

Curriculum Vitae

Philip Tseng (曾祥非)

Contact Information

- Names: Philip Tseng
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Positions

- August 2020 – Present: Vice Dean (副院長)
College of Humanities & Social Sciences, Taipei Medical University
- August 2019 – Present: Director (所長兼學程主任)
Graduate Institute of Mind, Brain and Consciousness
PhD Program in Neuroscience of Cognition and Consciousness
- August 2018 – July 2019: Associate Professor & 籌備處主任
心智意識與腦科學研究所 & 博士學位學程
- April 2015 – July 2019: Associate Professor
Graduate Institute of Humanities in Medicine,
Taipei Medical University
- Aug 2011 – April 2015: Post-doctoral Research Fellow
Institute of Cognitive Neuroscience, National Central University
- July 2010 – July 2011: Cognitive Psychologist (Human Machine Interface)
Volkswagen Electronics Research Lab, Belmont, CA

Joint Appointments

- Brain and Consciousness Research Center, Shuang Ho Hospital, Taipei Medical University
- Psychiatric Research Center, Wan Fang Hospital, Taipei Medical University
- International Ph.D. Program in Biotech and Healthcare Management, Taipei Medical University

Education

- 2006-2010: University of California, Santa Cruz (Ph.D. in Experimental Psychology)
- 2005-2006: Arizona State University
- 2001-2005: University of California, San Diego (B.S. in Psychology)

Research Interests

- Social cognition & neuroscience
- Neuroscience of deception
- Noninvasive brain stimulation
- Moral perception and neuro-ethics
- Visual short-term memory
- Perception and action
- Attention and implicit learning
- Human Machine Interface (Usability)

Academic Awards

- 2020: 臺北醫學大學通識教育中心 教學優良教師 Outstanding Gen. Ed.'s Award
- 2019: 臺北醫學大學人文暨社會科學院 教學優良教師 Outstanding Teacher's Award
- 2018: Best Illusion of the Year Contest, Top 10 Finalist (The Sequin Illusion)
- 2017: 中華民國第 55 屆十大傑出青年(科學及技術研究發展類) Ten Outstanding Young Persons of Taiwan
- 2016: 科技部吳大猷先生紀念獎 Ministry of Science and Technology, Taiwan: Wu Ta-You Memorial Young Investigator Award
- 2010: Vision Sciences Society Graduate Student Travel Award (20 recipients out of 250 applicants)
- 2010: UCSC Psychology Department: Outstanding TA Award (6 recipients out of approx. 60 TAs)

Publications in Peer-reviewed Journals (* denotes corresponding authorship)

1. Rawal, A, & **Tseng, P*** (in press). The effect of visual statistical learning in RSVP: Implicit learning or stream location artifact? *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
2. **Tseng, P*** & Lo, YH (2020). Altered EEG Signal Complexity Induced by Hand Proximity: A Multiscale Entropy Approach. *Frontiers in Neuroscience: Brain Imaging Methods*, 14:562132.
3. Hsu, TY, Lo, YH, Ke S-C, Lin, L, & **Tseng, P*** (2020). Variation of picture angles and the validity of the guilty knowledge lie detection test. *Cognitive Research: Principles and Implications*, 5:33.
4. Yang, H-L, Chu, H, Kao, C-C, Miao, N-F, Chang, P-C, **Tseng, P**, O'Brien, A, Chou, K-R* (2020). Construction and Evaluation of Multi-domain Attention Training to Improve Alertness Attention, Sustained Attention, and Visual-Spatial Attention in Older Adults with Mild Cognitive Impairment: A Randomized Controlled Trial. *International Journal of Geriatric Psychiatry*, 35:5, 537-546.
5. Kuo, Y-T & **Tseng, P*** (2019). The Sequin Illusion. *i-Perception*, 10(6), 1-7.
This new illusion made it to the top 10 finalist of the 2018 Best Illusion of the Year Contest:
<http://illusionoftheyear.com/2018/10/sequin-illusion/>
6. Wang, J, **Tseng, P**, Juan, C-H, Frisson, S, Apperly, I* (2019). Perspective-taking Across Cultures: Shared biases in Taiwanese and British Adults. *Royal Society Open Science*, 6, 190540.
7. Yang, H-L, Chu, H, Kao, C-C, Chiu, H-L, Tseng, I-J, **Tseng, P**, Chou, K-R* (2019). Development and effectiveness of virtual interactive working memory training for older people with mild cognitive impairment: a single-blind randomised controlled trial. *Age and Ageing*, afz029, 1-7.
8. Yang, H-L, Chu, H, Miao, N-F, Chang, P-C, **Tseng, P**, Chen, R, Chiu, H-L, Banda, KJ, Chou, K-R* (2019). The construction and evaluation of executive attention training to improve selective attention, focused attention, and divided attention for older adults with mild cognitive impairment: A randomized controlled trial. *American Journal of Geriatric Psychiatry*.
9. Lo, YH & **Tseng, P*** (2018). Electrophysiological markers of working memory usage as an index for truth-based lies. *Cognitive, Affective, & Behavioral Neuroscience*, 18(6), 1089-1104.
10. **Tseng, P*** (2018). The 72-year-old graduate student. *Consciousness & Cognition*, 64, 3-5.
11. **Tseng, P***, Wang, MC, Lo, YH, & Juan, CH* (2018). Anodal and cathodal tDCS over the right frontal eye fields impacts spatial probability processing differently in pro- and antisaccades. *Frontiers in Neuroscience*, 12, 421.

