# Hsing-Hao Lee Curriculum Vitae

# **Contact Information**

Department of Psychology, New York University NYU Meyer Hall, Room 974 6 Washington Place, New York, NY, 10003, USA Email: <u>hsinghaolee@nyu.edu</u> Website: <u>https://hsinghaolee.github.io</u>

# Education

2021 -	Ph.D., Psychology (Cognition and Perception) Department of Psychology, New York University, USA Mentor: Dr. Marisa Carrasco
2017 – 2019	Master of Science, Psychology (GPA: 3.91/4.0) Department of Psychology, National Taiwan University, Taiwan Mentor: Dr. Su-Ling Yeh
2013 - 2017	Bachelor of Science, Psychology (GPA: 3.94/4.0) Department of Psychology, National Cheng Kung University, Taiwan Mentor: Dr. Shulan Hsieh

## **Research Interests**

- 1. Attention: How does visual attention interact with perception?
- 2. Consciousness: How do the conscious and unconscious mental processes work?
- 3. Cognitive control: How do people inhibit irrelevant information and do motor control?

# **Publications**

- 1. Lee, H. H., Fernández, A., & Carrasco, M. (*preprint*). Adaptation and exogenous attention interact in the early visual cortex: A TMS study
- 2. Lee, H. H., Groves, K., Ripollés, P., & Carrasco, M. (2024). Audiovisual integration in the McGurk effect is impervious to music training. *Scientific Reports*, *14*, 3262.
- 3. Lee, H. H., Liu, G. K., Chen, Y. C., & Yeh, S. L. (2024). Exploring quantitative measures in metacognition of emotion. *Scientific Reports*, 14, 1990.
- Cheng, T., Chiu, L., Huang, L., Lin, Y. T., Lee, H. H., Chen, Y. C., & Yeh, S. L. (2023). Predictive processing in the "Second Brain": From gut complex to meta-awareness. In Expected Experiences (pp. 170-194). Routledge.
- Chen, Y. T., Lee, H. H., Shih, C. Y., Chen, Z. L., Beh, W. K., Yeh, S. L., & Wu, A. Y. (2022). An effective entropy-assisted mind-wandering detection system with EEG signals of MM-SART Database. *IEEE Journal of Biomedical and Health Informatics*, 26(8), 3649-3660.

- 6. Lee, H. H., Chien, S. E., Lin, V., & Yeh, S. L. (2022). Seeing food fast and slow: Arousing pictures and words have reverse priorities in assessing awareness. *Cognition*, *225*, 105144.
- 7. Lee, H. H., Chen. Z. L., Yeh, S. L., Hsiao, J. H., & Wu, A. Y. (2021). When eyes wander around: Mind-wandering as revealed by eye movement analysis with hidden Markov models. *Sensors*, *21*, 7569.
- 8. Lee, H. H., Tu, Y. C., & Yeh, S. L. (2021) In search of blue-light effects on cognitive control. *Scientific Reports*, *11*, 15505.
- 9. Lee, H. H., & Yeh, S. L. (2021). Blue-light effects on saccadic eye movements and attentional disengagement. *Attention, Perception, & Psychophysics.* 83, 1713-1728.
- Chien, S. E., Chu, L., Lee, H. H., Yang, C. C., Lin, F. H., Yang, P. L., Wang, T. M., & Yeh, S. L. (2019). Age difference in perceived ease of use, curiosity, and implicit negative attitude toward robots. *ACM Transactions on Human-Robot Interaction (THRI)*, 8(2):9.
- 11. Lee, H. H., & Hsieh, S. (2017). Resting-state fMRI associated with stop-signal task performance in healthy middle-aged and elderly people. *Frontiers in Psychology*, 8:766.

#### **Manuscripts in preparation**

- 1. Lee, H. H., Kao, Y. W., Goh, J. O. S., & Yeh, S. L. (*in preparation*). Age differences in neural processing of facial expression predictions.
- 2. Li, S. H., Lee, H. H., Kao, Y. W., Goh, J. O. S., Jingling, L., Tsai, A. C. H., & Yeh, S. L. (*in preparation*). Age differences in processing representational momentum for motion sequences as revealed by fMRI.

#### **Selected Conference Presentations**

- Lee, H. H., Fernandéz, A., & Carrasco, M. (2023). Adaptation modulates the effect of covert exogenous attention in early visual cortex – A TMS study. Poster presented at the Annual Meeting of the Vision Sciences Society, Tampa, FL.
- **2.** Lee, H. H., Liu, G. K., & Yeh, S. L. (2021) *I know I'm happy, and I'm right: Metacognition of emotion*. Poster presented at the Annual Meeting of European Conference on Visual Perception, Virtual Meeting.
- **3.** Cheng, T., Chiu, L., Huang, L. T., Lin, Y. T., Chen. Y. C., Lee. H. H., & Yeh, S. L. (2021) *Metacognitive architecture: Perception, interoception, and beyond.* Poster presented at the Conference of Metacognition: New developments and challenges, Virtual Meeting.
- **4.** Lee, H. H., Chien, S. E., Lin, V., & Yeh, S. L. (2021). *Which comes first? Examining breaking continuous flash suppression time of high-calorie and low-calorie foods*. Poster presented at the Annual Meeting of the Vision Sciences Society, Virtual meeting.
- Chen, Z. L., Lee, H. H., Chen, Y. T., Wu, A. Y., & Yeh, S. L. (2021). *The mind's eye: Mind-wandering revealed by eye movement hidden Markov model*. Poster presented at the Annual Meeting of the Vision Sciences Society, Virtual meeting.
- 6. Kao, Y. W., Lee, H. H., Goh, J. O. S., & Yeh, S. L. (2020). Age-related differences in the statistical

*regularity of emotional faces.* Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, Virtual meeting.

