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Current Positions **Professor, School of Medicine**
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Education

BS, Department of Botany, National Taiwan University, Taipei, Taiwan (1993)
MS, Institute of Psychology, National Chung-Cheng University, Chia-Yi, Taiwan (1995)
Ph.D., Department of Psychology, University of Washington, Seattle, WA, U.S.A (2003)
Postdoc, Cognitive Development Center, University of Colorado, Border, CO, U.S.A (2003-2005)

Expertise

Early Visual Development,	Vision & Cognitive Sciences	Developmental Neuroscience
Face Perception in Context	Cognitive Neuroscience,	Magnetoencephalography (MEG)

Deviated Visual Perception in Clinical Groups (Autism Spectrum Disorders, Parkinsonism)

Research Interests

Perception is the gateway through which energy in the physical world transforms into sensations and ideas in the mind. My research focuses on the early development of visual perception and plasticity. Using behavioral-based eye tracking technique and brained-based MEG methods, we investigated the ontogeny, mechanisms, and developmental trajectory of a variety of face processing capacities. Our investigation of face processing extends to clinical groups such as individuals with autism and Parkinson's disease.

Selected Grants (PI):

1. "Exploring the development of race categorization in children and adolescents: A psychophysical & magneto-encephalography (MEG) investigation." (MOST-108-2410-H-039-001-MY3, 2019/8-2022/7).
2. "Multidisciplinary study of novel NMDA modulation for neurodegenerative disorder-- Novel NMDA modulation for improving sensitivity for face and biological motion perception (4th year)." (CMU108-S-30, 2019/9-2020/8)
3. "Exploring the development of aesthetic preferences in infancy with eye tracker and magnetoencephalography (MEG): Effect of contrast polarity and eye size on spontaneous preferences for natural scenes and faces." Integrated Brain and Mind Research Grant (MOST-105-2420-H-039 -001-MY3, 2016/1-2019/12).

Selected Publications

Ho, M. W. R., **Chien*, S.H.L.,** Lu, M. K., Chen, J. C., Aoh, Y., Chen, C. M., ... & Tsai, C. H. (2020). Impairments in face discrimination and emotion recognition are related to aging and cognitive dysfunctions in parkinson's disease with dementia. *Scientific Reports, 10(1)*, 1-8.

Hsiung, E. Y., **Chien*, S.H.L.,** Chu, Y. H., & Ho, M. R. (2019). Adults with autism are less proficient in identifying biological motion actions portrayed with point-light displays. *Journal of Intellectual Disability Research.* doi.org/10.1111/jir.12623

Chien*, S.H.L., Tai, C. L., & Yang, S. F. (2018). The development of the own-race advantage in school-age children: A morphing face paradigm. *PLoS ONE, 13*(4): e0195020. doi.org/ 10.1371/journal.pone.0195020

Chien*, S.H.L., Wang, J. H., & Huang, T. R. (2016). Developing the own-race advantage in 4-, 6-, and 9-month-old Taiwanese infants: A perceptual learning perspective. *Frontiers in Psychology*, 7. doi: 10.3389/fpsyg.2016.01606.