12. **Tseng, P***, Lu, K-C, & Juan, CH (2018). The critical role of phase difference in theta oscillation between bilateral parietal cortices for visuospatial working memory. *Scientific Reports*, 8:349.
13. Wu, YJ, Lin, CC, Yeh, CM, Chien, ME, Tsao, MC, **Tseng, P**, Huang, CW, & Hsu, KS (2017). Repeated transcranial direct current stimulation improves cognitive dysfunction and synaptic plasticity deficit in the prefrontal cortex of streptozotocin-induced diabetic rats. *Brain Stimulation*, 10(6), 1079-1087.
14. **Tseng, P**, Lane, TJ*, & Bridgeman, B (2017). Attention and memory-driven effects in action studies. *Behavioral and Brain Sciences*, 39, e259, 48-49.
15. Juan, CH*, **Tseng, P**, & Hsu, TY (2017). Elucidating and modulating the neural correlates of visuospatial working memory via noninvasive brain stimulation. *Current Directions in Psychological Science*, 26(2), 165-173.
16. Lane, TJ*, Yeh, S-L*, **Tseng, P**, & Chang, AY (2017). Timing disownership experiences in the rubber hand illusion. *Cognitive Research: Principles and Implications*, 2(1), 1-14.
17. Hsu, TY*, Juan, CH, **Tseng, P*** (2016). Individual differences and state-dependent responses in transcranial direct current stimulation. *Frontiers in Neuroscience*, 10:643.
18. **Tseng, P**, Chang, YT, Liang, WK, Chang, CF, & Juan, CH* (2016). The critical role of phase difference in gamma oscillation within the temporoparietal network for binding visual working memory. *Scientific Reports*, 6, 32138.
19. Wu, Y-J, **Tseng, P**, Huang, H-W, Hu, J-F, Juan, CH, Hsu, K-S, & Lin C-C* (2016). The facilitative effect of transcranial direct current stimulation on visuospatial working memory in patients with diabetic polyneuropathy: a pre-post sham-controlled study. *Frontiers in Neuroscience*, 10, 479.
20. Huang, S-L, **Tseng, P**, & Liang, WK* (2015). Dynamical change of signal complexity in the brain during inhibitory control processes. *Entropy*, 17, 6834-6853.
21. Davoli, C, & **Tseng, P*** (2015). Taking a hands-on approach: Current perspectives on the effect of hand position on vision. *Frontiers in Psychology*, 6:1231.
22. Yu, J, **Tseng, P**, Hung, DL, Wu, S-W, & Juan, CH* (2015). Brain stimulation improves cognitive control by modulating medial-frontal activity and preSMA-vmPFC functional connectivity. *Human Brain Mapping*, 36(10), 4004-4015.
23. Moreau, D*, Wang, C-H, **Tseng, P**, Juan, CH (2015). Blending transcranial direct current stimulations and physical exercise to maximize cognitive improvement. *Frontiers in Psychology*, 6, 678.
24. Yu, J, **Tseng, P**, Muggleton, NG, & Juan, CH* (2015). Being watched by others eliminates the effect of emotional arousal on inhibitory control. *Frontiers in Psychology*, 6, 4.
 This article was featured on inverse.com to explain TV series *Westworld*:
<https://www.inverse.com/article/44382-westworld-episode-two-season-two-surveillance>
25. Yang, C-T*, **Tseng, P**, & Wu, Y-J (2015). The effect of decision load on whole-display superiority in change detection. *Attention, Perception, & Psychophysics*, 77(3), 749-758.
26. Wang, C-H., Liang, WK, **Tseng, P**, Muggleton, NG, Juan, CH, & Tsai, CL* (2015). The relation of aerobic fitness to neural oscillations during visuo-spatial attention in young adults. *Experimental Brain Research*, 233(4), 1069-1078.
27. **Tseng, P***, Yu, J, Tzeng, OJL, Hung, DL, & Juan, CH (2014). Hand proximity facilitates spatial

