

SHEN-HSING ANNABEL CHEN, Ph.D.

Curriculum Vita

Corresponding Address:

Division of Psychology
School of Humanities and Social Sciences
Nanyang Technological University
14 Nanyang Drive, HSS-04-19
Singapore 637332

Office Phone: +65-6316-8836
Office Fax: +65-6795-5797
Email:annabelchen@ntu.edu.sg
Website://clinicalbrain.org

CURRENT POSITION

Sep 2017 to present

Professor

Division of Psychology, School of Humanities and Social Sciences
Nanyang Technological University, Singapore

June 2017 to present

Acting Director

Centre on Research and Development in Learning (CRADLE)
Nanyang Technological University, Singapore

Apr 2015 to present

Associate Professor (Joint Appointment by courtesy)

Lee Kong Chian School of Medicine
Nanyang Technological University

PROFESSIONAL EXPERIENCE

July 2008 to Aug 2017

Associate Professor

Division of Psychology, School of Humanities and Social Sciences
Nanyang Technological University, Singapore

Jan 2015 to July 2017

Deputy Director

Centre on Research and Development in Learning (CRADLE)
Nanyang Technological University, Singapore

May 2013 to Dec 2014

Associate Chair (Research)

School of Humanities and Social Sciences
Nanyang Technological University, Singapore

May 2010 to Apr 2012

Visiting Clinical Neuropsychologist (Honorary Appointment)

Psychology Department, Institute of Mental Health, Singapore

Aug 2004 to July 2008

Assistant Professor

Clinical Psychology Program, Department of Psychology
National Taiwan University, Taipei, Taiwan

Sep 2001 to Jun 2004

Post Doctoral Research Fellow

Lucas Magnetic Resonance Imaging Center, Department of Radiology
Stanford University School of Medicine, Stanford, California

Oct 1999 to Aug 2001

Resident in Clinical Neuropsychology (APPCN Accredited)

Department of Neurology,
Medical College of Wisconsin, Milwaukee, Wisconsin

Jul 1998 to Jun 1999

Clinical Psychology Internship (APA Accredited)

Clinical Neuropsychology Specialty Track (in accord with
INS-Division 40 Guidelines)

Department of Behavioral Medicine and Psychiatry
West Virginia University School of Medicine,
Morgantown, West Virginia

Licensed Psychologist, California, USA, License number: PSY 19768

Singapore Register of Psychologists (registration no: 009050162)

EDUCATION

- 1999 **Doctor of Philosophy** (APA Accredited)
Clinical Rehabilitation Psychology with emphasis in Clinical Neuropsychology
Department of Psychology
Purdue University at Indianapolis, Indiana
- 1995 **Masters of Science**
Clinical Rehabilitation Psychology
Department of Psychology
Purdue University at Indianapolis, Indiana
- 1992 **Bachelor of Social Sciences**
Honours in Psychology (Second Upper Class)
Department of Social Work & Psychology,
National University of Singapore, Singapore
- 1991 **Bachelors of Arts**
Majors: Economics and Psychology; Minor: Statistics
Faculty of Arts and Social Sciences, National University of Singapore, Singapore

