

CURRICULUM VITAE

Chi-Hung Juan D.Phil.

Address: Institute of Cognitive Neuroscience
National Central University (NCU)
No. 300 Jhongda Road, Jhongli City 32001 TAIWAN
TEL: +886-3-4274738
FAX: +886-3-4263502
E-mail: chijuan@cc.ncu.edu.tw; chihungjuan@gmail.com

EDUCATION

1998 –2002 (D. Phil)

Department of Experimental Psychology, University of Oxford, UK
(Supervised by Professors Vincent Walsh, Peter McLeod and Alan Cowey)
Doctor of Philosophy awarded March 2002.

In my PhD work, I used psychophysical methods, TMS and eye-tracking techniques to investigate the putative dichotomy of preattentive and attentive processes. I studied this topic by using different paradigms such as visual search and enumeration and discussed it in relation to behavioral and neuropsychological data. I found that this well established dichotomy is very vulnerable under critical examination. In fact the dichotomy even becomes a redundant concept if perceptual manipulations are well controlled.

1993 – 1995 (Master)

Graduate Institute of Behavioral Sciences, Kaohsiung Medical University, Taiwan.
(Supervised by Dr Chih-Ta Tai)
Master of Science awarded July 1995.

I used computerized cognitive experiments, the Wisconsin Card Sorting Test and Hamilton's Depression Rating Scale to investigate the executive functions of parkinsonian patients. I found that patients' reaction time significantly increased when they were doing a set-shifting task. This deficit is significantly positively-correlated with subjects' scores on Hamilton's depression scale.

1989 – 1993 (Bachelor)

School of Psychology, Kaohsiung Medical University, Taiwan
Bachelor of Science awarded June 1993.

Through my undergraduate degree course, I developed a broad understanding of different domains of Psychology such as Developmental, Social, Occupational, Clinical, Cognitive, Behavioral and Physiological Psychology. In addition, I undertook my practical training in Clinical Psychology in Kaohsiung Tzu-Hui Psychiatric Hospital and my practical courses in Clinical Neuropsychology in Taipei Veteran General Hospital and Kaohsiung Medical University Hospital.

CURRENT POSITION

Director, Preparatory office of Cognitive Intelligence and Precision Health Research Center (CIPH), National Central University

University Chair Professor, National Central University

August 2014 et seq

I currently have an active laboratory with 1 postdoctoral research associate, 6 PhD, 6 MSc and 2 undergraduate students working on various projects with Transcranial Magnetic Stimulation/ Transcranial Direct Current Stimulation, Eye Tracker, Event Related Potentials and functional Magnetic Resonance Imaging- e.g., neural mechanisms of visual attention, eye movements and the inhibitory control, motion perception and the application of cognitive neuroscience in education. My domestic collaborative laboratories include Professor Neil Muggleton's Brain and Behavior Laboratory, Dr Shih-Kuen Cheng's Electrophysiology and Human Memory Laboratory in my institute, and Dr Wen-Jen Kuo's fMRI and frontal function laboratory in the Institute of Neuroscience, National Yang-Ming University. I have active and close ongoing collaborations with these domestic researchers and have also published several papers together on related topics. I will lend their expertise on EEG, fMRI and work closely to execute the experiments timely and publish our work in first rate journals. My international collaborators and consultants include: Professor Vincent Walsh (Applied Cognitive Neuroscience at Institute of Cognitive Neuroscience, University College London, UK); Professor Anne Nobre (Director of the Oxford Centre for Human Brain Activity (OHBA), Brain and Cognition Laboratory, Oxford University, UK); Professor Gui Xue (National Key Laboratory of Cognitive Neuroscience & Learning), Dr. Jun Fan (Department of Psychiatry, Mount Sinai School of Medicine), Professor Zhong-Lin Lu (Director of the Center for Cognitive and Behavioral Brain Imaging, Arts & Sciences, The Ohio State University, USA), Professor Paul Burgess (Institute of Cognitive Neuroscience & Department of Psychology, University College London) and Professor Ian Apperly (School of Psychology, University of Birmingham). I have been working with these world-leading researchers in human brain function for several years and will continue doing so to obtain the most cutting edge techniques, research issues and trends.

EXPERIENCE

August 2020 et seq

Dean, College of Health Sciences and Technology, National Central University

January 2020 et seq

Director, Cognitive Intelligence and Precision Healthcare Research Center (CIPH), National Central University

April 2015~January 2020

Director, Brain Research Center, College of Health Sciences and Technology, National Central University

August 2014 et seq

Chair Professor, Institute of Cognitive Neuroscience, National Central University

January 2012 et seq

Distinguished Professor, Institute of Cognitive Neuroscience, National Central University

August 2011 et seq

Professor

Institute of Cognitive Neuroscience, National Central University, Jhongli, Taiwan

August 2012~April 2013

Vice Dean, College of Science, National Central University

July 2011~August 2011

Visiting Professor

**Department of Experimental Psychology & Department of Psychiatry,
University of Oxford, UK**

I visited Professor Anne Nobre's Brain and Cognition Laboratory for one and half month to carry out a joint project "Investigation of the intertwined relationship between the dorsal and the ventral attentional system in the parietal cortex" funded by the National Science Council, Taiwan. One of my PhD students has been visiting Professor Nobre's lab for one year to accomplish the project.

August 2008~July 2011

Associate Professor,

Institute of Cognitive Neuroscience, National Central University, Jhongli, Taiwan

I trained 8 MSc and 1 PhD students and published 10 peer-reviewed papers in the scientific journals during this period of time. We also extend our research line to the development of attentional control in preschoolers and the neural mechanisms of inhibitory control.

August 2009~February 2010

Visiting Scholar (Fulbright Scholar)

Department of Cognitive Sciences, University of California, Irvine, USA

I took six months of sabbatical leave to visit the world-class institution of Cognitive Sciences, namely, Department of Cognitive Sciences, University of California, Irvine, USA (Joint supported by the National Science Council and the Fulbright Scholarship). During my visit, I participated three groups' lab meetings every week, including: Professors Alyssa Brewer; Emily Grossman and Ramesh Srinivasan. By doing so, I have learned a great deal of latest knowledge on fMRI analysis, EEG frequency analysis and also on biological motion. I also took this opportunity to discuss my ongoing collaborations with Professor Zhong-Lin Lu at University of Southern California. In addition, I had fruitful discussions on psychological modeling with Professor George Sperling. I also worked on many manuscripts during the sabbatical leave and resulted in five publications in the international journals.

August 2003~July 2008

Assistant Professor

Institute of Cognitive Neuroscience, National Central University, Jhongli, Taiwan

I am a founding faculty member of the Institute of Cognitive Neuroscience, National Central University. The institute is the first institute devoted to promote excellent research in cognitive

and brain science in Taiwan. My administrative responsibilities include the planning and execution of the development in the institute, the recruitment of new faculty members and the promotion of cognitive neuroscience in Taiwan. In the regard of my research, I have setup an integrative laboratory for testing human subjects involving eye-tracking, transcranial magnetic stimulation, frameless stereotaxy system and electromyogram.

March 2002~August 2003

**Postdoctoral Research Associate to Professor Jeffrey Schall
Department of Psychology, Vanderbilt University, TN, USA**

My responsibilities in Professor Schall's group include designing and carrying out microstimulation experiments; setting-up a brand new laboratory for testing awake-behaving monkeys- involving eye-tracking, single-unit recording and microstimulation systems; and analysing single-unit recording data for publication. I also participate in a regular meeting for cognitive and neurophysiological modelling hosted by Professors Gordon Logan and Tom Palmeri and Jeff Schall.

October 1998~March 2002

**Research Assistant to Professor Vincent Walsh (Part-time)
Department of Experimental Psychology, University of Oxford, UK**

Aside from experimental investigation of my various research questions, my duties in Dr Walsh's group included the setting up of our Transcranial Magnetic Stimulation (TMS), Psychophysics and Eye-Movements laboratories and the training of newcomers including staff, students and visitors to use these facilities. It was also my responsibility to incorporate new methods of TMS application and other techniques within our current framework e.g. eye movements, bistim, distal technique, frameless stereotaxy, electromyography etc., as well as the introduction and integration of new research directions to the group.