- discrimination of auditory tones. *Frontiers in Psychology*, 5, 527.
28. Wang, C-H, Tsai, C-L*, **Tseng, P**, Yang, AC, Lo, M-T, Peng, C-K, Wang, H-Y, Muggleton, NG, Juan, CH, & Liang, WK* (2014). The association of physical activity to neural adaptability during visuo-spatial processing in healthy elderly adults: A multiscale entropy analysis. *Brain & Cognition*, 92, 73-83.
 29. Tseng, L-Y[†], **Tseng, P[†]**, Yu, J, Liang, WK, Hung, DL, Tzeng, OJL, Muggleton, NG, & Juan, CH* (2014). The role the superior temporal sulcus in the control of irrelevant emotional face processing: a transcranial direct current stimulation study. *Neuropsychologia*, 64, 124-133. ([†]equal contribution)
 30. Wu, Y-J, **Tseng, P**, Chang, CF, Pai, M-C, Hsu, K-S, Lin, C-C*, Juan, CH* (2014). Modulating the interference effect on spatial working memory by applying transcranial direct current stimulation over the right dorsolateral prefrontal cortex. *Brain & Cognition*, 91, 87-94.
 31. Hsu, TY, **Tseng, P**, Liang, W-K, Cheng, S-K, & Juan, CH* (2014). Transcranial direct current stimulation over right posterior parietal cortex change prestimulus alpha oscillation in visual short-term memory task. *NeuroImage*, 98, 306-313.
 32. Liang, W-K*, Lo, M-T, Yang, AC, Peng, C-K, **Tseng, P**, & Juan, CH* (2014). Revealing the brain's adaptability and the transcranial direct current stimulation facilitating effect in inhibitory control by multiscale entropy. *NeuroImage*, 90, 218-234.
 33. **Tseng, P**, Chang, CF, Chiau, HY, Liang, WK, Liu, CL, Hsu, TY, Hung, DL, Tzeng, OJL, & Juan, CH* (2013). The dorsal attentional system in oculomotor learning of predictive information. *Frontiers in Human Neuroscience*, 7(404).
 34. **Tseng, P***, & Juan, CH (2013). Virtual reality in the neuroscience of multisensory integration and consciousness of bodily self. *Journal of Neuroscience and Neuroengineering*, 2(4), 387-392.
 35. Wang, C-H, Chang, CC, Liang, YM, Shih, CM, Chiu, WS, **Tseng, P**, Hung, DL, Tzeng, OJL, Muggleton, NG, & Juan, CH* (2013). Open vs. closed sports and the modulation of inhibitory control. *PLoS ONE*, 8(2):e55773.
 36. Chang, CF, Hsu, TY, **Tseng, P**, Liang, WL, Tzeng, OJL, Hung, DL & Juan, CH* (2013). Right temporo-parietal junction and attentional reorienting. *Human Brain Mapping*, 34, 869-877.
 37. **Tseng, P***, Bridgeman, B, & Juan, CH* (2012). Take the matter into your own hands: A brief review of the effect of nearby-hands on visual processing. *Vision Research*, 72, 74-77.
 38. Yang, C-T*, **Tseng, P**, Huang, KY, Yeh, YY (2012). Prepared or not prepared: Top-down modulation on memory of features and feature bindings. *Acta Psychologica*, 141, 327-335.
 39. **Tseng, P**, Hsu, TY, Chang, CF, Tzeng, OJL, Hung, DL, Muggleton, NG, Walsh, V, Liang, WK, Cheng, SK, & Juan, CH* (2012). Unleashing potential: transcranial direct current stimulation over the right posterior parietal cortex improves change detection in low-performing individuals. *Journal of Neuroscience*, 32, 10554-10561.
 40. Yu, J, Hung, DL, **Tseng, P**, Tzeng, OJL, Muggleton, NG, & Juan, CH* (2012). Sex differences in how erotic and painful stimuli impair inhibitory control. *Cognition*, 124, 251-255.
 41. Liu, CH, Tzeng, OJL*, Hung, DL, **Tseng, P**, & Juan, CH* (2012). Investigation of bistable perception with "silhouette spinner": Sit still, spin the dancer with your will. *Vision Research*, 60, 34-39.
 42. **Tseng, P**, Chiau, HY, Liu, CL, Hsu, TY, Chang, CF, Chao, CM, Liang, WK, & Juan, CH* (2012). Neural

