

PIN-HAO ANDY CHEN, Ph.D.

Department of Psychology,
Neurobiology and Cognitive Science Center,
Center for Artificial Intelligence and Advanced Robotics,
National Taiwan University, Taipei, Taiwan

andyphchen@ntu.edu.tw
chenlaboratory.com

ACADEMIC POSITIONS

Assistant Professor Department of Psychology National Taiwan University, Taipei, Taiwan	2020-Present
Postdoctoral Fellow Department of Psychological and Brain Sciences (with Luke J. Chang, Ph.D.) Dartmouth College, Hanover, NH, USA	2017-2019

EDUCATION

Dartmouth College , Hanover, NH, USA Ph.D. in Psychological and Brain Sciences	2017
National Taiwan University , Taipei, Taiwan M.Sc. in Clinical Psychology. Licensed Clinical Psychologist	2009
National Taiwan University , Taipei, Taiwan B.Sc. in Psychology	2005

FUNDING

Principal Investigator , Ministry of Science and Technology, Taiwan. Toward a Computational Understanding of interacting minds and collective minds (NTD \$8,209,000).	2022-2026
Co-PI, Ministry of Education, Taiwan. Psychological science of well-being.	2021-2023
Principal Investigator , Ministry of Science and Technology, Taiwan. Towards a Computational Understanding of Mianzi across Cultures: A Computational Neuroscience Approach (NTD \$7,500,000).	2020-2023
Principal Investigator , Chiang Ching-Kuo Foundation for International Scholarly Exchange, Scholar Grant. Towards a Computational Understanding of Social Status and Mianzi in Chinese and American Cultures (USD \$25,000).	2017-2018

AWARDS AND HONORS

2030 Cross-Generation Young Scholars Program, MOST, Taiwan	2022-2023
MOST Undergraduate Research Innovation Award - Advisor Acknowledgment	2022
Ministry of Science and Technology (MOST) Ta-You Wu Memorial Award	2021
Young Scholar Fellowship Program, Ministry of Science and Technology, Taiwan	2019-2022
Social and Affective Neuroscience Society Poster Award	2019
Outstanding Abstract Travel Award, Social Personality Health Network	2019
Methods in Neuroscience at Dartmouth Computational Summer School	2018
DataBlitz Travel Award, Self-Regulation Preconference, SPSP	2016
Student Travel Award, Society for Personality and Social Psychology (SPSP)	2015
Dartmouth Graduate Studies Graduate Travel Award, Dartmouth College	2014
Studying Abroad Scholarship, Ministry of Education, Taiwan	2013-2015
Student Travel Award, International Cultural Neuroscience Consortium	2012
Fulbright Graduate Study Grant – Full Grant, Fulbright Taiwan	2011-2013
The Su Hsiang-Yu Scholarship, Taiwanese Psychological Association	2009
College of Science Dean’s Award, National Taiwan University, Taiwan	2009
Student Travel Award, National Science Council, Taiwan	2009

PUBLICATIONS

- [1] **Chen, P.-H. A.** & Qu, Y. (2021). Taking a computational cultural neuroscience approach to study parent-child similarities in diverse cultural contexts. *Frontiers in Human Neuroscience*, *15*, 703999.
- [2] Chang, L. J., Jolly, E., Cheong, J. H., Rapuano, K., Greenstein N., **Chen, P.-H. A.**, & Manning, J. R. (2021). Endogenous variation in ventromedial prefrontal cortex state dynamics reflects affective experience in naturalistic viewing. *Science Advances*, *7*(17), eabf7129.
- [3] **Chen, P.-H. A.**, Jolly, E., Cheong, J. H., & Chang, L. J. (2020). Intersubject representational similarity analysis reveals individual variations in affective experience when watching erotic movies. *Neuroimage*, *216*, 116851.
- [4] **Chen, P.-H. A.**, Cheong, J. H., Jolly, E., Elhence, H., Wager, T. D., & Chang, L. J. (2019). Socially transmitted placebo effects. *Nature Human Behaviour*, *3*, 1295-1305.
Article commentary in *Nature Human Behaviour* (“News and Views: Subtle cues transmit placebo effects” by H. Walach).
- [5] **Chen, P.-H. A.**, Kelley, W. M., Lopez, R. B., & Heatherton, T. F. (2019). Reducing reward responsivity and daily food desires in female dieters through domain-specific training. *Social Neuroscience*, *14*(4), 470-483.
- [6] Lopez, R. B., **Chen, P.-H. A.**, Huckins, J. F., Hofmann, W., Kelley, W. M., & Heatherton, T. F. (2017). A balance of activity in brain control and reward systems predicts self-regulatory outcomes. *Social Cognitive and Affective Neuroscience*, *12*(5), 832-838.
- [7] **Chen, P.-H. A.**, Chavez, R. S., & Heatherton, T. F. (2017). Structural integrity between executive control and reward regions of the brain predicts body fat percentage in chronic dieters. *Cognitive Neuroscience*, *8*(3), 162-166.