June 1997~July 1998

**Research Assistant to Professors Ovid Tzeng and Daisy Hung
Laboratory for Cognitive Neuropsychology, National Yang-Ming University, Taiwan**

Responsibilities included carrying out cognitive experiments to investigate gifted students' spatial abilities and co-organizing the annual meeting of Chinese Psychological Society. I also participated in projects in the Brain Imaging Center of Taipei Veteran General Hospital. Under the supervision of Professors Tzeng and Hung, I acquired an enormous amount of knowledge, both theoretical and practical. It was on this basis that I established my further career in Cognitive Psychology and Cognitive Neuroscience.

July 1995~June 1997

Obligatory National Military Service (Navy, Junior-Lieutenant)

My duties included assisting a medical doctor in the treatment of patients and counselling of soldiers with psychological difficulties on an active warship.

November 1993~May 1995

**Clinical Neuropsychologist (Part-time)
Department of Neurology, Kaohsiung Medical University Hospital, Taiwan**

My role involved the assessments of cognitive abilities/deficits in patients with Parkinson's disease, Alzheimer's disease or cerebrovascular diseases.

November 1993~May 1995

**Research Assistant to Dr. Chih-Ta Tai and Professor Chun-Kuan Liu (Part-time)
Graduate Institute of Behavioral Sciences, Kaohsiung Medical University, Taiwan**

My duties included programming computerized cognitive experiments and surveying the prevalence of Alzheimer's disease in the south Taiwan.

FIELD OF SPECIALTY

The neural mechanism of visual attention and oculomotor control
The neural mechanisms and neuromodulation of the inhibitory control
The development of attentional and inhibitory control in preschoolers
Neural correlates of numerical cognition
The application of Transcranial Magnetic Stimulation in Cognitive Neuroscience
The application of Transcranial Direct Current Stimulation in Cognitive Neuroscience

HONORS & AWARDS

2019 The 23rd Outstanding Alumni Award", Kaohsiung Medical University
2019 "Academic Summit Program" , Ministry of Science and Technology, Taiwan (for 5 years)
2019 The TWAS(The World Academy of Sciences) Award in Social Sciences
2018 The Inaugural Outstanding Research Award in memory of former NCU President Jialun Luo, National Central University
2017 Chair Professorship, National Central University
2016 "Outstanding Research Award", Ministry of Science and Technology, Taiwan (for 3 years)
2015 The Academic Award (Category: Social Science), Ministry of Education, Taiwan
2015 Fellow, Association of Psychological Science, USA
2015 Fellow, The Psychonomic Society, USA
2014 Chair Professorship, National Central University
2013 Distinguished Young Researcher and Teacher, National Central University (for 3 years)
2013 "Outstanding Research Award", National Science Council, Taiwan (for 3 years)
2012 Distinguished Professorship, National Central University
2010 "Outstanding Research Award", National Science Council, Taiwan (for 3 years)
2010 Invited Speaker in the 7th International Conference on Cognitive Science (ICCS2010)
2010 "Outstanding Tutor Award", National Central University
2011, 2010, 2006 "Outstanding Research Award", National Central University
2009 Fulbright Scholar, Fulbright Scholar Program, USA-Taiwan

2008 Invited Panelist in 16th International Conference on Computers in Education, Taipei, Taiwan. Educational Games are Harmful to our Kids

2008 National Central University Teaching Excellence Award

2006 Academia Sinica Research Award for Junior Research Investigators

2005 Invited Symposium Speaker in European Brain and Behaviour Society, Dublin, Ireland

2004 Invited Speaker in the International Symposium on Cognitive Neuroscience (ISCN), HK

2000 650th Anniversary Trust Fund, The Queen's College, University of Oxford, UK

1999~2001 McDonnell-Pew Studentships, Centre for Cognitive Neuroscience, University of Oxford, UK

References

Professor Robert Desimone
Member, National Academy of Sciences, USA

Department of Brain and Cognitive Sciences
Massachusetts Institute of Technology
77 Massachusetts Ave.
Cambridge, MA 02139, USA

Tel: +1(617) 258 9344
Fax: +1(617) 258 9344
email: desimone@mit.edu

Professor Ovid JL Tzeng,
Academician, Academia Sinica

Distinguished Professor
Institute of Linguistics
Academia Sinica, Taipei, Taiwan

Tel: +886-2-2652-3111
Fax: +886-2-2789-3494
email: ovid@gate.sinica.edu.tw

Professor Norden E. Huang
Academician, Academia Sinica
Member, National Academy of Engineering

Director of Research Center for Adaptive Data Analysis;
K.T.Lee Chair Professor of National Central University,
National Central University, Taoyuan, Taiwan
Tel: +886-3-422-7151 ext. 34950
email: norden@ncu.edu.tw

Professor Kia Nobre

Head, Department of Experimental Psychology
Director, Oxford Human Brain Activity Centre
University of Oxford
email: kia.nobre@ohba.ox.ac.uk

Professor George Sperling
Member, National Academy of Sciences, US

Department of Cognitive Sciences
University of California, Irvine
Irvine, CA 92697-5100

Tel: +1 949-824-3904
Fax: +1 949-824-2307
email: sperling@uci.edu

Professor Vincent Walsh

Institute of Cognitive Neuroscience
University College London
17 Queen Square
London, WC1N 3AR, UK

Tel: +44 (0) 2076 791 162
Fax: +44 (0) 2078 132 835
email: v.walsh@ucl.ac.uk

Professor Jin Fan

Department of Psychology Queens College,
City University of New York (CUNY), USA
65-30 Kissena Boulevard Flushing, NY 11367
Tel: +1 718-997-4139
Fax: +1 718-570-0363
email: Jin.Fan@qc.cuny.edu

Professor Jeffrey Schall

E. Bronson Ingram Professor of Neuroscience
Director, Center for Integrative & Cognitive Neuroscience
Director, Vanderbilt Vision Research Center
Department of Psychology
Wilson Hall, Vanderbilt University
Nashville, 37240, TN, USA

Tel: +1 615-322-0868
Fax: +1 615-343-8449
email: jeffrey.d.schall@vanderbilt.edu

Patents:

1. System and Method for Electric Brain Stimulator (頭顱電刺激的系統及方法): 中華民國專利發明第 I581818號。(May, 2017)

Book:

1. Learn to Read & Read to Learn (2010). By Jun-Ren Lee, **Chi-Hung Juan** et al., Hsin-Yi Foundation Publisher, Taipei, Taiwan (ISBN 978-986-161-401-4) (**Citations: 5 (Gs)**).

Journal articles: (* denotes corresponding author; citations updated on 14 January, 2020)

1. Kuo, IJ, Tang, CW, Tsai, YA, Tang, SC, Lin, CJ, Hsu, SP, Liang, WK, **Juan, CH**, Zich, C., Stagg, C., Lee, IH. (June, 2020). Neurophysiological signatures of hand motor response to dual-transcranial direct current stimulation in subacute stroke: a TMS and MEG study. *Journal of NeuroEngineering and Rehabilitation*, 17(1):72, 1-12. (**SCI, IF: 3.519; Ranking: 24/87(Engineering, biomedical), 104/271(Neurosciences) & 5/68(Rehabilitation)**).
2. Feng, XJ, Huang, Y-T, Huang, Y-Z, Kuo, CW, Peng, CW, Rotenberg, A., **Juan, CH**, Pei, YC, Chen, YH, Chen, KY, Chiang, YH, Liu, HH, Wu, JX, Hsieh, TH. (May, 2020). Early transcranial direct current stimulation treatment exerts neuroprotective effects on 6-OHDA-induced Parkinsonism in rats. *Brain Stimulation*, 13(3): 655-663. (**SCI, IF: 6.919; Ranking: 14/199(Clinical Neurology) & 22/267(Neurosciences)**).
3. Li, CT, Cheng, CM, Chen, MH, **Juan, CH**, Tu, PC, Bai, YM, Jeng, JS, Lin, WC, Tsai, SJ, Su, TP. (Mar, 2020). Antidepressant Efficacy of Prolonged Intermittent Theta Burst Stimulation Monotherapy for Recurrent Depression and Comparison of Methods for Coil Positioning: A Randomized, Double-Blind, Sham-controlled Study. *Biological Psychiatry*, 87(5):443-450. (**SCI, IF: 11.5; Ranking: 12/267 (Neurosciences) & 7/146(Psychiatry); Citations: 1(Gs)**).
4. Nguyen, K., Liang, WK, Muggleton, N. G., Huang, N. E., **Juan, CH***. (Dec, 2019). Human visual steady-state responses to amplitude-modulated flicker: Latency measurement. *Journal of Vision*, 19(14):14, 1–17. (**Corresponding Author; SCI, IF: 2.089; Ranking: 29/60(Ophthalmology)**).
5. Liu, HH, He, XK, Chen, HY, Peng, CW, Rotenberg, A., **Juan, CH**, Pei, YC, Liu, HL, Chiang, YH, Wang, JY, Feng, XJ, Huang, YZ, Hsieh, TH. (Dec, 2019). Neuromodulatory Effects of Transcranial Direct Current Stimulation on Motor Excitability in Rats. *Neural Plasticity*, Volume 2019, Article ID 4252943, 1-9. (**SCI, IF: 3.591; Ranking: 95/267 (Neurosciences)**).
6. Nguyen, K., Liang, WK, Lee, V., Chang, WS, Muggleton, N. Yeh, JR, Huang, N. E. and **Juan, CH***. (Nov, 2019). Unraveling nonlinear electrophysiologic processes in the human visual system with full dimension spectral analysis. *Scientific Reports*, 9(1):16919, 1-13. (**Corresponding Author; SCI, IF: 4.011; Ranking: 15/69(Multidisciplinary Sciences)**).
7. Wang, JJ, Tseng, P, **Juan, CH**, Frisson, S, Apperly, IA. (Nov, 2019). Perspective-taking across cultures: shared biases in Taiwanese and British adults. *Royal Society Open Science*, 6 (11),