Competitive GRANTS FUNDED

- 2017-2021 NRF Science of Learning Initiative Grant (SG\$7.1M) (co-PI)
How Language Mixes Contribute to Effective Bilingualism and Biliteracy in Singapore
- 2017-2020 Ministry of Defense, Future Systems Technology Directorate (FSTD)
Temasek Laboratories @ NTU, Research and Development Grant (SG\$965K) (PI)
Understanding Deception through Neuroimaging
- 2017-2018 ARISE Inaugural Grant Call 2017 (SG\$50K) (PI)
Active Aging Lifestyle with Healthy Cognition: A pilot study for an ExCITE Solution
- 2016-2018 CRADLE-JHU Collaborative Grant (SG\$713,030) (co-lead PI)
Effective Biliteracy: The impact of script sets on bilingual reading networks for typical and atypical readers
- 2016-2019 Ministry of Education, AcRF Tier 2 (SG \$681,485) MOE2015-T2-1-120 (co-PI)
New sounds to better brain health: The effects of language learning on aging
- 2015-2016 NRF Science of Learning Planning Grant (SG\$96K) (PI)
Translating Educational Neuroscience to Meet Diverse Needs of Children in Schools: Feasibility and Infrastructure (NRF2015-SOL001-011)
- 2015-2016 CRADLE@NTU Start-Up Grant (\$23,540) (PI) *Training Brain Literacy in Teachers*
- 2014-2017 Ministry of Education, AcRF Tier 1 (SG\$89.9K) MOE2014-T1-001-200 (PI)
Investigating the Neural Substrates of Verbal Working Memory in Children with Dyslexia: A Multi-modal Neuroimaging Study
- 2014-2016 Japan Society for the Promotion of Science JSPS-NUS/NTU Joint Research Project (SG\$76K) (PI) (2 out of 16 NTU-wide applications awarded) *Understanding age-related changes in neuro-network connectivity using functional neuroimaging.*
- 2013-2016 Ministry of Education, AcRF Tier 1 (SG\$99.9K) MOE2013-T1-001-051 (PI)
Clarifying the Neural Basis of Obsessive-Compulsive Disorder —A Combined Functional, Structural and Diffusion MRI study
- 2013-2015 Ministry of Education, AcRF Tier 1 (SG\$50K) (Co-PI) *An IT Solution for Studying and Managing Wandering Behavior in People with Dementia MOE2013-T1-002-107*
- 2011-2014 Ministry of Education, AcRF Tier 2 (SG\$727K) MOE2011-T2-1-031(PI)
Cerebellar contributions to visual working memory
- 2011-2013 Central Strategic Initiative for Inter-disciplinary Competitive Fund, NTU (SG\$250K)
Towards a New Generation of Wearable Medical Devices: Cognition, Ergonomics and Design (Co-PI)
- 2011-2012 Nanyang Institute of Technology in Health and Medicine (NITHM) awarded to College of Engineering, NTU (SG\$100K) (Co-PI)
Multi-Modal Medical Imaging and Informatics for PACS & RIS

- 2009 to 2012 Ministry of Education, AcRF Tier 1 (SG\$70K) (PI)
Detecting Functional Changes of Clinical Significance in Aging: A Transmodality Neuroimaging Study
- 2009 to 2012 National Science Council, Taiwan, 96-2628-H-002-073-MY2 (NT\$2.667M) (Co-PI)
Long-Term Effects of Task-Oriented Lower Extremity Strengthening Training on Functional Connectivity of the Brain, Motor Functions, Physical Activity Level, and Quality of Life in Patients with Subacute Stroke
- 2009 to 2010 National Science Council, Taiwan, NSC 98-3112-B-002 -041 (NT\$3.1M) (Co-PI)
Imaging Phenotypes of 2 Promising Candidate Vulnerability Genes of Schizophrenia: a Diffusion and functional MRI Study (1/2)
- 2009 to 2010 Interchange Association, Japan (JPY\$1.2M) (Co-PI) *Development of the brain function examination for the diagnosis of early dementia – integral comparison research between Japan and Taiwan aiming the establishment of the standardized brain function diagnosis using fMRI*
- 2008 to 2011 National Taiwan University, Excellent Research Projects (NT\$5,558,304 applied)
Functional and Structural Dysconnectivity of Working Memory in Patients with Schizophrenia: A combined fMRI and diffusion spectrum imaging study (Co-PI)
- 2007 to 2010 National Science Council, Taiwan, 96-2628-B-002-034-MY3 (NT\$6,694,000) (Co-PI)
The Effect and Cost-Utility of Task-oriented Approach on Upper-extremity Motor Recovery in Patients with Stroke
- 2007 to 2009 National Science Council, Taiwan, 96-2628-H-002-073-MY2 (NT\$2,763,000) (PI)
Developing a standard clinical fMRI language protocol for Chinese and Japanese
- 2006 to 2008 National Taiwan University Program for Frontier and Innovative Research (NT\$2,470,000)
Cognition in the Cerebellum: Working Memory (PI) NTU-PFIR-95R0801-FS-01
- 2005 to 2008 National Science Council, Taiwan, NSC 94-2413-H-002 -031; -007; -001 (NT\$3,608,000) *Development and implementation of clinical functional magnetic resonance imaging (PI)*
- 2005 National Taiwan University Inter-College Grant for Expensive Equipment
Transcranial Magnetic Stimulation (TMS) (Clinical and Basic Research Applications) (NT\$1,400,000) (PI)
- 2003 Stanford University Office of Technology Licensing internal grant award (USD\$25,000) *Cognitive effects after concussion injury in contact sports: A fMRI and DTI study (Contributed to conceptualization and write-up of grant). PI: John Desmond, Ph.D.*
- 2003 Ethical Dimensions of Neuroscience Research, Stanford BioX Interdisciplinary Initiatives Program (USD\$7,500). *Ethical Issues in the Clinical Application of Functional Neuroimaging Data (Served as Collaborator).*