- mechanisms of implicit visual probability learning. *Chinese Journal of Psychology*, 54, 115-131.
43. Lathrop, B*, Bridgeman, B, & **Tseng, P** (2011). Perception in the absence of attention: evidence of perceptual processing in the roelofs effect during conditions of inattentive blindness. *Perception*, 40, 1104-1119.
 44. **Tseng, P***, Hsu, TY, Tzeng, OJL, Hung, DL, & Juan, CH* (2011). Probabilities in implicit learning. *Perception*, 40, 822-829.
 45. **Tseng, P*** & Bridgeman, B (2011). Improved change detection with nearby hands. *Experimental Brain Research*, 209, 257-269.
 46. Chiau, HY, **Tseng, P**, Su, JH, Tzeng, OJ L, Hung, DL, Muggleton, NG, & Juan, CH* (2011). Trial type probability modulates the cost of antisaccades. *Journal of Neurophysiology*, 106, 515-526.
 47. Bridgeman, B*, & **Tseng, P** (2011). Embodied cognition and perception-action link. *Physics of Life Reviews*, 8, 73-85.
 48. Chao, CM, **Tseng, P**, Hsu, TY, Su, JH, Tzeng, OJL, Hung, DL, Muggleton, NG, & Juan, CH* (2011). Predictability of saccadic behaviors is modified by transcranial magnetic stimulation over human posterior parietal cortex. *Human Brain Mapping*, 32, 1961-1972.
 49. Amazeen, EL*, **Tseng, P**, Valdez, AB, & Vera, D (2011). Perceived heaviness is influenced by the style of lifting. *Ecological Psychology*, 23, 1-18.
 50. **Tseng, P***, Tuennermann, J, Roker-Knight, N, Winter, D, Scharlau, I, & Bridgeman, B (2010). Enhancing implicit change detection through action. *Perception*, 39, 1311-1321.
 51. **Tseng, P**, Hsu, TY, Muggleton, NG, Tzeng, OJL, Hung, DL, & Juan, CH* (2010). Posterior parietal cortex mediates encoding and maintenance processes in change blindness. *Neuropsychologia*, 48, 1063-1070.
 52. Hsu, TY, Cheng, SK, Hung, DL, Tzeng, OJL, Juan, CH*, & **Tseng, P** (2010). The perseverance of numerical distance effect in attentional blink. *Perception*, 39, 1526-1540.
 53. Liu, CL, **Tseng, P**, Chiau, HY, Liang, WK, Hung, DL, Tzeng, OJL, Muggleton, NG, & Juan, CH* (2010). The location probability effects of saccade reaction times are modulated in the frontal eye fields but not in the supplementary eye field. *Cerebral Cortex*, 21, 1416-1425.
 54. Liu, CL, Chiau, HY, **Tseng, P**, Hung, DL, Tzeng, OJL, Muggleton, NG, & Juan, CH* (2010). The antisaccade cost is modulated by contextual experience of location probability. *Journal of Neurophysiology*, 103, 1438-1447.
 55. Bridgeman, B*, Winter, D, & **Tseng, P** (2010). Phenomenology of grapheme-color synesthesia. *Perception*, 39, 671-676.
 56. Sampanes, AC, **Tseng, P**, & Bridgeman, B* (2008). The role of gist in scene recognition. *Vision Research*, 48, 2275-2283.