190540. (SCI, IF: 2.515; Ranking: 26/69 (Multidisciplinary Sciences)).

8. Jaiswal, S, Muggleton, N.G., **Juan, CH**, Liang, WK. (Oct, 2019). Indices of association between anxiety and mindfulness: a guide for future mindfulness studies. *Personality Neuroscience*, Vol 2: e9, 1–11.
9. Jaiswal, S, Tsai, SY, **Juan, CH**, Muggleton, N.G., Liang, WK. (Aug, 2019). Low delta and high alpha power are associated with better conflict control and working memory in high mindfulness, low anxiety individuals. *Social Cognitive and Affective Neuroscience*, 14(6):645-655. (SCI, IF: 3.5; Ranking: 89/261 (Neurosciences) & 12/78(Psychology); Citations: 1(Gs)).
10. Chuang KY, Chen, YH, Balachandran, P., Liang, WK and **Juan, CH***. (April, 2019). Revealing the electrophysiological correlates of working memory-load effects in symmetry span task with HHT method. *Frontiers in Psychology*, 10:855. (*Corresponding Author*; SSCI, IF: 2.089; Ranking: 39/135 (Psychology, Multidisciplinary)).
11. Li, CT, Chen MH, **Juan, CH**, Liu, RS, Lin, WC, Bai, YM, Su, TP. (Sep, 2018). Effects of prefrontal theta-burst stimulation on brain function in treatment-resistant depression: A randomized sham-controlled neuroimaging study. *Brain stimulation*, 11(5):1054-1062. (SCI; IF: 6.120; Ranking: 18/197 (Clinical Neurology) & 27/261 (Neurosciences); Citations: 5(Gs)).
12. Tseng, Philip*, Wang, MC, Lo, YH and **Juan, CH***. (June, 2018). Anodal and cathodal tDCS over the right frontal eye fields impacts spatial probability processing differently in pro- and anti-saccades. *Frontiers in Neuroscience*, 12:421. (*Corresponding Author*; SCI, IF: 3.877; Ranking: 77/261 (Neurosciences); Citations: 1(Gs)).
13. Tsai, S. Y., Jaiswal, S., Chang, C. F., Liang, W. K., Muggleton, N. G., **Juan, C. H***. (May, 2018). Meditation effects on the control of involuntary contingent reorienting revealed with electroencephalographic and behavioral evidence. *Frontiers in Integrative Neuroscience*, 12(17): 1-14. (*Corresponding Author*; SCI, IF: 2.810; Ranking: Behavioral Sciences (14/53) & Neurosciences (139/267) Citations: 1(Gs)).
14. Jaiswal, S., Tsai, SY, **Juan, CH**, Liang, WK, Muggleton, N.G. (May, 2018). Better cognitive performance is associated with the combination of high trait mindfulness and low trait anxiety. *Frontiers in Psychology*, 9:627. (SSCI, IF: 2.089; Ranking: 39/135(Psychology, Mulidisciplinary); Citations: 6(Gs)). Corrigendum version in Jun, 2018, *Frontiers in Psychology*, 9:1105.
15. Tseng, P., Iu, KC, **Juan, CH**. (Jan, 2018). The critical role of phase difference in theta oscillation between bilateral parietal cortices for visuospatial working memory. *Scientific Reports*, 8(1):349, 1-9. (SCI, IF: 4.122; Ranking: 12/64(Multidisciplinary Sciences); Citations: 10(Gs)).
16. Chung HK, Sjöström T, Lee HJ, Lu YT, Tsuo FY, Chen TS, Chang CF, **Juan CH**, Kuo WJ, Huang CY. (Nov, 2017). Why Do Irrelevant Alternatives Matter? An fMRI-TMS Study of Context-Dependent Preferences. *Journal of Neuroscience*, pii: 2307-16. (SCI, IF: 5.988; Ranking: 30/259 (Neurosciences); Citations: 5(Gs)).

17. Tsai, YC, Lu, HJ, Chang, CF, Liang, WK, Muggleton, N., **Juan, CH***. (Oct, 2017). Electrophysiological and behavioral evidence reveals the effects of trait anxiety on contingent attentional capture. *Cognitive, Affective, & Behavioral Neuroscience*. 7(5):973-983. (**Corresponding Author**; **SCI, IF: 3.263**; **Ranking: 12/51 (Behavioral Sciences) & 103/259 (Neurosciences)**; **Citations: 2(Gs)**).
18. Li, CT., Lu, CF., Lin, HC., Huang, YZ., **Juan, CH.**, Su, TP., Bai, YM., Chen, MH., Lin WC. (May, 2017). Cortical inhibitory and excitatory function in drug naive generalized anxiety disorder. *Brain Stimulation* 10(3):604-608. (**SCI, IF: 6.078**; **Ranking: 16/194 (Clinical Neurology) & 29/259 (Neurosciences)**; **Citations: 8(Gs)**).
19. **Juan, CH***, Tseng, P, & Hsu, TY. (April, 2017). Elucidating and modulating the neural correlates of visuospatial working memory via noninvasive brain stimulation. *Current Directions in Psychological Science* 26(2):165-173. (**Corresponding Author**; **SSCI, IF: 5.255**; **Ranking: 9/129(Psychology, Multidisciplinary)**; **Citations: 10(Gs)**).
20. Chiau, HY, Muggleton, N., **Juan, CH***. (Jan, 2017). Exploring the contributions of the supplementary eye field to subliminal inhibition using double-pulse transcranial magnetic stimulation. *Human Brain Mapping*, 38(1):339-351. (**Corresponding Author**; **SCI, IF: 4.530**; **Ranking: 2/14(Neuroimaging), 57/259(Neurosciences), 13/127(Radiology, Nuclear Medicine & Medical Imaging)**; **Citations: 3(Gs)**).
21. Hsu, TY, **Juan, CH**, Tseng, P. (Dec, 2016). Individual Differences and State-dependent Responses in Transcranial Direct Current Stimulation. *Frontiers in Human Neuroscience* 10: 643. (**SCI, IF: 3.634**; **Ranking: 14/76(Psychology) and 77/256 (Neurosciences)**; **Citations: 54(Gs)**).
22. Wu, YJ, Tseng, P, Huang, HW, Hu, JF, **Juan, CH**, Hsu, KS, Lin, CC. (Sep, 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 Human Neuroscience*, 10(479): 1-11. (**SCI, IF: 3.634**; **Ranking: 14/76(Psychology) and 77/256 (Neurosciences)**; **Citations: 13(Gs)**).
23. Tseng, P., Chang, YT, Chang, CF, Liang, WK, **Juan, CH***. (Aug, 2016). The critical role of phase difference in gamma oscillation within the temporoparietal network for binding visual working memory. *Scientific Reports* 6:32138, 1-15. (**Corresponding Author**; **SCI, IF: 5.228**; **Ranking: 7/63(Multidisciplinary Sciences)**; **Citations: 29(Gs)**).
24. Li, CT, **Juan, CH**, Su, TP, Liou, YJ, Chen, MH, Cheng, CM and Huang, YZ. (July, 2016). Transcranial Magnetic Stimulation-Derived Motor Parameters and Regional Glucose Metabolism of Motor Cortex. *Journal of Neurology & Neurophysiology* 7(4):386, 1-8. (**IF: 0.67**; **Citations: 1(Gs)**).
25. Chang, CF, Liang, WK, Lai, CL, Hung, DL and **Juan, CH***. (June, 2016). Theta oscillation reveals the temporal involvement of different attention networks in contingent reorienting. *Frontiers in Human Neuroscience*, 10(264):1-11. (**Corresponding Author**; **SCI, IF: 3.634**; **Ranking: 14/76(Psychology) and 77/256 (Neurosciences)**; **Citations: 7(Gs)**).
26. Cheng, CM, **Juan, CH**, Chen, MH, Chang, CF, Lu, HJ, Su, TP, Lee, YC, Li, CT. (April, 2016).