AWARDS & SCHOLARSHIPS

- 2015 Nanyang Award for Research Excellence (Nanyang Technological University)
- 2007 Outstanding Young Investigator Grant-in-aid Award (National Science Council, Taiwan)
- 2000 Outstanding Research Doctor of Philosophy Award (School of Science, IUPUI)
- 1999 Magna Cum Laude Citation (37th Annual Scientific Meeting of the American Society of Neuroradiology)
- 1999 Who's Who Among Students in American Universities and Colleges
- 1998 Outstanding Clinical Rehabilitation Psychology Doctoral Student Award (Psychology Department, IUPUI)
- 1997 American Psychological Association Dissertation Research Award (APA Science Directorate)
- 1997 Henry Hécaen Neuropsychology Scholarship (Arthur Benton Scholarship Fund, APA Foundation, & Div. 40)
- 1995 Research Investment Fund (RIF) Fellowship Award (Purdue School of Science at Indianapolis)
- 1995 American Psychological Association Student Travel Award (APA Science Directorate)
- 1995 Psi Chi: The National Honor Society in Psychology. Chapter: Indiana University Purdue

University Indianapolis

- 1994 Outstanding Clinical Rehabilitation Psychology Masters Student Award (Psychology Department, IUPUI)
- 1993 Graduate School Grant-in-aid Research Award (IUPUI)

RESEARCH INTERESTS

Clinical Neuropsychology. Higher cognitive functions in the cerebellum with applications to neuropsychiatric disorders. Aging Neuroscience. Applications of Neuropsychology and Neuroimaging to Learning and Education. Use of Magnetic Resonance Imaging (fMRI, diffusionMRI, structuralMRI), Electroencephalography (EEG), Transcranial Magnetic Stimulation (TMS) and Transcranial Electrical Stimulation (tES) as investigative tools.

PUBLICATIONS

Total Citation Counts: ISI Web of Science-1413; Scopus – 1657; Google Scholar - 2520

Hirsch Index: ISI Web of Science-20; Scopus – 21; Google Scholar – 23

Tier 1 journals are defined to be ranked as Q1 by Journal Citation Reports (JCR) or Scimago Journal & country Rank (SJR): 39/50

PEER REVIEWED PAPERS (#CORRESPONDING AUTHOR, *STUDENT SUPERVISED)

- 1) *Eng, Z.H.D., Yick, Y.Y., Guo, Y., Xu, H., Reiner, M., Cham, T.J., & #Chen, S.H.A. (2017). 3D faces are recognized more accurately and faster than 2D faces, but with similar inversion effects. *Vision Research*, 138: 78-85. (Tier1; SJR-Q1; IF-1.971)
- 2) *Lee, S.-H., Walker, Z.M., Hale, J.B., & #Chen, S.H. A. (2017). Frontal-Subcortical Circuitry in Social Attachment and Relationships: A Cross-Sectional fMRI ALE Meta-Analysis. *Behavioural Brain Research*, 325(Pt B): 177-130. DOI: 10.1016/j.bbr.2017.02.032. (Tier1; SJR-Q1; IF-3.002)
- 3) *Archer, J. A., Lee, A., Qiu, A., & #Chen, S. H. A. (2017). Functional connectivity of resting-state, working memory and inhibition networks in perceived stress. *Neurobiology of Stress*. <http://dx.doi.org/10.1016/j.ynstr.2017.01.002>
- 4) Hale, J. B., Chen, S. H. A., Tan, S. C., Poon, K., Fitzer, K. R., & Boyd, L. A. (2016). Reconciling individual differences with collective needs: the juxtaposition of sociopolitical and neuroscience perspectives on remediation and compensation of student skill deficits. *Trends in Neuroscience and Education*, 5(2), 41-51. (Tier1; SJR-Q1; IFe-3.12)
- 5) *Ng, H. B. T., Kao, K. L. C., Chan, Y. C., Chew, E., Chuang, K. H., & #Chen, S. H. A. (2016). Modality specificity in the cerebro-cerebellar neurocircuitry during working memory. *Behavioural Brain Research*, 305, 164-173. (Tier1; SJR-Q1; IF-3.002)
- 6) *Archer, J. A., Lee, A., Qiu, A., & #Chen, S. H. A. (2016). A Comprehensive Analysis of Connectivity and Aging Over the Adult Life Span. *Brain connectivity*, 6(2), 169-185 (Tier2; SJR-Q2; IFe-2.57)
- 7) *Sobczak-Edmans, M., Ng, T. H. B., Chan, Y. C., Chew, E., Chuang, K. H., & #Chen, S. H. A. (2016). Temporal dynamics of visual working memory. *NeuroImage*, 124, 1021-1030. (Tier1; JCR-Q1; IF-5.463)
- 8) *Archer, J. A., Lim, Z. T., Teh, H. C., Chang, W. C., & #Chen, S. H. A. (2015). The Effect of Age on the Relationship Between Stress, Well-Being and Health in a Singaporean Sample. *Ageing International*, 40(4), 413-425. (SJR-Q3; IFe-0.65)
- 9) *Liu H. S. , & #Chen, S. H. A. (2015). Neural Correlates of Chinese and Japanese Semantic Processing: A Meta-analysis. *Language and Cognitive Science*, 1(1), 77-107.
- 10) *Khosrowabadi, R., Quek, H. C., Ang, K. K., Wahab, A., & Chen, S. H. A. (2015). Dynamic screening of autistic children in various mental states using pattern of connectivity between brain regions. *Applied Soft Computing*, 32, 335-346. (Tier1; JCR-Q1; IF-2.857)
- 11) *Lee, A., Ratnarajah, N., Tuan, T. A., Chen, S. H. A., & Qiu, A. (2015). Adaptation of brain functional and structural networks in aging. *PloS one*, 10(4), e0123462. (Tier1; JCR-Q1; IF-3.057)