Popular Science Contributions

Writings

- Scientific American (Taiwan) 科學人 2020 July: 談心說理—用巨量資料看人心
- Scientific American (Taiwan) 科學人 2020 July: 談心說理—外野手眼中的高飛球
- Scientific American (Taiwan) 科學人 2020 May: 談心說理—無限循環緊張感的「薛帕德音」
- Scientific American (Taiwan) 科學人 2020 Jan: 談心說理—視而不見的專業
- Scientific American (Taiwan) 科學人 2019 Dec: 談心說理—看出圖像設計的巧思
- Scientific American (Taiwan) 科學人 2018 May: 聊聊科學人
- Scientific American (Taiwan) 科學人 2018 Mar: 意識測量儀初登場
- Scientific American (Taiwan) 科學人 2015 Feb: 迎接個人化的大腦神經微調技術

TV & Radio Interviews

- CTS 華視 2020 Aug: 《TELL ME 歪歪歪》腦波到底是什麼！
- Taichung Radio Station (FM 100.7) 台中廣播 2019 Oct: 《我是新住民》
- Hakka TV Station 2018 Oct: 《小 O 事件簿》
- National Education Radio (FM 101.7) 國立教育廣播電台 2018 Oct: 《教育開講》
- Good News Radio (FM 90.9) 佳音廣播電台 2018 Jul: 《趨勢領航》

Patent

(Filed with Volkswagen Electronics Research Lab, USA)

1. **Tseng, P**, Lathrop, B, Sison, JA, & Juarez, C. (2017) Navigation Methods and Devices Using User-Specific Landmark Types.
 - *United States Patent and Trademark Office: US 9,618,354 B2*
 - *European Patent Office: EP2607852 A2 and EP20120008443*

Books & Chapters

- Tseng, P., Davoli, C., eds. (2015). Taking a Hands-On Approach: Current Perspectives on the Effect of Hand Position on Vision. Lausanne, Switzerland: Frontiers Media.
ISSN: 1664-8714 ISBN: 288919664X, 9782889196647 doi: 10.3389/978-2-88919-664-7

Academic Services

- Ad Hoc Reviewer for **40** Peer-reviewed Journals (alphabetical order):
 1. *Attention, Perception, and Psychophysics,*
 2. *BMC Psychiatry,*
 3. *Brain Research,*
 4. *Brain Sciences*
 5. *British Journal of Psychology,*
 6. *Canadian Journal of Experimental Psychology,*
 7. *Chinese Journal of Psychology,*
 8. *Clinical Neurology and Neurosurgery*
 9. *Cognition,*
 10. *Cognitive Computation,*
 11. *Cognitive Processing,*
 12. *Consciousness and Cognition,*
 13. *Cortex,*
 14. *Experimental Brain Research,*
 15. *Frontiers in Aging Neuroscience,*
 16. *Frontiers in Human Neuroscience,*
 17. *Frontiers in Psychology,*
 18. *i-Perception,*
 19. *Journal of Advanced Transportation,*
 20. *Journal of Experimental Psychology: Applied,*
 21. *Journal of Experimental Psychology: General,*
 22. *Journal of Experimental Psychology: Human Perception and Performance,*
 23. *Journal of Neuroscience and Neuroengineering,*
 24. *Journal of the Neurological Sciences,*
 25. *Neural Plasticity,*
 26. *NeuroImage,*
 27. *Neuropsychologia,*
 28. *Neuroscience,*
 29. *Neuroscience Letters,*
 30. *New Mathematics and Natural Computation,*
 31. *Perception,*
 32. *Philosophical Transactions of the Royal Society – Biological Sciences,*
 33. *Psychologia,*
 34. *Psychology and Neuroscience,*
 35. *Psychonomic Bulletin & Review,*
 36. *Psychological Science,*
 37. *Scientific Reports,*
 38. *Transactions on Applied Perception,*
 39. *Vision Research,*
 40. *Visual Cognition*

Academic Services

- Regular Review Editor: *Frontiers in Integrative Neuroscience*
- Guest Associate Editor: *Frontiers in Psychology, Perception Science*
- Regular Committee Member for JIRB at Taipei Medical University (since 2018)

- Ad Hoc Reviewer for International Funding Agencies:
 - European Commission – MCSA Horizon 2020, European Union (6 reviews, 850 experts worldwide)
 - National Science Foundation (NSF), USA
 - Auckland Medical Research Foundation, New Zealand
 - Rutherford Discovery Fellowship, New Zealand