Different forms of prefrontal theta burst stimulation for executive function of medication-resistant depression: Evidence from a randomized sham controlled study. *Progress in Neuro-psychopharmacology & Biological Psychiatry* 66:35-40. (SCI, IF: 3.689; Ranking: 41/192(Clinical Neurology), 78/252(Neurosciences), 55/255(Pharmacology& Pharmacy) and 36/140(Psychiatry); Citations: 19(Gs)).

27. Huang, NE., Hu, K, Yang, Albert C.C., Chang, HC, Jia D, Liang, WK, Yeh, JR, Kao, CL, **Juan, CH**, Peng, CK, Meijer JH., Wang, YH, Long SR and Wu, Z. (April, 2016). On Holo-Hilbert spectral analysis: a full informational spectral representation for nonlinear and non-stationary data. *Philosophical Transactions of The Royal Society A: Mathematical, Physical and Engineering Sciences*, 13; 374(2065). (SCI, IF: 2.970; Ranking: 14/64(Multidisciplinary Sciences); Citations: 54(Gs)).
28. Lin, PI, Hsieh, CD, **Juan, CH**, Hossain MM, Erikson, CA, Lee, YH, Su, MC. (Feb, 2016). Predicting Aggressive Tendencies by Visual Attention Bias Associated with Hostile Emotions. *PLOS ONE*, 11(2): e0149487. doi: 10.1371/journal.pone.0149487, 1-8. (SCI, IF: 3.234; Ranking: 9/57(Multidisciplinary Sciences); Citations: 7(Gs)).
29. Li, CT, Hsieh, JC, Huang, HH, Chen, MH, **Juan, CH**, Tu, PC, Lee, YC, Wang, SJ, Cheng, CM and Su, TP. (Jan, 2016). Cognition-Modulated Frontal Activity in Prediction and Augmentation of Antidepressant Efficacy: a Randomized Sham-Controlled Pilot Study. *Cerebral Cortex* 26(1):202-210. (SCI, IF: 8.665; Ranking: 16/252(Neurosciences); Citations: 22(Gs)).
30. Lee, HW, Lu, MS, Chen, CY, Muggleton, N., Hsu, TY, **Juan, CH***. (Jan, 2016). Roles of the pre-SMA and rIFG in conditional stopping revealed by transcranial magnetic stimulation. *Behavioural Brain Research* 296:459-67. (Corresponding Author; SCI, IF: 3.028; Ranking: 18/51 (Behavioral Sciences), 114/252(Neurosciences); Citations: 14(Gs)).
31. Wu Q, Chang CF, Xi S, Huang IW, Liu Z, **Juan CH***, Wu Y, Fan J. (Nov, 2015). A critical role of temporoparietal junction in the integration of top-down and bottom-up attentional control. *Human Brain Mapping*, 36(11):4317-33. (Corresponding Author; SCI, IF: 5.969; Ranking: 2/14(Neuroimaging), 27/252(Neurosciences), 5/125(Radiology, Nuclear Medicine & Medical Imaging); Citations: 30(Gs)).
32. Yu, JX, Tseng, P, Hung, DL, Wu, S-W, & **Juan, CH***. (Oct, 2015). Brain stimulation improves cognitive control by modulating medial-frontal activity and preSMA-vmPFC functional connectivity. *Human Brain Mapping* 36(10):4004-15. (Corresponding Author; SCI, IF: 5.969; Ranking: 2/14(Neuroimaging), 27/252(Neurosciences), 5/125(Radiology, Nuclear Medicine & Medical Imaging); Citations: 37(Gs)).
33. Lee, HW, Lo, YH, Li, KH, Sung, WS and **Juan, CH***. (June, 2015). The relationship between the development of response inhibition and intelligence in preschool children. *Frontiers in Psychology*, Volume 6: Article 802: 1-10. (Corresponding Author; SSCI, IF: 2.560; Ranking: 23/129(Psychology, Multidisciplinary); Citations: 22(Gs)).
34. Moreau, D., Wang, CH, Tseng, P and **Juan, CH**. (May, 2015). Blending transcranial direct current stimulations and physical exercise to maximize cognitive improvement. *Frontiers in Psychology* 6(678): 1-5. (SSCI, IF: 2.56; Ranking: 23/129(Psychology, multidisciplinary); Citations: 14(Gs)).

35. Chen C-Y, Muggleton NG, **Juan C-H** (May, 2015). Attentional biases to emotion in impulsive and instrumental violent offenders: an event-related potential study. *Journal of Forensic Psychiatry and Psychology* 26(2): 202-223. (SSCI, IF: 0.592; Ranking: 37/55(Criminology & Penology), 118/133(Psychology); Citations: 4(Gs)).
36. Wang, C. H., Liang, W. K., Tseng, P., Muggleton, N., **Juan, C. H.**, & Tsai, C. L. (Apr, 2015). The relationship between aerobic fitness and neural oscillations during visuo-spatial attention in young adults. *Experimental Brain Research* 233(4):1069-78. (SCI, IF: 2.036; Ranking: 171/252(Neurosciences); Citations: 16(Gs)).
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102. Lin YC., Li, KH., Sung, WS., Ko, HW., Tzeng, OJL., Hung, DL., **Juan, C.H*.** (Mar, 2011). The relationship between development of attention and learning in children A cognitive neuroscience approach. (in Chinese). *The Bulletin of Educational Psychology* 42(3), 517-542. (**Corresponding Author**; **TSSCI**; **Citations: 37(Gs)**).
103. **Juan, CH*.** Chen, CY and Lu, DH. (Winter, 2005). The application of Transcranial Magnetic Stimulation in Cognitive Neuroscience. (in Chinese). *Research in Applied Psychology*, 28(4), 51-74 (**Corresponding Author**; **TSSCI**; **Citations: 5(Gs)**).
104. **Juan, CH*.** Lu, DH. Liu, JR and Chen, CY. (Winter, 2005). A brief review on visual selective attention. (in Chinese). *Research in Applied Psychology*, 28(4), 25-50 (**Corresponding Author**; **TSSCI**; **Citations: 15(Gs)**).

RESEARCH GRANTS

■ PI/CO-PI in research project, Ministry of Science and Technology, TAIWAN

(108-2639-H-008-001 -ASP; Aug 2019~Jul 2024; USD 1,666,666)

Title: Investigation of neural mechanisms of attention, working memory and cognitive control and theory construction.

(108-2321-B-075-004-MY2; Jun 2019~Dec 2020; USD 516,129) CO-PI

Title: Brain and mind technology in emotion: Investigation of neuropsychiatric traits with electrophysiology, brain imaging, artificial intelligence and transcranial magnetic stimulation in the domains of diagnosis, modulation and treatment.

(107-2410-H-008-040-MY3; Aug 2018~Oct, 2019; USD 71,758)

Title: Using nonlinear visual stimulation and dynamical data analysis to investigate the temporal characteristics of information processing in human visual system.

(106-2628-H-008-002-MY4; Aug 2017~Oct, 2019; USD 151,661)

Title: Neural Mechanisms and Modulations of Impulse Control: A Cognitive Neuroscience Approach.

(104-2745-B-008-002-; Oct 2015~Sep 2016; USD 40,625)

Title: Integration of electroencephalography (EEG) and Holo-Hilbert Spectral Analysis (HHSA) in the investigation of neurodegenerative cognitive decline.

(103-2410-H-008-023-MY3; Aug 2014~Jul 2017; USD 102,500)

Title: Probing the intertwined neural mechanisms of visual attention, probability and reward with neuroimaging techniques and mathematical modeling.

