Chi-Lin Yu

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EDUCATION

National Taiwan University (NTU), Taipei, Taiwan   2017/2-present

Degree: M.S. Psychology

National Cheng Kung University (NCKU), Tainan, Taiwan   2012/9-2016/7

Degree: B.S. Psychology

PROFESSIONAL EXPERIENCE

NTU, Language Neuroscience Laboratory (Mentor: Prof. Tai-Li Chou)

– Develop functional magnetic resonance imaging (fMRI) studies to investigate the underlying mechanism of social cognition in typical developing children.

– Identify aberrant cognitive organizations in autism spectrum disorder (ASD) patients and propose a framework for their atypical social processing.

– Understand the differences in neural correlates of semantic processing between typical developing subjects and schizophrenia patients.

– Investigate language comprehension and the corresponding neural activities in bilingual adults.

– Design a new analysis method that implement machine learning algorithms to analyze near functional infrared spectroscopy (fNIRS) data.

– Establish a model to interpret the mechanism of human empathy.

NCKU, Language Acquisition and Cognitive Development Laboratory (Mentor: Prof. Jon-Fan Hu)

– Pioneer Taiwan's fNIRS research to explore the neural mechanism of first impression formation.

– Adopt behavioral experiments in embodied perspective to probe semantic properties of emotion words.

– Develop fMRI study to investigate the underlying relationships between ToM and humor processing.

– Establish the valid and reliable scale to measure self-report empathy ability

– Design developmental experiments to understand the interaction between ToM, empathy and social development.

NCKU, Cognitive and Affective Neuroscience Laboratory (Mentor: Prof. Der-Yow Chen)

– Develop a multi-fMRI scanners hyper-scanning paradigm to investigate the neural underpinnings of social interaction.

– Investigate the relationship between perspective taking and emotion processing using interactive social decision-making tasks.

– Probe the underlying metalizing processes and cognitive abilities of playing Chinese Go from the experimental psychology perspective.

NCKU, Institute of Education (Mentor: Prof. Ching-Fan Sheu)

– Design an user-friendly web application for exploratory factor analysis (EFA) by using shiny package in R

– Develop exploratory graphical tools for Event Related Potentials (ERPs) and fNIRS data analysis

PUBLICATIONS

Journal Articles

Yu, C. L., & Sheu, C. F. (2018). EFAshiny: An User-Friendly Shiny Application for Exploratory Factor Analysis. *Journal of Open Source Software*, 3(22), 567

Yu, C. L., Wang, M. Y., & Hu, J. F. (2016). Valence processing of first impressions in the dorsomedial prefrontal cortex: a near-infrared spectroscopy study. *NeuroReport*, 27(8), 574-579.

Journal Articles : Under Review

Yu, C. L. & Chou, T. L. "A Dual Route Model of Empathy: A Neurobiological Prospective"

Yu, C. L., Chen, H. C., Yang, Z. Y., & Chou, T. L. "Multi-Time Points Analysis: A Time Course Analysis with Functional Near-Infrared Spectroscopy"

Hu, J. F., **Yu, C. L.**, et al. "The Role of Theory of Mind Ability in Verbal Humor Comprehension: A functional magnetic resonance imaging study" *(As the corresponding author)*

Journal Articles : In Preparation

Yu, C. L., Chou, T. L., et al. "Aberrant Functional Brain Organization of Youths with Autism: An Theory of Mind Network Perspective"

Yu, C. L., Causeur D., Lee Y. s., & Sheu, C. F. "ggerp: Visualization of Event-Related Brain Potentials with ggplot2"

Yu, C. L., Wang, M. Y., & Hu, J. F. "Early Development of the Relationship between Empathy and Theory of Mind" *(As the co-first author)*

Yu, C. L., et al. "The Impact of Facial Expressions On the Rating of Valence, Arousal, and Typicality for Positive and Negative Emotion Words:An Embodied Cognition Approach"

Hu, J. F., **Yu, C. L.**, et al. "The Development of Chinese version of Empathy Quotient"

Conference Presentations

Yu, C. L., Sheu, C. F. (2017). "EFAshiny: A shiny application for exploratory factor analysis", presented as a poster in 48th annual meeting of the Society for Computers in Psychology (SCiP).