- Ad Hoc Reviewer for Academic Societies and others:
 - Academia Sinica Young Scholar Award (中央研究院年輕學者研究著作獎)
 - Taiwan Society of Cognitive Neuroscience (臺灣認知神經科學學會)
 - Research Square, USA

Conference Abstracts and Presentations

- *June, 2007* *North American Society for the Psychology of Sport and Physical Activity*
Effects of lifting on the perception of weight
- *May, 2008* *Vision Sciences Society*
The role of gist in scene recognition
- *Nov., 2008* *Psychonomics*
Mindsight in action: A sensorimotor advantage to implicit change detection
- *March, 2009* *Cognitive Neuroscience Society*
Posterior parietal cortex mediates encoding processes in change blindness
- *May, 2009* *Vision Sciences Society*
Change blindness is reduced with responses that afford action
- *Nov., 2009* *Psychonomics*
Posterior parietal cortex mediates encoding and maintenance processes in change blindness
- *May, 2010* *Vision Sciences Society*
Information at hand is detected better in change detection
- *May, 2010* *Vision Sciences Society*
Dynamic grapheme-color synesthesia
- *April, 2011* *Cognitive Neuroscience Society*
Increasing visual working memory capacity with transcranial direct current stimulation
- *May, 2012* *Vision Sciences Society*
Improving visual short-term memory: Evidence from transcranial direct current stimulation and event-related potentials
- *Oct, 2013* *Taiwan Psychological Association*
Hosted symposium on “Introduction to non-invasive brain stimulation”
- *June, 2014* *Organization for Human Brain Mapping*

- Anodal tDCS over right DLPFC protects spatial working memory from motor dual-task interference
- *Aug., 2015* *1st International Taiwanese Congress of Neurology*
Facilitating spatial working memory in patients with diabetic polyneuropathy by transcranial direct current stimulation
 - *Jan., 2016* *Taiwan Cognitive Neuroscience Society*
The critical role of phase difference in gamma oscillation within the temporoparietal network for binding visual working memory
 - *Aug., 2017* *International Conference for Neuroscience*
Loss aversion as a main predictor of financial dishonesty
 - *Aug., 2017* *International Conference for Neuroscience*
Working memory-based electrophysiological markers to spoken misleading lies
 - *Sept., 2017* *International Conference on Cognitive Science*
Dissociation of intention and personal force in judgments of moral dilemma
 - *Sept., 2017* *International Conference on Cognitive Science*
Ill intention is the key to trigger the moral alarm: Cultural variations in moral judgments in harm and purity domains
 - *Jan., 2018* *Taiwan Cognitive Neuroscience Society*
Does Picture Angle Really Matter in the Guilty Knowledge Lie Detection Test?
 - *March, 2019* *International Convention of Psychological Science*
Laboratory Behavioral Predictors of Driving Performance
 - *March, 2019* *International Convention of Psychological Science*
The Effect of “Camouflaged” Implicit Cues on Visual Attentional Orienting
 - *Jan., 2020* *Taiwan Cognitive Neuroscience Society*
The effect of visual statistical learning in RSVP: Implicit learning or stream location artifact?

Invited Talks

- *June, 2007* *University of California, Santa Cruz*
The role of gist in change blindness
- *June, 2008* *University of California, Santa Cruz*
Mindsight in action: A sensorimotor advantage to implicit change detection
- *July, 2009* *National Central University, Taiwan*
Differential probabilities in contextual cuing
- *August, 2009* *National Taiwan University, Taiwan*
Change detection enhancement by motor engagement
- *October, 2009* *University of California, Santa Cruz*
Visual short-term memory, scene perception and representation, and implicit learning in vision
- *June, 2010* *University of California, Santa Cruz*
Attentional prioritization and improved change detection near the hands
- *Nov., 2010* *University of California, Santa Cruz*