(102-2420-H-008-001-MY3; Jan 2013~Dec 2015; USD 100,733)

Title: An integrated approach in investigating emotion, motivation, and cognitive control using fMRI: revealing the underlying neural mechanisms and potential applications to society.

(101-2628-H-008-001-MY4; Aug 2012~Jul 2016; USD 185,600)

Title: The neural mechanisms of attentional control, reorienting, and enhancement, and their effects on visual working memory.

(100-2511-S-008-019; Aug 2011~Oct 2012; USD 26,400)

Title: The relationship between pre-schoolers' attention development and mathematical learning –Norms and mechanism of cognitive neuroscience.

(99-2410-H-008-022-MY3; Aug 2010~Jul 2013; USD 160,000)

Title: Using Transcranial Magnetic Stimulation, Mathematical Modeling and Neuroimaging techniques to investigate probability and predictability effects on visual search and attentional control.

(97-2511-S-008-005-MY3; Aug 2008~Jul 2010; USD 100,000)

Title: Investigating the training effect of a computerized attentional program in facilitating cognitive abilities of Taiwanese children- A study from Cognitive Neuroscientific perspective.

(96-2413-H-008-003-MY3; Aug 2007~Jul 2009; USD 100,000)

Title: Probing the dissociation of spatial attention and saccade preparation in the temporal domain and in the underlying neural mechanisms.

(93-2413-H-008-003; 94-2413-H-008-001; Aug 2004~Jul 2006; USD 80,000)

Title: Probing the neural mechanism of visual search with Transcranial Magnetic Stimulation.

■ PI in research project, Ministry of Education, TAIWAN

(Jun 2019~Dec 2019; USD 73,333) Taiwan-Oxford University Academic Strategic Alliance Grant

Title: Integrative research combining artificial intelligence and brain science: using deep-learning algorithms and dynamic time-frequency analysis to improve diagnoses and interventions of neuropsychiatric diseases.

(Jan 2018~Dec 2018; USD 96,666) Taiwan-Oxford University Academic Strategic Alliance Grant

Title: Using Electroencephalography/Magnetoencephalography and dynamic data analysis to improve the efficacies of diagnostic/interventional tools in psychiatric and neurological disorders.

■ Co-PI in theme project, Academia Sinica, TAIWAN

(AS-105-TP-C02, Jan 2016~Dec 2018; USD 468,750)

Title: To optimize mental capital and well-being in children and elders through brain science technologies and intervention.

(AS-94-TP-C06, Jan 2005~Dec 2007; USD 910,000)

Title: Word Recognition: Integrated Research of Behavioral, Developmental & Neurobiological approach.

■ Co-PI in the Program for Promoting Academic Excellence of Universities (Phase II), TAIWAN

(94-2752-H-010-003-PAE, 4 years; USD 760,000)

Title: Brain Processing in a Diversified Linguistic Environment: A Taiwan Perspective

ACADEMIC SERVICES

■ Editorial Board

Journal of Applied Psychology (應用心理學研究)

The Bulletin of Educational Psychology (教育心理學報)

Frontiers in Psychology (Review Editor in Consciousness Research), 2015

Frontiers in Integrative Neuroscience (Review Editor)

Frontiers in Integrative Neuroscience (Associate Editor)

■ Ad hoc reviewer of Journals:

Psychological Review, PNAS, Cerebral Cortex, Brain Stimulation, NeuroImage, Journal of Neuroscience, Human Brain Mapping, Cortex, Neuroscience Letters, Journal of Cognitive Neuroscience, European Child & Adolescent Psychiatry, PLoS ONE, European Journal of Neuroscience, Journal of Neurophysiology, Experimental Brain Research

■ Grant Reviewer:

Biotechnology and Biological Sciences Research Council (BBSRC), UK

National Science Council, Research Panel Committee Member

National Science Council, Research Proposal Referee

Academia Sinica: reviewer for recruitment of new faculty

Taipei Veterans Hospital, Medical Research & Education, Research Proposal Referee

■ International Professorship Reviewer:

1. Assistant to Associate Professor,

Psychology Department at the University of California, Davis, USA

2. Associate to Full Professor, Assistant to Associate Professor,

Psychology Department at Queens College of the City University of New York, USA

3. Reader to Full Professor,

Department of Psychology, Durham University, UK

4. Reader to Full Professor,

Department of Psychology, Goldsmiths, University of London, UK

■ Steering and Evaluation Committee for “International Scholarship for Higher Education” in the Ministry of Education, Taiwan

■ Committee member of PhD and MSc thesis examination

University of Oxford, UK
 Taiwan International Graduate Program, Academia Sinica
 Institute of Linguistics, Academia Sinica
 National Yang-Ming University, Taiwan
 National Central University, Taiwan
 National Taiwan University, Taiwan.
 National Chung-Chang University, Taiwan
 Asia University, Taiwan
 Chang Jung Christian University, Taiwan
 National Tsing Hua University, Taiwan
 Chang Gung University, Taiwan

- Committee member of Mind and Brain Center, National Chengchi University.
- Co-PI of research project “A Neuroscience Training Program for Researchers in Education or Other Humanities and Social Science Domains.”, National Chengchi University.
- Other academic and community services
 - Instructor of Brain Science Education. TECO Gifted-student camp (7 July 2004)
 - Lecturer of Vision Neuroscience. Taipei Association for optician (September 2004)
 - Co-Organizer of *Pre-conference events of the International Conference on Attentional Control*, Chia-Yi (January 2005)
 - Chair of conference sessions at *The 9th Attention and Perception Conference* Chia-Yi, Taiwan (22 January 2005)
 - Invited lecturer in the advanced course of Cognitive Neuroscience, a joint graduate course of National Taiwan University & National Cheng-Chih University (Spring Semester, 2005)
- Conferences Organizer/ Moderator:

Date	Conference / Venue	Position
2019/11/27	“Taiwan/Oxford Symposium of Cognitive Neuroscience and Nonlinear data analysis”	Chair Organizer
2019/01/26	“Symposium: The Nonlinear Analytical Methods and The Investigation of Cognitive Function with Noninvasive Brain Stimulation”	Moderator
2018/09/15	“Symposium of Working Memory and Non-invasive Brain Stimulation Applications”	Chair Organizer
2018/05/21	“Symposium for brain functions & EEG/MEG analytical methods”	Chair Organizer
2016/01/23	“Taiwan Society of Cognitive Neuroscience 2016 Annual Meeting” Mini-Symposium C: Attention and Working Memory	Chair Organizer
2012/11/04	“A mini symposium on learning, memory & decision-making”	Organizing committee
2012/05/01	“The Opening Ceremony for Taiwan Mind & Brain Imaging Center”	Organizing committee

2010/07/23~26	“2010 Asia-Pacific Conference on Vision”	Local committee member
2004/08/16~09/03 2005/08/03~07 2006/07/04~08 2007/07/09~12 2008/07/24~25 2009/07/04~05 2010/07/12~14 2011/07/05~07 2012/07/03~06 2013/07/03~05 2014/09/09~13 2015/08/24~28 2016/08/24~28 2017/08/25~29	“The Summer School in Cognitive Neuroscience in Taiwan” (an annual event)	Organizing committee member
2005/12/12~14	“The International Conference of Cognitive Neuroscience, Taiwan and The Academia Sinica MEG Laboratory Opening Ceremony”	Executive committee member

■ Invited talks at International Conferences/Symposiums/ Seminars

Date	Conference/Venue	Talk Title
2019/11/27	Academic Strategic Alliance: Taiwan and Oxford University – Taiwan/Oxford Symposium of Cognitive Neuroscience and Nonlinear data analysis ／Experimental Psychology department, Univ. of Oxford, UK	Dynamic cross frequency coupling of neuronal oscillations revealed with the Holo-Hilbert Spectral Analysis
2019/05/19	中科院 SELF+Guangzhou 讲坛暨两岸及港澳地区科技创新论坛 ／广东科学中心, (廣州, 中國)	大腦的發展與潛能
2018/12/13	Academic forum of Academic Strategic Alliance: Taiwan and Oxford University ／Doctorow Hall, St Edmund Hall, Queen's Lane, Oxford, OX1 4AR (Oxford, UK)	“The applications of Holo-Hilbert spectrum analysis in brain sciences”
2018/09/05~09/09	The 12th International Conference on Complex Medical Engineering (2018 ICME) ／Matsue Terrsa, Shimane, Matsue City, Japan	“The effect of the theta burst TMS revealed in brain oscillations of Treatment-Resistant Depression patients”
2018/07/19~07/22	Multi-Modal Neuroimaging Workshop Beijing, China	The developments and applications of non-invasive brain stimulation in brain science
2018/05/31~06/02	South China Normal University	“The application of non-invasive stimulation in cognitive neuroscience”
2017/10/12~13	The Chinese Neuroscience Society Meeting , Tianjin (Tianjin, China)	“The applications of TMS in visual attention and cognitive control”
2017/05/21~24	International Workshop on Brain, Language and Cognition ／Kuang Yaming Honors School, Nanjing University (Nanjing, China)	“Elucidating and Modulating the Neural Correlates of Visual Working Memory via Noninvasive Brain Stimulation (TMS, tDCS and tACS) and EEG”
2017/01	National Institute on Drug Abuse (NIDA), Intramural Research Program, Baltimore, USA	“Using Non-Invasive Brain stimulation techniques to investigate inhibitory control and visual working memory”