- 12) *Eng, G. K., Sim, K., & #Chen, S. H. A. (2015). Meta-analytic investigations of structural grey matter, executive domain-related functional activations, and white matter diffusivity in obsessive-compulsive disorder: an integrative review. *Neuroscience & Biobehavioral Reviews*, 52, 233-257. (Tier1; JCR-Q1; IF-8.580)
- 13) *Teh, H. C., Archer, J. A., Chang, W., & #Chen, S. H. A. (2015). Mental Well-Being Mediates the Relationship between Perceived Stress and Perceived Health. *Stress and Health*, 31(1), 71-77. (Tier2; SJR-Q2; IFe-1.57)
- 14) *Wu, C. Y., Koh, J. Y. S., Ho, M. H. R., Miyakoshi, M., Nakai, T., & #Chen, S. H. A. (2014). Age-related differences in effective connectivity of brain regions involved in Japanese kanji processing with homophone judgment task. *Brain and Language*, 135, 32-41. (Tier1; JCR-Q1; IF-3.038)
- 15) *E, K. H., #Chen, S. H. A., Ho, M. H. R., & Desmond, J. E. (2014). A meta-analysis of cerebellar contributions to higher cognition from PET and fMRI studies. *Human Brain Mapping*, 35(2), 593-615. (Tier1; JCR-Q1; IF-4.962)
- 16) Lee, A., Archer, J., Wong, C. K. Y., Chen, S. H. A., & Qiu, A. (2013). Age-related decline in associative learning in healthy Chinese adults. *PloS one*, 8(11), e80648. (Tier1; JCR-Q1; IF-3.057)
- 17) *Matsuo, K., Chen, S. H. A., Liu, C. M., Liu, C. C., Hwang, T. J., Hsieh, M. H., ... & Tseng, W. Y. I. (2013). Stable signatures of schizophrenia in the cortical–subcortical–cerebellar network using fMRI of verbal working memory. *Schizophrenia Research*, 151(1), 133-140. (Tier1; JCR-Q1; IF-4.453)
- 18) Chen, C. L., Ikram, K., Anqi, Q., Yin, W. T., Chen, A., & Venketasubramanian, N. (2013). The NeuroAiD II (MLC901) in vascular cognitive impairment study (NEURITES). *Cerebrovascular Diseases*, 35(Suppl. 1), (Tier1; JCR-Q1; IF-3.359)
- 19) *Wu, C. Y., Ho, M. H. R., & #Chen, S. H. A. (2012). A meta-analysis of fMRI studies on Chinese orthographic, phonological, and semantic processing. *NeuroImage*, 63(1), 381-391. (Tier1; JCR-Q1; IF-5.463)
- 20) Yang, X., Goh, A., Chen, S. H. A., & Qiu, A. (2013). Evolution of hippocampal shapes across the human lifespan. *Human Brain Mapping*, 34(11), 3075-3085. (Tier1; JCR-Q1; IF-4.962)
- 21) *Matsuo, K., Chen, S. H. A., & Tseng, W. Y. I. (2012). AveLI: a robust lateralization index in functional magnetic resonance imaging using unbiased threshold-free computation. *Journal of Neuroscience Methods*, 205(1), 119-129. (Tier1; SJR-Q1; IF-2.053)
- 22) *Miyakoshi, M., Chen, S. H. A., Matsuo, K., Wu, C. Y., Suzuki, A., & Nakai, T. (2012). Extensive stimulus repetition leads older adults to show delayed functional magnetic resonance imaging adaptation. *Brain Imaging and Behavior*, 6(3), 357-365. (Tier1; SJR-Q1; IF-3.667)
- 23) *Ta, A. T., *Huang, S. E., Chiu, M. J., Hua, M. S., Tseng, W. Y. I., #Chen, S. H. A., & Qiu, A. (2012). Age-related vulnerabilities along the hippocampal longitudinal axis. *Human Brain Mapping*, 33(10), 2415-2427. (Tier1; JCR-Q1; IF-4.962)
- 24) *Chang, W. H., Tang, P. F., Wang, Y. H., Lin, K. H., Chiu, M. J., & Chen, S. H. A. (2010). Role of the premotor cortex in leg selection and anticipatory postural adjustments associated with a rapid stepping task in patients with stroke. *Gait & Posture*, 32(4), 487-493. (Tier1; JCR-Q1; IF-2.286)
- 25) *Matsuo, K., #Chen, S. H. A., Hue, C. W., Wu, C. Y., Bagarinao, E., Tseng, W. Y. I., & Nakai, T. (2010). Neural substrates of phonological selection for Japanese character Kanji based on fMRI investigations. *NeuroImage*, 50(3), 1280-1291. (Tier1; JCR-Q1; IF-5.463)
- 26) Tang, P. F., Ko, Y. H., Luo, Z. A., Yeh, F. C., Chen, S. H. A., & Tseng, W. Y. I. (2010). Tract-specific and region of interest analysis of corticospinal tract integrity in subcortical ischemic stroke: reliability and correlation with motor function of affected lower extremity. *American Journal of Neuroradiology*, 31(6), 1023-1030. (Tier1; JCR-Q1; IF-3.124)
- 27) Kirschen, M. P., Chen, S. H. A., & Desmond, J. E. (2010). Modality specific cerebro-cerebellar activations in verbal working memory: an fMRI study. *Behavioural Neurology*, 23(1, 2), 51-63. (Tier2; SJR-Q2; IF-1.629)
- 28) #Chen, S. H. A., *Matsuo, K., Nakai, T., Bagarinao, E., Ho, M. H. R., Tseng, W. Y. I., Liou, M., & Hue, C. W. (2009). Reproducibility analysis to validate language processes in Kanji and Chinese characters under different scanner environments. *Medical Imaging Technology*, 27(4), 217-223.