Yu, C. L., Sheu, C. F., et al. (2017). "ggerp: An R Package for Graphical Explorations of Event-Related Potentials", presented as oral presentation in a symposium of 55th Annual Taiwan Psychology Association Meeting.

Yu, C. L., Sheu, C. F., et al. (2016). "Using R to explore ERP data", presented as oral presentation in a symposium of 46th annual meeting of the Society for Computers in Psychology (SCiP).

Yu, C. L., et al. (2015). "Using false belief task to explore the effect of empathy situation on theory of mind function", presented as a poster at the 37th Annual Cognitive Science Society Meeting.

Chu, C., **Yu, C. L.**, et al. (2015). "An Embodied Cognition Approach to Studying Emotional Words:The Impact of Positive Facial Experiences on Semantic Properties Judgment", presented as a poster at the 37th Annual Cognitive Science Society Meeting.

Tsai Y. L.,**Yu, C. L.**, et al. (2015). "The differences of semantic features between Chinese concrete, abstract, and emotional concept", presented as a poster at the 37th Annual Cognitive Science Society Meeting.

Chuang Y. Y., **Yu, C. L.**, et al. (2015) "An Embodied Cognition Approach to Studying the Impact of Negative Facial Experiences on Semantic Properties of Emotional Words", presented as a poster at the 8th Annual Conference on Embodied and Situated Language Processing.

Chen S. C., Hu, J. F., Chuang Y. Y., Chu, C., & **Yu, C. L.** (2015). "Releasing Strength in Imagination Constructs Implicit Association of Simulated Action and Response Index", presented as a poster at the 8th Annual Conference on Embodied and Situated Language Processing.

TEACHING EXPERIENCE

2017 Teaching Assistant, General Psychology Course, Mentor: Prof. Tai-Li Chou

2016 Teaching Assistant, Cognitive Neuroscience Course, Mentor: Prof. Shu-Lan Hsieh

2016 Teaching Assistant, Assessment Practicum Developmental Psychology Course, Mentor: Prof. Jon-Fan Hu

2016 Teaching Assistant, Seminar on Emotion and Memory Course, Mentor: Prof. Der-Yow Chen

AWARDS & HONORS

2016 NCKU President Wei-Noon Wang Memorial Scholarship

2016 KYMCO Scholarship for outstanding student

2016 Ren-Da Industrial Park outstanding student scholarship

2016 Rank 1st in the class of NCKU psychology department in 2015~2016 academic year

2015 The title of outstanding student for the academic achievement

2015 Rank 1st in the class of NCKU psychology department in 2014~2015 academic year

2015 Tainan True Jesus Church outstanding student scholarship

2015 Taiwan Ministry of Science and Technology Research Scholarship (Students : Wang, M. Y. , Yu, C. L., et al.; Project Number:104-2815-C-006-149–H)

2014 Tainan True Jesus Church outstanding student scholarship

2014 The second place award of posters in the Experimental Psychology Course

SKILLS

Languages: Mandarin: Native Fluency; English/Taiwanese: Excellent Fluency

Experimental skill: Experimental Design, Imaging Data Analysis, Scale Design and Analysis, Statical Modeling

Computer programing: R, MATLAB, SPM, E-PRIME, HOMER, Oro.Nifti, ANTsR, fslR

SELECTED EXTRACURRICULAR

2016 Valedictorian, Department of Psychology, NCKU

2015 Representatives of Students in School, Department of Psychology, NCKU

2015 Chief Counselor, Psychology Summer Camp, NCKU

2015 Volunteer Assistant, The 7th Annual Taiwan Association of Clinical Psychology Meeting

2015 Symposium Student for resting state fMRI, Mind Research and imaging center, NCKU

2015 Symposium Student for Cognitive Neuroscience of Aging, Mind Research and imaging center, NCKU

2014 Activity Leader, The Night of Psychology, NCKU

2014 Execute Officer, Psychology Freshman Camp, NCKU

2014 Chief Counselor, Kaohsiung Area Alumni Association, NCKU

2013 Leader, The Week of Psychology, NCKU

2013 Member, Students Association in department of psychology, NCKU

2013 Program Director, Psychology Summer Camp, NCKU