2016/12/02~04	International Conference of Cognitive Control / South China Normal University School of Psychology (Guangzhou, China)	“Probing the neural correlates of inhibitory control with noninvasive transcranial magnetic stimulation (TMS), transcranial direct current stimulation (tDCS), electroencephalography (EEG) and fMRI”
2016/08/04~06	2016 ICME International Conference, Session Title: The role of non-invasive brain stimulation in cognitive neuroscience / Department of Neurology, Dokkyo Medical University (Tochigi, Japan)	“Revealing the neural mechanisms of visual working memory with transcranial direct/alternating current stimulation and adaptive electroencephalographic spectral analysis”
2016/04/06	Oxford Centre for Human Brain Activity, University of Oxford (Oxford, UK)	“Deciphering the nonlinear processes in visual working memory with Holo-Hilbert Spectrum Analysis”
2015/09/09	Decision and Action Laboratory, University of Oxford (Oxford, UK)	“Unleashing potential: tDCS/tACS over the right posterior parietal cortex improves visual working memory in low-performing individuals”
2015/09/07	Oxford Centre for Human Brain Activity, University of Oxford (Oxford, UK)	“The neural mechanisms of inhibitory control revealed with transcranial direct current stimulation, EEG and fMRI ”
2015/06/15~18	8th France-Taiwan Frontiers of Science (Marseilles, France)	“Stay in control of your thought and action: Cognitive Neuroscience, Human Wellbeing and its urgency”
2011/08	Decision and Action Laboratory, Department of Experimental Psychology, University of Oxford, UK	“Probing the influence of probability in saccadic behaviors and the role of PreSMA in inhibitory control”
2011/08	Brain and Cognition Laboratory, Department of Experimental Psychology, University of Oxford, UK	“Increasing visual working memory capacity with transcranial direct current stimulation and its possible underlying electrophysiological mechanisms”
2011/05/06~08	East China Normal University (Shanghai, China)	“The Neuro-mechanism of attention control in pre-schooled children’s attention development”
2011/01/17~20	South China Normal University (Guangzhou, China)	“Using TMS and tDCS to probe visual attention and inhibitory control in human”
2010/08/17~20	The 7th International Conference on Cognitive Science, Symposium: Multimodal brain mapping methods overviews / East China Normal University (Shanghai, China)	“Investigating human inhibitory control with transcranial magnetic stimulation (TMS) and transcranial direct current stimulation (tDCS)”
2010/08/17~20	The 7th International Conference on Cognitive Science, Symposium: Cognitive Neuroscience—from Bench to Clinic / East China Normal University (Shanghai, China)	“Neurodisruptive studies of visual cognition”
2009/11/04	Department of Psychology, University of Southern California, USA	“Probing functional roles of the frontal eye fields in visual selection and inhibitory control with Transcranial Magnetic Stimulation”
2007	Department of Cognitive Sciences, University of California, Irvine, USA	“Probing temporal and causal involvements of frontal eye fields in visual selection and saccade preparation with microstimulation

		and TMS”
2005	European Brain and Behaviour Society, Dublin, Ireland	“On the distinction between visual selection and saccade preparation in the Frontal Eye Fields of monkeys”
2004	The 3 rd International Symposium on Cognitive Neuroscience, Hong Kong.	“Visual selection without eye movements in human visual cortices: two Transcranial Magnetic Stimulation studies”

■ Invited talks at Domestic Conferences and Seminars

No	date	Conference / Venue	Talk Title
132	2020/08/27	2020 The Summer School in Cognitive Neuroscience in Taiwan	注意力、工作記憶與認知控制
131	2020/07/31	2020 年深層睡眠與失智之學術研討會 Venue: Conference room 5, Landseed International Hospital	Sleep Disorders and Alzheimer’s Disease: Perspectives from EEG and Neural Entrainments.
130	2020/07/25	2020 Annual Conference of Taiwan Association of Clinical Psychology Venue: Hall A, KMU International Convention Center	認知神經科學在精神與神經疾病的應用：憂鬱症診斷與治療
129	2020/07/03	深度醫療-失智症次分類討論會 Venue: room 12EN, Frank C. Chen Memorial Building, Kaohsiung Medical University	Holo-Hilbert Spectral Analysis of EEG in the Prediction of Dementia in MCI Patients, Early Detection and Classification of Dementia.
128	2020/05/22	Brain Research Center, National Yang-Ming University Venue: room 403 of Library, Information and Research Building, National Yang-Ming University	Deciphering Nonlinear brain oscillations with Holo-Hilbert Spectral Analysis: examples from steady-state visual evoked potentials and rTMS treatment effects in depression.
127	2020/03/31	理學院學士班跨領域演講	大腦使用手冊與腦科學研究的挑戰
126	2019/12/03	2019 NCU-Landseed Chronic Disease Symposium Venue: 103, Research Center Building (R3), NCU	Non-invasive brain stimulation and sleep disorders.
125	2019/11/15	107 年度科學教育暨多元族群科學教育學門專題研究計畫成果討論會	心智腦科學與科學教育
124	2019/09/06	Academic forum of Academic Strategic Alliance: Taiwan and Oxford University Venue: College of Medicine, National Cheng Kung University	A full spectral representation of neuronal oscillations revealed with Holo-Hilbert Spectral Analysis
123	2019/04/27	2019 Joint Spring Congress Non-invasive brain stimulation workshop. Venue: College of Medicine, National Cheng Kung University	The applications and safety guidelines of transcranial Direct/Alternating Current Stimulation (tDCS/tACS) in clinical neuroscience
122	2019/03/29	Department & Graduate Institute of Pharmacology, National Defense Medical Center	The application of noninvasive brain stimulation and EEG techniques in neurological and neuropsychiatric disorders
121	2018/09/13	Academic forum of Academic Strategic Alliance: Taiwan and Oxford University Venue: Shangri-La's Far Eastern Plaza Hotel Tainan B1 Yanping Hall	Nonlinear and dynamic analysis in brain sciences
120	2018/05/29	National Central University 103th Anniversary Celebration “Distinguished Lecturers' Seminar Series”	The collaboration and competition between human intelligence and artificial intelligence

