

Chi-Lin Yu

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EDUCATION

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

2017~Present

Degree: M.S. Psychology

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

2012~2016

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 of social cognition to investigate the underlying mechanism of empathy and Theory of mind (ToM) in typical developing children
- Identify aberrant cognitive organizations in autism spectrum disorder (ASD) patients and propose a framework for their atypical social processing
- Establish a model to interpret the mechanism of human empathy
- Design a new analysis method that implement machine learning algorithms to analyze functional near infrared spectroscopy (fNIRS) data

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

- *Position: Researcher and Data Scientist of Child Development, Language Acquisition and Cognitive Development Laboratory*
- Establish the valid and reliable scale for measurement of self-report empathy ability
- Design developmental experiments to probe the interaction between ToM, empathy and social development.
- Develop fMRI study to investigate the mechanism of Theory of mind, empathy and their relationships with humor processing.
- Pioneer Taiwan's fNIRS research of social neuroscience to establish the hypothesis of social cognition ability in human.
- Use embodied perspective and experimental psychological methods to investigate semantic properties and dimensions of emotion words.
- *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 the first multi-fMRI scanner hyper-scanning paradigm to investigate the mechanism of social interaction.
- Investigate the relationship between perspective taking and emotion processing using social interaction experiments.

- 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*
 - 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*
 - Applying machine learning algorithms to resting state fNIRS data for predicting human cognitive abilities, *Mentor: 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*.

Chi-Lin Yu, 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. (under review) “Multi-Time Points Analysis: A Time Course Analysis with Functional Near-Infrared Spectroscopy”

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

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

- As co-first author

Chi-Lin Yu, Jon-Fan Hu, et al. (under revision) “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 co-first author

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

Li-Fang Chou, **Chi-Lin Yu**, et al. (in preparation) “The Critical Role of Zhong-Yong thinking in the Regulation of Negative Emotion: A Social Cognitive Neuroscience Approach”

I-Ting Cheng, Chun-Hsuan Chiu, **Chi-Lin Yu**, and Jon-Fan Hu (under revision) “The development of recognition of emotional facial expressions and the use of emotional words in preschoolers”

Sau-Chin Chen, Jon-Fan Hu, **Chi-Lin Yu**. (under revision) “Evaluate Simulation Effect of Motor Experiences in Sentence Reading”

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.

Sau-Chin Chen, Jon-Fan Hu, Ya-Yun Chuang, Ching Chu, **Chi-Lin Yu**, (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.

AWARDS & HONORS

2017 Rank 2nd in the class of NTU psychology department (M.S. program) in 2017~2018 academic year

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, Statically 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