

Chi-Lin Yu

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EDUCATION

National Taiwan University (NTU), (Taipei, Taiwan)

2017/2 ~2018/6

Degree: M.S. Psychology

National Cheng Kung University (NCKU), (Tainan, Taiwan)

2012/9~2016/6

Degree: B.S. Psychology

PROFESSIONAL EXPERIENCE

National Taiwan University, Dept. of Psychology (Taipei, Taiwan)

- *Position: Researcher and Data Scientist of Social Cognition, Language Neuroscience Laboratory*
- 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 infrared spectroscopy (NIRS) data.
- Establish a model to interpret the mechanism of human empathy.
- *Mentor: Prof. Tai-Li Chou, PhD*

National Cheng Kung University, Dept. of Psychology (Tainan, Taiwan)

- *Position: Researcher and Data Scientist of Child Development, Language Acquisition and Cognitive Development Laboratory*
- Pioneer Taiwan's NIRS 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.
- *Mentor: Prof. Jon-Fan Hu, PhD*

National Cheng Kung University, Dept. of Psychology (Tainan, Taiwan)

- *Position: Researcher and Programmer of Social Cognition, Cognitive and Affective Neuroscience Lab*
- 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.
- *Mentor: Prof. Der-Yow Chen, PhD*

National Cheng Kung University, Dept. of Psychology (Tainan, Taiwan)

- *Position: Teaching Assistant*
 - General Psychology Course, *Mentor: Prof. Tai-Li Chou, PhD*
 - Cognitive Neuroscience Course, *Mentor: Prof. Shu-Lan Hsieh, PhD*
 - Assessment Practicum Developmental Psychology Course, *Mentor: Prof. Jon-Fan Hu, PhD*
 - Seminar on Emotion and Memory Course, *Mentor: Prof. Der-Yow Chen, PhD*
- *Position: Research Collaborator*
 - Design an user-friendly web application for exploratory factor analysis (EFA) by using shiny package in R, *Mentor: Prof. Ching-Fan Sheu, PhD*
 - Develop exploratory graphical tools for Event Related Potentials (ERPs) and fNIRS data analysis, *Mentor: Prof. Ching-Fan Sheu, PhD*
 - Investigate the neural basis of Zhong-Yong thinking in the regulation of negative emotion from social cognitive neuroscience perspective, *Mentor: Prof. Li-Fang Chou, PhD*
 - Apply machine learning algorithms to resting state NIRS data to predict human cognitive abilities, *Mentor: Prof. Tai-Li Chou, PhD; Prof. Po-Hsien Huang, PhD; Prof. Hsin-Chin Chen, PhD*

JOURNAL PUBLICATIONS

Chi-Lin Yu, Min-Ying Wang, Jon-Fan Hu. (2016) “Valence Processing of First Impressions in the Dorsomedial Prefrontal Cortex: A Near-Infrared Spectroscopy Study”, *NeuroReport*, 27(8), 574-579.

Chi-Lin Yu, Tai-Li Chou, et al. (in preparation) “Aberrant Functional Brain Organization of Youths with Autism: An Theory of Mind Network Perspective”

Chi-Lin Yu, Hsin-Chin Chen, Zih-Yun Yang, Tai-Li Chou. (in submission) “Multi-Time Points Analysis: A Time Course Analysis with Functional Near-Infrared Spectroscopy”

Chi-Lin Yu, David Causeur, Yuh-shiow Lee, Ching-Fan Sheu (in submission) “Exploring Event-Related Potentials Data with the ggerp R Package”

Jon-Fan Hu, **Chi-Lin Yu**, et al. (in submission) “The Role of Theory of Mind Ability in Verbal Humor Comprehension: A functional magnetic resonance imaging study”

- As a co-first author

Chi-Lin Yu, et al. (in submission) “The Impact of Facial Expressions On the Rating of Valence, Arousal, and Typicality for Positive and Negative Emotion Words : An Embodied Cognition Approach”

Chi Lin Yu, Min-Ying Wang, Jon-Fan Hu. (in preparation) “Early Development of the Relationship between Empathy and Theory of Mind”

- As a co-first author

Jon-Fan Hu, **Chi-Lin Yu**, et al. (in submission) “The Development of Chinese version of Empathy Quotient”

CONFERENCE PUBLICATIONS AND PRESENTATIONS

Chi-Lin Yu, Ching-Fan Sheu (2017) “EFAshiny: A shiny application for exploratory factor analysis”, will

be presented as a poster in 48th annual meeting of the Society for Computers in Psychology (SCiP).

Chi-Lin Yu, 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.

Chi-Lin Yu, Ching-Fan Sheu, 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).

Chi-Lin Yu, et al. (2015) “The Role of Dorsomedial Prefrontal Cortex in Impression Formation: A Near Infrared Spectroscopy Study”, presented as oral presentation in a symposium of 54th Annual Taiwan Psychology Association Meeting.

Chi-Lin Yu, 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.

Ching Chu, **Chi-Lin Yu**, 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.

Yueh-Lin Tsai, **Chi-Lin Yu**, 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.

Ya-Yun Chuang, **Chi-Lin Yu**, 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.

SOFTWARE PUBLICATIONS

Chi-Lin Yu, et al. (2017) “ggerp: An R Package for Graphical Explorations of Event-Related Potentials ”, <https://github.com/PsyChiLin/ggerp>.

Chi-Lin Yu, et al. (2017) “EFAshiny: A shiny application for exploratory factor analysis”, <https://psychilin.shinyapps.io/EFAshiny>.

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 : Min-Ying Wang, Chi-Lin Yu, 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: Big Data Analysis, Scale Design and Analysis, Statical Modeling, Experimental Design, Imaging Data Analysis, Group leading

Computer programing: R, MATLAB, SPM8, 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