		Venue: National Central University	
119	2018/05/27	2018 Annual Conference of Taiwan Society of Clinical Neurophysiology Venue: NTUH International Convention Center	The application of noninvasive brain stimulation techniques in the investigation of cerebral cognitive functions
118	2017/11/22	Department of Psychology, National Taiwan University	Exploring the Neural Correlates of Visual Working Memory via Electroencephalography, Dynamical Analyses and Noninvasive Brain Stimulation
117	2017/11/04	Forum for Artificial Intelligence and Applied Psychology, Ministry of Science and Technology, Taiwan Venue: National Taiwan University	Crosstalk between AI, Cognitive, Applied and Clinical Neuroscience
116	2017/10/02	Workshop for Network Learning and Cognitive Neuroscience Venue: Department of Electrical Engineering, National Central University	The Applications of Cognitive Neuroscience in Network Learning and Education
115	2017/09/23	2017 Joint Taiwanese Neurological and Psychiatric Societies Annual Congress Venue: Evergreen International Convention Center, Chang Yung-Fa Foundation	The applications and safety guidelines of transcranial Direct Current Stimulation (tDCS) in clinical neuroscience
114	2016/11/21	National Taiwan University Hospital	The applications of non-invasive brain stimulation in the treatment of neuropsychiatric disorders.
113	2016/08/19	National Cheng Kung University	Using EEG, nonlinear analytical methods and cognitive tasks to investigate the development of brain functions in children: New directions and perspectives
112	2016/05/27	Research Lecture of School of Life Sciences Venue: National Yang-Ming University	The applications of non-invasive brain stimulation in cognitive and clinical neuroscience
111	2016/05/24	National Central University 101th Anniversary Celebration “Distinguished Lecturers' Seminar Series” Venue: National Central University	A user’s guide to the brain: attention, learning and memory.
110	2015/11/15	2015 Forum of MOST Research Projects on Brain Imaging for Mind Science Venue: National Taiwan University	The intertwined relationship between inhibitory control and emotional arousal probed by psychophysics, transcranial direct current stimulation and fMRI
110	2015/11/15	2015 Forum of MOST Research Projects on Brain Imaging for Mind Science Venue: National Taiwan University	The intertwined relationship between inhibitory control and emotional arousal probed by psychophysics, transcranial direct current stimulation and fMRI
110	2015/11/15	2015 Forum of MOST Research Projects on Brain Imaging for Mind Science Venue: National Taiwan University	The intertwined relationship between inhibitory control and emotional arousal probed by psychophysics, transcranial direct current stimulation and fMRI
110	2015/11/15	2015 Forum of MOST Research Projects on Brain Imaging for Mind Science Venue: National Taiwan University	The intertwined relationship between inhibitory control and emotional arousal probed by psychophysics, transcranial direct current stimulation and fMRI
110	2015/11/15	2015 Forum of MOST Research Projects on Brain Imaging for Mind Science Venue: National Taiwan University	The intertwined relationship between inhibitory control and emotional arousal probed by psychophysics, transcranial direct current stimulation and fMRI
109	2015/11/07	Ton-Yen General Hospital, Hsinchu county, Taiwan.	The development of attention and cognitive control in pre-schoolers and potential interventional methods.

108	2015/08/27	2015 The Summer School in Cognitive Neuroscience in Taiwan, National Central University	Introduction to TMS/ tDCS/tACS and its Application in Cognitive Neuroscience
107	2015/08/27	2015 The Summer School in Cognitive Neuroscience in Taiwan, National Central University	Introduction to Attention, Working Memory and Cognitive Control
106	2015/05/28	Psychiatry Department, Chung-Ho Memorial Hospital, Kaoshiung Medical University	The possible application of cognitive neuroscience in psychiatry: starting from attention development and major depressive disorder treatment.
105	2015/05/02	2015 Non-invasive brain stimulation workshop Venue: GIS TAIPEI TECH Convention Center	The application and safeness of tDCS.
104	2015/03/28 - 2015/03/29	The Taiwan Frontiers of Science Symposium and the 8 th annual France-Taiwan Frontiers of Science Symposium (Ministry of Science and Technology) Venue: MAISON DE CHINE MI-AOLI	Take control of your thoughts and actions: cognitive neuroscience and its applications.
103	2015/03/23	Taipei City Hospital, Songde Branch. Department of Child and Adolescence Psychiatry	The applications and possibilities of cognitive neuroscience in attention and psychiatric science.
102	2015/01/15	National Defense Medical Center. Department and Graduate Institute of Pharmacology	The possible applications of cognitive neuroscience in neurology and psychiatry.
101	2014/12/07	【Non-invasive Brain Stimulation training course】TAIWAN SOCIETY OF CLINICAL NEUROPHYSIOLOGY	The applications and progress of rTMS and tDCS in the research of neuroscience.
100	2014/11/27	National Taiwan Ocean University Department of Computer Science and Engineering	The applications of cognitive neuroscience in brain-computer interface and signal analysis.
99	2014/11/09	The 53 rd Annual Meeting and Conference of Taiwanese Psychology Association	The neural mechanisms of cognitive control and working memory and their possible applications in clinical trial and education.
98	2014/10/05	【The Bridge to Link Attention and Saccadic Control in Reading course study】Taiwan Applied Rehabilitation Association	The neural mechanisms and the interplays of eye movements and visual attention/ The link between visual attention and attention controlled behaviors/ The link between visual attention and reading.
97	2014/09/25	MacKay Memorial Hospital Department of Psychiatry	The applications and possibilities of cognitive neuroscience in psychiatric science.
96	2014/09/19	【New Taipei City elementary school professional staff training course on ADHD】Department of Health, New Taipei City Government	The neural mechanisms of attention and executive function.
95	2014/05/14	Kaohsiung Medical University	The neural mechanisms of attention and impulse control and their applications in clinical and educational learning.
94	2014/05/08	Department of Psychology, National Chengchi University	The neural mechanisms of executive function and its clinical applications in educational learning.
93	2014/4/21	Taipei Veterans General Hospital	The applications of transcranial electrical stimulation in visual working memory and cognitive control.
92	2014/4/12	【Xindian District Tzu Chi Attention Workshop】Taipei Tzu Chi General Hospital	The neural mechanisms of attention and executive function.
91	2014/4/7	Beautiful Life Television (BLTV)	Cognitive neuroscience studies on attention and executive function.

90	2013/10/23	Dharma Drum Buddhist College	A review and prospects on integrated studies of humanities and brain science.
89	2013/3/28	【Life Science Seminar】Yuan Ze University	The brain, learning, and future technology development.
88	2013/3/17	2013 Teacher's training program for teaching methods that coincide with brain function (advance) (Session: Kaisyuan Junior High School, Yilan)	Attention, Brain, and Learning.
87	2012/12/14	National Taipei University of Technology	The brain that enjoys learning.
86	2012/12/9	2013 Teacher's training program for teaching methods that coincide with brain function (advance) (Session : Leli Elementary School, New Taipei City)	Attention, Brain and Learning: Impulse control function and educational learning.
85	2012/12/4	「Sport Transforms the Brain」Teacher's training seminars (National Taiwan Sport University)	The brain's potentials.
84	2012/12/1	2013 Teacher's training program for teaching methods that coincide with brain function (advance) (Session : Ruisui Junior High School, Hualien)	Attention, Brain and Learning: Impulse control function and educational learning.
83	2012/11/25	2013 Teacher's training program for teaching methods that coincide with brain function (advance) (Session : Situn Elementary School, Taichung)	Attention, Brain and Learning: Impulse control function and educational learning.
82	2012/11/18	2013 Teacher's training program for teaching methods that coincide with brain function (advance) (Session : National Cheng Kung University Cheng Kung Campus)	Attention, Brain and Learning: Impulse control function and educational learning.
81	2012/10/3	Shu-Te University	The mechanism of cognitive neuroscience in criminal and sexual studies.
80	2012/5/24	National Taiwan Sport University	The applications of sports cognitive neuroscience in motor skill studies.
79	2012/5/1	【Opening ceremony for the Research Center for Mind, Brain, and Learning】National Chengchi University	Unleashing potential: tDCS over the right posterior parietal cortex improves visual working memory in low-performing individuals
78	2012/3/15	National Taiwan Normal University	Attentional development and learning in preschoolers.
77	2012/3/1	【Life Science Seminar】Yuan Ze University	Attention control, learning, and the brain.
76	2012/2/16	Probation Officer Training Course, Ministry of Justice	Correlation between neuroscience and crime.
75	2012/2/6	【Cognitive Neuroscience Workshop】National Chengchi University	Attention and cognitive control in human.
74	2012/2/18	2013 Teacher's training program for teaching methods that coincide with brain function (Session : National Central University)	Attention, Brain, and Learning: The brain's potentials.
73	2012/2/4	2013 Teacher's training program for teaching methods that coincide with	Attention, Brain, and Learning: The brain's potentials.