- 7. Lee, H. H., Shih, C. Y., Chen, Z. L., Wu, A. Y., & Yeh, S. L. (2019). Are you concentrating or mindwandering? Electroencephalogram signals reveal differences in attentional states. Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL.
- 8. Lee, H. H. & Yeh, S. L. (2019). *Blue-light effects on the gap effect.* Poster presented at the Annual Meeting of the Vision Sciences Society, Tampa, FL.
- 9. Lee, H. H., Chen, Z. L., Chen, Y. T., Shih, C. Y., Beh, W. K., Wu, A. Y., & Yeh, S. L. (2019). *The heart never lies: Heart rate variability as an index of sustained attention*. Poster presented at the National Taiwan University-Kyoto University International Symposium for Cognitive Neuroscience, Taipei, Taiwan.
- 10. Lee, H. H., Lin, F. H., Chien, S. E., & Yeh, S. L. (2018). *Food information processed unconsciously under continuous flash suppression*. Oral presentation at the Joint Conference of National Taiwan University, Peking University, and Chinese University of Hong Kong, Hong Kong.
- **11. Lee, H. H.** & Hsieh S. (2017). *The aging effect on time perception: An ERP study.* Poster presented at the 13th Asia Pacific Conference on Vision, Tainan, Taiwan.
- **12. Lee, H. H.** & Hsieh S. (2016). *The relation between resting-state fMRI and stop-signal task performance in healthy middle-aged and elderly people.* Poster presented at the 55th Annual Taiwan Psychology Association Meeting, Tainan, Taiwan.

### **Research Experience**

2021 -	Graduate Student in Carrasco Lab
	Department of Psychology, New York University
	Principal Investigator: Dr. Marisa Carrasco
	Duties: Designed, collected and analyzed psychophysics and TMS experiments
2017 - 2021	Graduate Student and Research Assistant in EPA (Explorer of Perception and
	Attention) Lab
	Department of Psychology, National Taiwan University
	Principal Investigator: Dr. Su-Ling Yeh
	Duties: Designed, collected and analyzed eye-tracking, fMRI, EEG, and behavioral
	experiments
2016 – 2017	Research Assistant in CASE (Control, Aging, Sleep, and Emotion) Lab
	Department of Psychology, National Cheng Kung University
	Principal Investigator: Dr. Shulan Hsieh
	Duties: Collected and analyzed EEG, fMRI, and behavioral data from older adults
Awards and	Honors

2023	Graduate School of Arts and Science Dean's Conference Fund
	Issued by New York University, USA

	Vision Sciences Society, Florida, USA
2021 – 2025	<b>Taiwan's Government Fellowship for Studying Ph.D. Abroad</b> Issued by Ministry of Education, Taiwan <i>Area: Cognitive Neuroscience</i>
2019	College of Science Student Travel Award Issued by National Taiwan University Summer School Program at University of California, Berkeley, USA
2019	<b>Scholarships for Students Attending International Academic Conferences</b> Issued by Ministry of Science and Technology, Taiwan <i>Vision Sciences Society, Florida, USA</i>
2017	<b>Scholarships for Students Attending International Academic Conferences</b> Issued by National Cheng Kung University <i>Asia-Pacific Conference on Vision, Tainan, Taiwan</i>
2016	<b>College Student Research Scholarship</b> Issued by Ministry of Science and Technology, Taiwan
2013 – 2016	Academic Excellence Awards (awarded every school year) Issued by Department of Psychology, National Cheng Kung University Top 5% GPA among the school year in Psychology Department

# **Teaching Experience**

2023	Fall	TA for Graduate Perception, New York University
2019	Spring	TA for Seminar in Graduate Institute of Psychology, National Taiwan University
2018	Fall	TA for Introduction to Psychology, National Taiwan University
2017 -	- 2018	TA for Statistics in Psychology and Education, National Taiwan University
2017	Spring	TA for Cognitive Psychology, National Cheng Kung University

# **Graduate Course work**

2023	Fall	Psychophysics
2023	Spring	Computational Cognitive Modeling
2023	Spring	Learning and Memory
2022	Fall	Mathematical Tools for Simulation and Data Analysis
2022	Spring	Functional Magnetic Resonance Imaging (fMRI) Lab
2022	Spring	Behavioral and Cognitive Neuroscience
2021	Fall	Perception
2021	Fall	Mathematical Tools for Neural and Cognitive Science

# **Ad-hoc Reviewer**

Cognition, Frontiers in Psychology, Frontiers in Human Neuroscience, Scientific Reports

# **Technical Expertise**

R, MATLAB, EEG (Neuroscan, EEGLAB), fMRI (SPM12), eye-tracker (EyeLink, Tobii), TMS (Brainsight), four-mirror stereoscope