- 29) Kirschen, M. P., Davis-Ratner, M. S., Milner, M. W., **Chen, S. H. A.**, Schraedley-Desmond, P., Fisher, P. G., & Desmond, J. E. (2008). Verbal memory impairments in children after cerebellar tumor resection. *Behavioural Neurology*, 20(1-2), 39-53. (Tier2; SJR-Q2; IF-1.629)
- 30) **Chen, S. H. A.**, Tseng, W. Y. I., Nakai, T., Bagarinao, E., & Matsuo, K. (2008). A vision for translating neuroimaging techniques into clinical applications through collaboration. *Brain Imaging and Behavior*, 2(4), 350-358. (Tier1; SJR-Q1; IF-3.667)
- 31) Schulte, T., **Chen, S. H. A.**, Müller-Oehring, E. M., Adalsteinsson, E., Pfefferbaum, A., & Sullivan, E. V. (2006). fMRI evidence for individual differences in premotor modulation of extrastriatal visual-perceptual processing of redundant targets. *NeuroImage*, 30(3), 973-982. (Tier1; JCR-Q1; IF-5.463)
- 32) Desmond, J. E., **Chen, S. H. A.**, & Shieh P. B. (2005) Cerebellar transcranial magnetic stimulation (TMS) impairs verbal working memory performance. *Annals of Neurology*, 58, 553-560. (Tier1; JCR-Q1; IF-9.638)
- 33) **Chen, S. H. A.**, & Desmond, J. E. (2005). Temporal dynamics of cerebro-cerebellar network recruitment during a cognitive task. *Neuropsychologia*, 43(9), 1227-1237 (Tier1;JCR-Q1; IF-2.989)
- 34) **Chen, S. H. A.**, & Desmond, J. E. (2005). Cerebrocerebellar networks during articulatory rehearsal and verbal working memory tasks. *NeuroImage*, 24(2), 332-338. (Tier1; JCR-Q1; IF-5.463)
- 35) Kirschen, M. P., **Chen, S. H. A.**, Schraedley-Desmond, P., & Desmond, J. E. (2005). Load-and practice-dependent increases in cerebro-cerebellar activation in verbal working memory: an fMRI study. *NeuroImage*, 24(2), 462-472. (Tier1; JCR-Q1; IF-5.463)
- 36) Desmond, J. E., **Chen, S. H. A.**, DeRosa, E., Pryor, M. R., Pfefferbaum, A., & Sullivan, E. V. (2003). Increased frontocerebellar activation in alcoholics during verbal working memory: an fMRI study. *NeuroImage*, 19(4), 1510-1520. (Tier1; JCR-Q1; IF-5.463)
- 37) Woods, J. E., McKay, P. F., Masters, J., Seyoum, R., **Chen, A.**, La Duff, Lewis, M. J., & June, H. L. (2003). Differential Responding for Brain Stimulation Reward and Sucrose in High-Alcohol-Drinking (HAD) and Low-Alcohol-Drinking (LAD) Rats. *Alcoholism: Clinical and Experimental Research*, 27(6), 926-936. (Tier1; SJR-Q1; IF-2.829)
- 38) Sullivan, E. V., Harding, A. J., Pentney, R., Dlugos, C., Martin, P. R., Parks, M. H., Desmond, J. E., **Chen, S. H. A.**, Pryor, M. R., DeRosa, E., & Pfefferbaum, A. (2003). Disruption of frontocerebellar circuitry and function in alcoholism. *Alcoholism: Clinical and Experimental Research*, 27(2), 301-309. (Tier1; SJR-Q1; IF-2.829)
- 39) **Chen, S. H. A.**, Kareken, D. A., Fastenau, P. S., Trexler, L. E., & Hutchins, G. D. (2003). A study of persistent post-concussion symptoms in mild head trauma using positron emission tomography. *Journal of Neurology, Neurosurgery & Psychiatry*, 74(3), 326-332.(Editor's Choice) (Tier1; JCR-Q1; IF-6.431)
- 40) Desmond, J. E., & **Chen, S. H. A.** (2002). Ethical issues in the clinical application of fMRI: factors affecting the validity and interpretation of activations. *Brain and Cognition*, 50(3), 482-497. (Tier1; SJR-Q1; IF-2.399)
- 41) Kareken, D. A., Doty, R. L., Moberg, P. J., Mosnik, D., **Chen, S. H.**, Farlow, M. R., & Hutchins, G. D. (2001). Olfactory-evoked regional cerebral blood flow in Alzheimer's disease. *Neuropsychology*, 15(1), 18. (Tier1; JCR-Q1; IF-2.879)
- 42) Kareken, D. A., Lowe, M., **Chen, S. H. A.**, Lurito, J., & Mathews, V. (2000). Word rhyming as a probe of hemispheric language dominance with functional magnetic resonance imaging. *Neuropsychiatry, Neuropsychology, and Behavioral Neurology*, 13(4), 264-270. Journal name change to *Cognitive and Behavioral Neurology*. (Tier2; SJR-Q2; IF-1.185)
- 43) Lurito, J. T., Kareken, D. A., Lowe, M. J., **Chen, S. H. A.**, & Mathews, V. P. (2000). Comparison of rhyming and word generation with FMRI. *Human Brain Mapping*, 10(3), 99-106. (Tier1; JCR-Q1; IF-4.962)
- 44) Bernard-Opitz, V., **Chen A.**, Kok, A. J., & Sriram, N. (2000). Analysis of pragmatic aspects of communicative behavior in non-verbal and verbal children with autism. *Praxis der Kinderpsychologie und Kinderpsychiatrie (German)*, 49, 97-108. (SJR-Q4; IFe-0.33)