- Perception and action in change blindness

- Oct., 2011 *National Cheng Kung University, Taiwan*
Improving change detection with an attentional boost
- May., 2013 *National Central University, Taiwan*
Improved explicit and implicit change detection with nearby hands and action
- Oct., 2013 *National Chengchi University, Taiwan*
How do we improve visual working memory? From action-based approaches to brain stimulation
- Feb., 2014 *National University of Singapore*
How do we improve visual working memory in young and old?
- May, 2014 *University of Edinburgh*
What can brain stimulation do for visual working memory?
- Jan, 2015 *National Chiao-Tung University, Taiwan*
Natural Cognition: Brain stimulation and visual working memory
- Oct, 2015 *Kanazawa Institute of Technology, Japan*
Featural and binding representation in visual memory enhanced via direct and alternating current stimulation
- Oct, 2015 *National Chung-Cheng University, Taiwan*
Embodied cognition and its impact on visual attention and memory
- May, 2016 *National Taiwan University, Taiwan*
Memory-based approach to investigating deception: A brief history and some data
- Nov, 2016 *National Institute of Mental Health, Bach Mai Hospital, Hanoi, Vietnam*
Enhancing visual memory with noninvasive brain stimulation: From basic science to clinical applications
- Oct, 2018 *Graduate Institute of Brain Science, National Yang Ming University, Taiwan*
Memory-based behavioral and EEG markers of deception
- Feb., 2019 *Indian Institute of Technology, Kanpur*
Improving visual memory with noninvasive brain stimulation
- Mar., 2019 *Kokoro Research Center, Kyoto University, Japan*
What can brain stimulation do for visual memory?
- April, 2019 *National Taiwan Normal University, Taiwan*
Visual recognition in the brain
- April, 2019 *Judiciary Reform Foundation*
EEG marker of visual recognition
- Sept, 2019 *MediaTek*
Scientific study of consciousness
- June, 2020 *National Taipei University of Technology*
The visual brain (and P300)
- June, 2020 *Industrial Technology Research Institute*
Rhythm in the brain
- July, 2020 *Dept. of Forensic Science, Ministry of Justice Investigation Bureau*
Introduction to EEG and its applications in the detection of deception

- *Aug, 2020* *Brain and Consciousness Laboratory, National Taiwan University*
EEG detection of concealed information
- *Aug, 2020* *Research Center for Information Technology Innovation, Academia Sinica*
Detection of deception: A cognitive neuroscience perspective
- *Sept, 2020* *Faculty of Psychology, Universitas Diponegoro, Indonesia*
Lie detection using cognitive and neuroscientific methods: A brief overview
- *Sept, 2020* 中華民國律師公會
 1. Lie detection in the age of neuroscience
 2. Jinkai Chen: A malingerer or blindsight patient?

Teaching

TMU Undergraduate (since 2015):

- The Detective in the Brain: Sensation, Perception, and Illusions
- Introduction to General Psychology
- Philosophy and Science of Consciousness

TMU Graduate (since 2016):

- Introduction to Mind, Brain, and Consciousness
- Theories in Consciousness and Cognition
- Neuroimaging: From Neuron to Brain
- Neuroscience: Ethical Issues & Legal policy

Teaching Assistantships

UCSD:

- *2004 Fall* Intro to Statistics (with Dr. Tim Rickard)
- *2005 Spring* Illusions and the Brain (with Dr. Diana Deutsch)

ASU:

- *Spring 2006* Intro to Psychology (with Dr. Robert Short)

UCSC:

- *Fall 2006* Psychology and Religion (with Dr. Ralph Quinn)
- *Winter 2007* Behavioral Neuroscience (with Dr. Bruce Bridgeman)
- *Fall 2007* Aging and Human Brain (with Dr. Qiang Liu)
- *Winter 2008* Intro to Statistics (with Dr. Qiang Liu)
- *Spring 2008* Human Factors (with Dr. Jeff Crowson)
- *Fall 2008* Deception, Brain, and Behavior (with Dr. Travis Seymour)
- *Winter 2009* Intro to Statistics (with Dr. Qiang Liu)
- *Spring 2009* Intro to Statistics (with Dr. Litze Hu)
- *Fall 2009* Psychology and Religion (with Dr. Ralph Quinn)
- *Winter 2010* Intro to Psychology (with Dr. Alan Kawamoto, Dr. Faye Crosby, & Dr. Catherine Cooper)
- *Spring 2010* Intro to Psychology (with Dr. Alan Kawamoto, Dr. Faye Crosby, & Dr. Catherine Cooper)
- *Fall 2010* Aging and Human Brain (with Dr. Qiang Liu)