		brain function (Session: Bausun Elementary School, Taitung)	
72	2012/2/3	2013 Teacher's training program for teaching methods that coincide with brain function (Session : Kaohsiung Museum of Fine Arts)	Attention, Brain, and Learning.
71	2012/2/2	2013 Teacher's training program for teaching methods that coincide with brain function (Session: Tung Shin Elementary School, Ping Tung)	Attention, Brain, and Learning: The brain's potentials.
70	2012/2/1	2013 Teacher's training program for teaching methods that coincide with brain function (Session : Fu Shin Elementary School, Miaoli)	Attention, Brain, and Learning.
69	2012/1/17	【The Changes of Cognitive Psychology in Taiwan Conference】 National Taiwan University	The investigation of neuroscience and its impact and prospect on cognitive psychology from the research of visual attention.
68	2011/12/1	National University of Tainan	The Possible Application of Cognitive neuroscience in Network learning
67	2011/10/19	Ming Chuan University, Taoyuan Campus	Attentional development and learning in preschoolers.
66	2011/10/16	【the 50 th annual conference an symposium of Taiwanese Psychological Association】 (Asia University)	The mechanisms and applications of visual attention in cognitive neuroscience.
65	2011/8/30	【Cross-Strait cognitive and social neuroscience conference】 National Chengchi University	“Effects of emotional stimulus on saccade programming and inhibitory control”
64	2011/10/7	National Taipei University of Technology	Beautiful New Vision: When the mind crosses with the brain
63	2011/1	South China Normal University	Using rTMS and tDCS in the researches of human visual attention and impulse control functions.
62	2011/1	Department of Psychology lectures, Kaohsiung Medical University	The applications of rTMS and tDCS in cognitive neuroscience.
61	2010/11	Changhua Arts Senior High School	Attention and executive operating functions.
60	2010/11	Changhua Arts Senior High School	The brain's potentials.
59	2010/11	Department of Education, Nantou County	Attention and executive operating functions.
58	2010/11	Department of Education, Nantou County	The brain's potentials.
57	2010/10	General Education Center, National Taipei University of Technology	The brain that enjoys learning.
56	2010/10	National Central University, Graduate Institute of Learning and Instruction	The characteristic and development of visual attention and inhibition in preschoolers.
55	2010/9	Yuan Ze University	Beautiful New Vision: When the mind crosses with the brain
54	201/9	The 99 th annual Justice Trial Psychology Conference	『 field trip 「 Behavioral 、 ERPs and Transcranial Magnetic Stimulation 」 Laboratory. 』
53	2010/7	Department of Education, city of Taichung	Attention and executive operating functions.
52	2010/7	Department of Education, city of Taichung	The brain's potentials.
51	2010/7	Changhua Arts Senior High School	The link between art and the visual attention nervous system in human.

50	2010/7	【Human Behavior and Brain Neurology Research】Conference (Chang Gung University of Science and Technology)	The research of cognitive neuroscience on visual attention and executive functions.
49	2010/7	Summer Institute in Cognitive Neuroscience, Taiwan (National Chengchi University)	TMS basis & application
48	2010/7	National Taiwan Normal University	The development of the brain.
47	2010/7	National Taiwan Normal University	Attention and Brain.
46	2010/7	Department of Education, Hsinchu County	Attention, Brain, and Learning.
45	2010/6	National Central University, Department of Physics	Using rTMS and tDCS to investigate the human impulse control functions.
44	2010/5	Academic workshop, Chung Yuan Christian University, Department of Special Education.	Visual attention, executive operating, and the brain function.
43	2010/5	Taipei County Committee Responsible for Identification and Placement of Special Education Students	Attention, Brain, and Learning.
42	2010/5	National Taiwan University, Institute of Biomedical Engineering	The Basis and Application of Transcranial Magnetic Stimulation in Cognitive Neuroscience
41	2010/5	Ministry of Justice—Training Institute for Correctional Officers	The link between abusive violence and crime from the cognitive neuroscience point of view.
40	2010/5	National Taichung University of Education, Department of Digital Content Technology.	Visual attention, executive operating, and the brain function.
39	2010/4	National Central University, Graduate Institute of Biomedical Engineering	The applications of Transcranial Magnetic Stimulation & Transcranial direct current stimulation in Cognitive Neuroscience.
38	2010/4	National Changhua University of Education, Department of Special Education.	Visual attention, executive operating, and the brain function.
37	2010/3	Department of Education, Tainan county	The potentials of brain and learning.
36	2010/3	Department of Education Tainan county	Attention, Brain, and Learning.
35	2009/8	Department of Education, Yunlin County	The neural mechanisms of science teaching.
34	2009/8	Department of Education, Yunlin County	The neural mechanisms of emotion and learning.
33	2009/5	Department of Education, Penghu County	The neural mechanisms of science teaching.
32	2009/5	Department of Education, Penghu County	The neural mechanisms of emotion and learning.
31	2009/4	Department of Education, Taitung, County	The neural mechanisms of science teaching.
30	2009/4	China Medical University, Graduate Institute of Neural and Cognitive Science.	“Probing the Neural Mechanisms of Visual Selection and Inhibitory Control with TMS”
29	2009/3	National Central University 【Song Tao Lectures】	Beautiful New Vision: When the mind crosses with the brain.
28	2009/1	National Central University, Department of Mathematics.	The development and applications of cognitive neuroscience.
27	2008/7	National Cheng Kung University Hospita, Department of Psychiatry	The neural mechanisms of the inhibitory control probed with Transcranial Magnetic Stimulation and the countermanding paradigm.
26	2008/7	National Taiwan Normal University,	Brain and Education” workshop: Visual attention and executive functions in the brain.

		Department of Educational Psychology and Counseling	
25	2008/7	National Taiwan Normal University, Department of Educational Psychology and Counseling	Brain and Education” workshop: Neuroplasticity and Brain Development.
24	2008/3	Taipei Veterans General Hospital	The applications of rTMS in cognitive neuroscience.
23	2008/2	Sing Ming Elementary School, City of Taoyuan Jhongli District	A brief talk on attention development, reading, and learning in children from the cognitive neuroscience point of view.
22	2008/1	National Taiwan Normal University, Department of Educational Psychology and Counseling	“Brain and Education” workshop.
21	2007/7	Summer Institute in Cognitive Neuroscience, Taiwan (National Central University)	Vision, Attention & Action.
20	2007/6	National Chiao Tung University (Institute of Display)	Cognitive neuroscience in visual perception.
19	2007/1	National Taiwan Normal University, Department of Life Sciences	Moving your attention without eye movements: a short review on cognitive neuroscience of visual attention.
18	2006/11	National Tsing Hua University, College of Life Science	ATTENTION! Move your attention without eye movements: a short review on cognitive neuroscience of visual attention.
17	2006/11	National Chung Cheng University, Department of Psychology	On the distinction between visual selection and saccade preparation in the frontal eye fields.
16	2006/10	Physical Therapist Training Course, National Taiwan University	The cognitive neuroscience of attention development.
15	2006/9	Eye movement workshop, National Taiwan Normal University	The neural mechanisms and the interplays of eye movements and visual attention.
14	2006/7	Summer Institute in Cognitive Neuroscience, Taiwan (National Yang-Ming University)	A brief review on visual attention studies.
13	2006/7	Summer Institute in Cognitive Neuroscience, Taiwan (National Yang-Ming University)	The application of Transcranial Magnetic Stimulation in Cognitive Neuroscience.
12	2006/5	National Chung Cheng University	The implication of Transcranial Magnetic Stimulation in Cognitive Neuroscience: insights from visual cognition studies.
11	2005/8	Summer Institute in Cognitive Neuroscience, Taiwan (National Yang-Ming University)	The application of Transcranial Magnetic Stimulation in Cognitive Neuroscience.
10	2005/6	Brain and Behavior conference (National Central University)	Visual attention in the visual cortices.
9	2005/6	A Mini-Workshop on Vision, Spatial Language, and Action	Exploring the roles of the primary visual cortex and the frontal eye fields in visual selection with transcranial magnetic stimulation and microstimulation.
8	2004/10	National Taiwan University, Department of Psychology	Probing the roles of the primary visual cortex and the frontal eye fields in visual selection with transcranial magnetic stimulation and microstimulation.
7	2004/9	National Tsing Hua University, College of Nuclear Science	Tickling the brain: the application of transcranial magnetic stimulation (TMS) in Cognitive Neuroscience.
6	2004/9	The 43 rd annual meeting for Taiwanese Psychological Association (National Chengchi University)	Visual selection without eye movements: evidence from brain stimulation studies.
5	2004/8	Summer Institute in Cognitive Neuroscience, Taiwan (National Central University)	The History and the development of Transcranial Magnetic Stimulation.

4	2004/8	Summer Institute in Cognitive Neuroscience, Taiwan (National Central University)	The application of Transcranial Magnetic Stimulation in Cognitive Neuroscience.
3	2004/4	The Annual Meeting for Taiwanese Physiological Society	Exploring the involvement of visual cortex in visual search with Transcranial Magnetic Stimulation.
2	2004/4	Department of Psychology, National Chengchi University	Creating virtual patients: the applications of TMS in Cognitive Neuroscience.
1	2002	National Yang-Ming University, Cognitive Neuropsychology Laboratory.	Tickling the brain: exploring the role of the primary visual cortex and the frontal eye fields in visual search with transcranial magnetic stimulation (TMS).