- 45) Haut, M. W., **Chen, S. H.**, & Edwards, S. (1999). Working memory, semantics, and normal aging. *Aging, Neuropsychology, and Cognition*, 6(3), 179-186. (Tier2; SJR-Q2; IFe-1.09)
- 46) June, H. L., Cason, C. R., **Chen, S. H. A.**, & Lewis, M. J. (1998). Buprenorphine alters ethanol self-administration in rats: dose-response and time-dependent effects. *Psychopharmacology*, 140(1), 29-37. (Tier1; JCR-Q1; IF-3.540)
- 47) Fekete, D. M., Bond, G. R., McDonel, E. C., Salyers, M., **Chen, A.**, & Miller, L. (1998). Rural assertive community treatment: A field experiment. *Psychiatric Rehabilitation Journal*, 21(4), 371. (Tier1; SJR-Q1; IFe-1.5)
- 48) **Chen, S. H. A.**, Thomas, J. D., Glueckauf, R. L., & Bracy, O. L. (1997). The effectiveness of computer-assisted cognitive rehabilitation for persons with traumatic brain injury. *Brain injury*, 11(3), 197-210. (Tier1; JCR-Q1; IF-1.822)
- 49) Svanum, S., **Chen, S. H. A.**, & Bublitz, S. (1997). Internet-based instruction of the principles of base rate and prediction: A demonstration project. *Behavior Research Methods, Instruments, & Computers*, 29(2), 228-231. Journal name changed to *Behavior Research Methods*. (Tier1; JCR-Q1; IF-3.048)
- 50) McDonel, E. C., Bond, G. R., Salyers, M., Fekete, D., **Chen, A.**, McGrew, J. H., & Miller, L. (1997). Implementing assertive community treatment programs in rural settings. *Administration and Policy in Mental Health*, 25(2), 153-173. Journal name change to *Administration and Policy in Mental Health and Mental Health Services Research* (Tier1; JCR-Q1; IF-2.415)
- 51) June, H. L., Duemler, S. E., Greene, T. L., Williams, J. A., Lin, M., Devaraju, S. L., **Chen, S. H. A.**, Lewis, M. J., & Murphy, J. M. (1995). Effects of the benzodiazepine inverse agonist RO19-4603 on the maintenance of tolerance to a single dose of ethanol. *Journal of Pharmacology and Experimental Therapeutics*, 274(3), 1105-1112. (Tier1; JCR-Q1; IF-3.760)
- 52) **Chen, S. H. A.**, & Bernard-Opitz, V. (1993). Comparison of personal and computer-assisted instruction for children with autism. *Mental retardation*, 31(6), 368. Journal name changed to *Intellectual and Developmental Disabilities* (Tier1; JCR-Q1; IF-1.545)