- [8] **Chen, P.-H. A.**, Whalen, P. J., Freeman, J. B., Taylor, J. M., & Heatherton, T. F. (2015) Brain reward activity to masked in-group smiling faces predicts friendship development. *Social Psychological and Personality Science*, 6(4), 415-421.
- [9] **Chen, P.-H. A.**, Heatherton, T. F., & Freeman, J. B. (2015). Brain-as-predictor approach: an alternative way to explore acculturation processes. In Warnick, J. E. & Landis, D. (Eds.), *Neuroscience in intercultural contexts*. pp. 143-170. New York: Springer.
- [10] **Chen, P.-H. A.**, Wagner, D. D., Kelley, W. M., & Heatherton, T. F. (2015). Activity in cortical midline structures is modulated by self-construal changes during acculturation. *Culture and Brain*, 3(1), 39-52.
- [11] **Chen, P.-H. A.**, Wagner D. D., Kelley, W. M., Powers, K. E., & Heatherton, T. F. (2013). Medial prefrontal cortex differentiates self from mother in Chinese: evidence from self-motivated immigrants. *Culture and Brain*, 1(1), 3-15.
- [12] Kuo, C. Y., Tseng, H. H., Wu, Y.W., Cheng, M. F., **Chen, P. H.**, Hsieh, S. C., & Liu, C. M. (2012). Chronic schizophrenia comorbid with neuropsychiatric system lupus erythematosus. *Taiwanese Journal of Psychiatry*, 26(1), 52-57.

MANUSCRIPTS UNDER REVIEW

Underlined authors are current or former trainees (graduate, undergraduate, and research assistants); * indicates co-first authorship.

Kuo, Y.-S. A., * Chou, F.-C. B., * & **Chen, P.-H. A.** (Under review). Social isolation strengthens the association between intersubject similarity in fantasy and similarity in affective appraisal. *PsyArXiv*. doi.org/10.31234/osf.io/64bjc

Chen, P.-H. A., Fareri, D., Güroğlu, B., Delgado, M.R., & Chang, L. J. (Under revision at Nature Neuroscience). Towards a neurometric-based construct validity of trust. *bioRxiv*, doi.org/10.1101/2021.07.04.451074

Chang, L. J., Li, X., Nguyen, K., Ranger, M., Begunova Y., **Chen, P.-H. A.**, Castrellon, J.L., Samenez-Larkin, G. R., Zald, D.H., Fareri, D. S., Delgado, M. R., & Tomova, L. (Under review). A neural signature of reward. *bioRxiv*, doi.org/10.1101/2022.08.23.504939

Lee, I.-C. *, **Chen, P.-H. A.** *, & Teoh, Y.-S. * (Under review). Investigating subjective well-being among three subordinate groups from a power-basis theory perspective.

MANUSCRIPTS IN PREPARATION

Underlined authors are current or former trainees (graduate, undergraduate, and research assistants); * indicates co-first authorship.

Chou, F.-C. B., * Chen, Y.-C. C., * Kuo, Y.-S. A., Hsiao, P.-Y. A., Lin, C. R., Huang, Y.-W. Y., Pan, H.-J. S., & **Chen, P.-H. A.** (Manuscript in preparation). Synchronization of fear facial dynamics under a large-scale lockdown stressor.

Chou, F.-C. B.,* & Chen, P.-H. A.* (Manuscript in preparation). Using intersubject representational similarity analysis to examine the influence of self-monitoring on food-cue reactivity in chronic dieters.

Chen, P.-H. A. & Chou, F.-C. B. (Manuscript in preparation). Intersubject representational similarity analysis uncovers individual variations in experiencing effortful self-control.

Hsiao, P.-Y. A., Kim, M.J., Chou, F.-C. B., & Chen, P.-H. A. (Manuscript in preparation). Uncovering the association between individual variations in state anxiety and emotional reactivity in the fusiform gyrus by ISRSA.

