, C.-T., Jacobs, A. M., & Conrad, M. (2015). Can Harry Potter still put a spell on us in a second language? An fMRI study on reading emotion-laden literature in late bilinguals. *Cortex*. 63, 282-295. doi: 10.1016/j.cortex.2014.09.002
- Hsu**, C.-T., Jacobs, A. M., Citron, F. M. M., & Conrad, M. (2015). The emotion potential of words and passages in reading Harry Potter - an fMRI study. *Brain Lang*, 142, 96-114. doi: 10.1016/j.bandl.2015.01.011
- Hsu**, C.-T., Jacobs, A. M., Altmann, U., & Conrad, M. (2015). The magical activation of left amygdala when reading Harry Potter: An fMRI study on how descriptions of supra-natural events entertain and enchant. *PLoS One*, 10(2), e0118179. doi: 10.1371/journal.pone.0118179
- Hsu**, C.-T., Conrad, M., & Jacobs, A. M. (2014). Fiction feelings in Harry Potter: haemodynamic response in the mid-cingulate cortex correlates with immersive reading experience. *NeuroReport*. 25: 1356-1361. doi: 10.1097/WNR.0000000000000272

\* Equal contribution

## CONFERENCE CONTRIBUTIONS

- Hsu**, C.-T., Schloss, B.J., Li, P. (2017) *Individual Competence in Reading Comprehension and Fluid Intelligence Modulates Right DLPFC Activity when Reading Scientific Texts*. Poster presented at the *Ninth Annual Meeting of the Society for the Neurobiology of Language*, Baltimore, USA, November 2017
- Schloss, B.J., **Hsu**, C.-T., Li, P. (2017) *Extracting Single Word Voxel Patterns from Self-Paced Reading Using Simultaneous Eye-Tracking and Multiband fMRI*. Poster presented at the *Ninth Annual Meeting of the Society for the Neurobiology of Language*, Baltimore, USA, November 2017
- Schloss, B.J., **Hsu**, C.-T., Li, P. (2017) *A sensorimotor network for voluntary oculomotor function in skilled reading: From cortex to brainstem*. Poster presented at the *Cognitive Neuroscience Society 2017 Annual Meeting*, San Francisco, USA, March 2017
- Hsu**, C.-T.\*, Neufeld, J.\*, and Chakrabarti, B. (2015) *Reduced reward-related striatal response to imitation in individuals with autism*. Talk held in the nanosymposium "Individual Differences" at the Society for Neuroscience conference *Neuroscience 2015*, Chicago, USA, October 2015
- Hsu**, C.-T.\*, Sims, T.\*, Chakrabarti, B. (2015) *How mimicry influences the neural correlates of reward*. Poster presented at the *Society for Social Neuroscience 2015 Annual Meeting*, Chicago, USA, October 2015
- Hsu**, C.-T., Conrad, M., Citron, F. M. M., Jacobs, A. M. (2014) *The emotion potential of words in literary reading - An fMRI study*. Talk held at the *14th Conference of the International Society for the Empirical Study of Literature and Media*, Turin, Italy, July 2014

**Hsu, C.-T., Jacobs, A. M., & Conrad, M. (2013)** *Bilingualism and affectivity in reading: an fMRI study*. Poster presented at the *11th Symposium of Psycholinguistics*, Tenerife, Spain, March 2013

**Hsu, C.-T., Jacobs, A. M., & Conrad, M. (2013)** *Bilingualism and affectivity in reading: an fMRI study*. Talk held within the symposium: “Languages of Emotion”, at the *Tagung experimentell arbeitender Psychologen (Conference of Experimental Psychologists)*, Vienna, Austria, March 2013

\* Equal contribution

#### **INVITED TALKS**

2016.12.16. Research Center for Mind, Brain & Learning, National Chengchi University, Taipei, Taiwan. *Textual emotion potential, fiction feelings, and immersion: an fMRI study testing the neurocognitive poetics model of literary reading.*

#### **COMMUNITY OUTREACH**

2017.05.15 Young Scholars of Central PA Charter School: Extended day program – Scientific Text Reading