BOOK CHAPTERS & OTHERS

- 1) **Chen, S. H. A.** (2012). Editorial. *Neuroscience and Neuroeconomics*, 1:1-2
- 2) Nakai, T., Bagarinao, E., Miyakoshi, M., Matsuo, K., Tseng, W. Y. I., & ***Chen, S. H. A.** (2009). Medical GRID as an ICT for Collaborative Neuroimaging, *IEICE Technical Report MI2008-132*, 329-334.
- 3) Nakai, T., Bagarinao, E., Miyakoshi, M., Matsuo, K., Tseng, W. Y. I., & ***Chen, S. H. A.** (2009). Medical GRID as an ICT for Collaborative Neuroimaging, *IEICE Technical Report MI2008-132*, 329-334.
- 4) **Chen, S. H. A.** (2008). Transcranial magnetic stimulation in cognitive brain research. In M. Onozuka & C. T. Yen (Eds.). *Novel Trends in Brain Science: Brain Imaging, Learning and Memory, Stress and Fear, and Pain*. Editors. Japan: Springer.
- 5) Kareken, D. A., & **Chen S. H.** (2003). Evaluation and treatment of the patient with post-traumatic syndrome. In H. H. Batjer & C. M. Loftus (Eds.). *Textbook of Neurological Surgery*. Philadelphia: Lippincott Raven Publishers.
- 6) **Chen S. H. A.** (1994). In M. G., Eisenberg, (Ed.). *Keywords in Psychosocial Rehabilitation: A Guide to Contemporary Usage*. New York: Springer. (Served as a contributor).

PEER-REVIEWED CONFERENCE ABSTRACTS

Over **150 abstracts** presented at International Conferences, including annual meetings of American Society of Neuroradiology, American Psychological Association, Cognitive Neuroscience Society, Human Brain Mapping, International Neuropsychological Society (INS), International Society for Mind, Brain and Education (IMBES), International Society for Magnetic Resonance in Medicine (ISMRM), Neuroinformatics, Society for Neuroscience, Society for Neurobiology of Language

EDITORIAL ACTIVITIES

Editor-in-Chief: Neuroscience and Neuroeconomics

Associate Editor: Australian Journal of Psychology

Editorial Board: Neuropsychology Review

Ad Hoc reviewer for Journals:

Alcohol; Archives of Clinical Psychology (Taiwan); Behavioral Neurology; BioMed Central Pharmacology; BioMed Research International; Biological Psychiatry; Brain Imaging and Behavior; Brain Research; Brain Structure and Function; Cerebral Cortex; Chinese Journal of Psychology (Taiwan); The Clinical Neuropsychologist; Frontiers in Psychology; Frontiers in Human Neuroscience; Human Brain Mapping; Journal of International the Neuropsychological Society; NeuroImage; Journal of Neuroscience; Neurobiology of Aging; Neuropsychology; Neuropsychology Review; Psychological Medicine; Psychiatry Research; Schizophrenia Bulletin; Social Neuroscience

Ad Hoc reviewer for Conference abstracts:

Australian Psychological Society Annual Conference; Human Brain Mapping; International Society for Magnetic Resonance in Medicine

Ad Hoc reviewer for Grant Applications and Awards

National Science Council (Taiwan); Research Grants Council (Hong Kong); National Medical Research Council (Singapore)

INVITED SPEAKER/LECTURES IN LAST 5 YEARS

- 2017 *Neuroinformatics Challenge for Aging Neuroscience*
Neuroinformatics SIG: Neuroinformatics for Aging (BrainConnects, programme organizer)
Kuala Lumpur, Malaysia
- 2017 *A Visit to the Basement of the Brain*
Psychology Graduate Student Conference Keynote
- 2017 Deception: Understanding the Neurosubstrates
Temasek Labs @ NTU
- 2017 College of Humanities, Arts, and Social Sciences Faculty Research Sharing Day
Invited lecture, SSS, Nanyang Technological University
Making Connections between Brain and Behavior
- 2016 Third Asian Congress on Attention Deficit and Hyperactivity Disorder (ADHD)
ADHD - Optimizing Care along Life Trajectory, Invited Symposium speaker
Singapore
- 2016 Aging Brain and Language
International Symposium on Neuroscience and Cognition (Organizing Committee)
Singapore
- 2015 From Understanding Aging Networks to Modulating the Aging Brain
BrainConnects2015 (Keynote Lecture)
NCGG/JSPS NTU/NUS International Workshop (co-Chair of organizing Committee)
Nagoya University, Japan
- 2015 Asia Pacific Vision Conference
Member of Organizing Committee
- 2015 Modulating the Aging Brain to Learn
NRF Science of Learning Initiative: “When Neuroscience Meets Education”
Organizer representing CRADLE, NTU
- 2015 Modulating the Aging Brain
Workshop on “When cognitive neuroscience meets engineering and computer science”
NUS SINAPSE Workshop
- 2014 Age-related Changes in Functional Network Connectivity (Keynote Speech)
BrainConnects 2014
NCGG/JSPS NTU/NUS Joint Research Collaboration
Nanyang Technological University
- 2014 Understanding Cerebellar contribution to Higher Cognition through Neuroimaging
East-West Connections, NTU Human Cognition Initiative

- 2014 Cerebellar Contributions to Higher Cognition
Neuroscience Workshop
Lee Kong Chian School of Medicine, Singapore
- 2013 Cerebellar Contributions to Working Memory
Cognitive Neuroscience Seminar
Duke-NUS Graduate Medical School, Singapore
- 2013 Age-related Changes in Resting-State and Task-Activated Functional MRI Networks
7th International Symposium on Medical Information and Communication Technology
Tokyo, Japan

PROFESSIONAL AFFILIATIONS

Active Member:

American Psychological Association (APA); Human Brain Mapping Organization (HBMO); International Neuropsychological Society (INS); International Society for Mind, Brain and Education (IMBES); Singapore Psychological Society (SPS); Singapore Registry of Psychologists (SRP)

Past Member:

Cognitive Neuroscience Society (CNS); Society for Neuroscience (SfN); Taiwan Cognitive and Experimental Psychology Association; International Society for Magnetic Resonance in Medicine (ISMRM)

TEACHING and SUPERVISION

- Undergraduate Courses:* Abnormal Psychology, Clinical Child Psychopathology, Introduction to Clinical Psychology, Introduction to Clinical Neuropsychology, Research Methods in Social Sciences, Introduction to functional MRI
- Graduate Courses:* Advanced Child Psychopathology, Applied Functional Neuroscience, Assessment in Clinical Child Psychology, Special Topics in Cognitive Psychology
- Masters Students:* 10 graduated with 9 in Clinical Psychology and 1 by Research
- Doctorate Students:* 2 graduated, 3 theses submitted (1 co-supervision), 5 in progress (1 co-supervision)
- Post-Doctoral Fellows:* 6 Supervised

SERVICE to the PROFESSIONAL and RESEARCH COMMUNITY

- 2016-present Rehabilitation Research Institute of Singapore (RRIS), appointed member of the Rehabilitation Selection Panel (RSP)
- 2017 Singapore Allied Health Professionals Council, nominated member of the Complaints Panel
- 2010-2012 Singapore Medical Council, appointed member of the Complaints Panel
- 2013 Our Singapore Conversation in NTU participant
- 2009-2010 Programme Committee, Decade of the Mind, International Conference held in 2010, Singapore, jointly sponsored by A*STAR and DRTech of MINDEF (Ministry of Defense)
- 2006-2008 Consultant for Taiwan Alzheimer's Dementia Association