INVITED TALKS

Department of Psychology, National Chengchi University, Taiwan	2023
Shared Reality Preconference, Society for Personality and Social Psychology 2023 Annual Meeting	2023
Taiwanese Psychological Association 2022 Annual Conference	2022
2022 Taiwanese Cognitive Neuroscience Summer School	2022
2022 Humanities and Social Sciences Summer School	2022
MOST 2022 Psychological Science Research Symposium	2022
Neurobiological and Cognitive Science Center, National Taiwan University	2022
2022 Positive Emotion Preconference, Society for Affective Science Conference	2022
Institute of Cognitive Neuroscience, NYCU, Taiwan	2022
Advances in Cultural Psychology Preconference, Society for Personality and Social Psychology 2022 Annual Meeting	2022
MOST 2022 Psychological Science and Brain Imaging Research Symposium	2022
Department of Psychology, National Cheng Kung University, Taiwan	2021
Department of Cognitive Science, Indian Institute of Technology Kanpur, Virtual Colloquium	2021
Society for Affective Science 2021 Annual Conference, Virtual Conference	2021
Department of Psychology, University of Hong Kong, Virtual Colloquium	2021
NTU-Tohoku AI Symposium, Virtual Symposium	2021
Department of Psychology, Sungkyunkwan University, Virtual Colloquium	2021
Center for Survey Research, Academia Sinica, Taipei, Taiwan	2021
NTU Center for Artificial Intelligence and Advanced Robotics, Taipei, Taiwan	2021
Institute of Ethnology, Academia Sinica, Taipei, Taiwan	2020
International Cultural Neuroscience Society Meeting, Virtual Conference	2020
Graduate Institute of Brain and Mind Sciences, National Taiwan University	2020
Institute of Cognitive Neuroscience, National Central University, Taiwan	2020
Asian Association of Social Psychology 13 th Biennial Conference, Taiwan	2019
Association for Psychological Science 31 st Annual Convention, Washington, D.C.	2019
Department of Psychology, National Taiwan University, Taiwan	2019
Department of Psychology, New York University, NYC, NY	2019
College of Science, National Chengchi University, Taiwan	2019
Department of Psychology, National Chengchi University, Taiwan	2019
Psychology Program, New York University Abu Dhabi, UAE	2019
Health Preconference, Society for Personality and Social Psychology 20 th Annual Meeting, Portland, OR	2019
Department of Psychology, National Chengchi University, Taiwan	2018
New England Research on Decision-Making, Harvard University, MA	2018

Social and Affective Neuroscience Society 11 th Annual Meeting, NYC, NY	2018
Cognitive Neuroscience Society 25 th Annual Meeting, Boston, MA	2018
Institute of Cognitive Neuroscience, National Central University, Taiwan	2016
Department of Psychology, National Cheng Kung University, Taiwan	2016
Self-Regulation Preconference, Society for Personality and Social Psychology 17 th Annual Meeting, San Diego, CA	2016
Cognitive Neuroscience Society 22 nd Annual Meeting, San Francisco, CA	2015
Department of Psychology, National Taiwan University, Taiwan	2015
Advance in Cultural Psychology Preconference, Society for Personality and Social Psychology 16 th Annual Meeting, Long Beach, CA	2015
Social Brain Sciences Symposium 2014, Boston College, MA	2014
Social Brain Sciences Talk Series, Dartmouth College, NH	2012

CHAired SYMPOSIA & SALON

Chair, 2023 Taiwanese Society of Cognitive Neuroscience Annual Conference <i>Using IS-RSA to map intersubject similarity across neural and behavioral measurement</i>	2023
Chair, 12 th Conference for Chinese Psychologists. <i>Chinese psychologists and social neuroscience</i>	2022
Salon Host, 2021 Society for Affective Science Annual Virtual Conference. <i>Finding a job and setting up a lab overseas</i>	2021
Chair, Asian Association of Social Psychology 13 th Biennial Conference, Taiwan. <i>Toward a neuro-scientific understanding of social and cultural influence</i>	2019
Co-Chair, Association for Psychological Science 31 st Annual Convention, Washington, D.C. <i>Expectations in context: the role of social factors in healthcare treatments</i>	2019

PROFESSIONAL SERVICE

Social & Affective Neuroscience Society, EDIJ Task Force	2023-Present
Indigenous Psychological Research in Chinese Societies, Editorial Board	2023-Present
Social & Affective Neuroscience Society, Secretary	2022-Present
Journal of Cognitive Neuroscience, Consulting Editor	2021-Present
Social & Affective Neuroscience Society, Abstract Review Committee	2023
Social & Affective Neuroscience Society, Member-at-Large	2021-2022
Society for Affective Science, Program Committee	2021-2022
The Su Hsiang-Yu Scholarship, NTU Review Committee	2022
Social & Affective Neuroscience Society, Innovation Award Committee	2022
12 th Conference for Chinese Psychologists, Program Committee	2022
Journal of Cognitive Neuroscience Travel Fellowship Committee	2022
Social & Affective Neuroscience Society, Meeting Program Committee	2021
The Su Hsiang-Yu Scholarship, NTU Review Committee	2020
Social & Affective Neuroscience Society, Meeting Program Committee	2020
Social Personality Health Network, Poster & Award Review Committee	2020

MENTORING & RESEARCH ADVISING

Master Program Students

Feng-Chun Ben Chou	2022-Present
Yu-Chieh Chole Chen	2022-Present
<u>MOST Undergraduate Research Innovation Award</u>	2022
<u>MOST Undergraduate Research Grant</u>	2021
Wei-Ling Peng	2022-Present
Yen-Si Ashlee Kuo	2021-Present

Undergraduate Research Project

Yu-Ze Nemo Chen	2022-Present
Tung-An Phoenix Chiu	2022-Present
Yu-Wen Julie Liu	2022-Present
Wen-Ting Wendy Lee	2022-Present
Po-Yuan Alan Hsiao	2021-Present
<u>NTU Undergraduate Thesis - Dean's Award</u>	2022
<u>NSTC Undergraduate Research Grant</u>	2022
Yu-Chieh Chole Chen	2020-2022
Feng-Chun Ben Chou	2020-2022
Hsuan-Jung Sharon Pan	2020-2022
Chiang Rose Lin	2020-2022

Thesis/Dissertation Committee

Yi-Hsiu Lee, Graduate Institute of Brain and Mind Sciences, NTU Advisor: Joshua Goh	2022
Hao-Chun Yang, Department of Electrical Engineering, NTHU Advisor: Chi-Chun, Lee	2022
Zhilin Su, Graduate Institute of Brain and Mind Sciences, NTU Advisor: Ming-Tsung Tseng	2020

TRAINEE CONFERENCE PRESENTATION

Underlined authors are current or former trainees (graduate, undergraduate, and research assistants)

Chen, P.-H. A., Hsiao, P.-Y. A., Peng, W.-L., Chen, Y.-Z. N., & Chou, F.-C. B. (2023). Cross-modality models uncover differential psychological processes driven by polarized ideology. Social & Affective Neuroscience Society 2023 Annual Conference, Santa Barbara, CA.

Chen, P.-H. A., Kuo, Y.-S. A., Chou, F.-C. B., & Chen, Y.-C. C. (2023). The dark side of shared experience: its amplification effect on out-group hate. Shared Reality Preconference, Society for Personality and Social Psychology 2023 Annual Meeting.

Lee, W.-T. W., Chou, F.-C. B., Lin, C. R., & **Chen, P.-H. A.** (2022). Taking a machine-learning approach to predict loneliness. 60th Anniversary of Taiwanese Psychological Association Conference.

Chen, Y.-Z. N., Hsiao, P.-Y. A., Chou, F.-C. B., & **Chen, P.-H. A.** (2022). Cultural differences in preferences. 60th Anniversary of Taiwanese Psychological Association Conference.

Chiu, T.-A. P., Chou, F.-C. B., Kuo, Y.-S. A., & Chen, P.-H. A. (2022). Facial synchrony during naturalistic viewing. 2022 NTU Neurobiology and Cognitive Science Center Summer Internship Conference.

Chen, Y.-Z. N., Hsiao, P.-Y. A., Chou, F.-C. B., & Chen, P.-H. A. (2022). Cultural differences in preferences. 2022 NTU Neurobiology and Cognitive Science Center Summer Internship Conference.

Chou, F.-C. B., Hsiao, P.-Y. A., Jolly, E., Chang, L.J., & Chen, P.-H. A. (2022). Taking a naturalistic neuroimaging approach to examine shared responses across cultures. Social & Affective Neuroscience Society 2022 Virtual Conference.

Pan, H.-J. S., Chou, F.-C. B., Huang, Y.-W. Y., Kuo, Y.-S. A., Chen, Y.-C. C., Hsiao, P.-Y. A., Lin, C. R., & Chen, P.-H. A. (2022). Synchronization of facial behaviors under and after a large-scale social stressor. Social & Affective Neuroscience Society 2022 Virtual Conference.

Kuo, Y.-S. A., Huang, Y.-W. Y., Chou, F.-C. B., Chen, Y.-C. C., Hsiao, P.-Y. A., Lin, C. R., Pan, H.-J. S., & Chen, P.-H. A. (2022). Social isolation enhances the effect of fantasy on appraising affective experiences. Social & Affective Neuroscience Society 2022 Virtual Conference.

Hsiao, P.-Y. A., Chou, F.-C. B., Lin, Y.-J., Jolly, E., Chang, L.J., & Chen, P.-H. A. (2022). Intersubject representational similarity analysis reveals individual variations in affective experience transcending cultural differences. Social & Affective Neuroscience Society 2022 Virtual Conference.

Huang, Y.-W. Y., Kuo, Y.-S. A., Chou, F.-C. B., Chen, Y.-C. C., Hsiao, P.-Y. A., Lin, C. R., Pan, H.-J. S., & Chen, P.-H. A. (2022). Differential impacts of dual identities on Taiwanese affective preferences. Society for Affective Science 2022 Virtual Conference.

Chen, Y.-C. C., Huang, Y.-W. Y., Kuo, Y.-S. A., Chou, F.-C. B., Hsiao, P.-Y. A., Lin, C. R., Pan, H.-J. S., & Chen, P.-H. A. (2022). Large-scale stressors facilitate divergent interpretations toward ambiguous naturalistic contents. Society for Affective Science 2022 Virtual Conference.

Chou, F.-C. B., Pan, H.-J. S., Huang, Y.-W. Y., Kuo, Y.-S. A., Chen, Y.-C. C., Hsiao, P.-Y. A., Lin, C. R., & Chen, P.-H. A. (2022). Collective synchronization of emotional expressions under a large-scale social stressor. Society for Affective Science 2022 Virtual Conference.

Kuo, Y.-S. A., Huang, Y.-W. Y., Chou, F.-C. B., Chen, Y.-C. C., Hsiao, P.-Y. A., Lin, C. R., Pan, H.-J. S., & Chen, P.-H. A. (2022). Social isolation enhances the effect of fantasy on appraising affective experiences. Society for Affective Science 2022 Virtual Conference.

Hsiao, P.-Y. A., Chou, F.-C. B., Lin, Y.-J., Jolly, E., Chang, L.J., & Chen, P.-H. A. (2022). Intersubject representational similarity analysis reveals individual variations in affective experience transcending cultural differences. Society for Affective Science 2022 Virtual Conference.

Chen, P.-H. A., Lin, C. R., & Chou, F.-C. B. (2022). The paradox of being unique in an interdependent culture. Society for Affective Science 2022 Virtual Conference.

Chen, P.-H. A., Lin, C. R., & Chou, F.-C. B. (2022). The paradox of being unique in an interdependent culture. Advances in Cultural Psychology Preconference, Society for Personality and Social Psychology 2022 Annual Meeting.

Chen, P.-H. A., Lin, Y.-J., Jolly, E., Chen, Y.-C., & Chang, L.J. (2021). Toward an understanding of face rule during real-time social interaction. Social & Affective Neuroscience Society 2021 Virtual Conference.

Chou, F.-C. B., & Chen, P.-H. A. (2021). Self-awareness impacts individual variations in perceiving appetitive cues. Cognitive Neuroscience Society 2021 Virtual Conference.

Chen, Y.-C. C., Chou, F.-C. B., & Chen, P.-H. A. (2020). Inhibitory training impacts the transition probability across multiple temptation-related states. Taiwanese Psychological Association Annual Meeting, Virtual Conference.

TEACHING

Seminar in Computational Social Neuroscience, National Taiwan University
Seminar in Computational Social Psychology, National Taiwan University
Advanced Cognitive Neuroscience, National Taiwan University
Cognitive Science, National Taiwan University
General Psychology, National Taiwan University
Personality Psychology, National Taiwan University
Seminar in Social and Cultural Neuroscience, National Taiwan University
Advanced Social and Personality Psychology, National Taiwan University
Social Psychology, Dartmouth College
Laboratory in Psychological Science, Dartmouth College
Introduction to Neuroscience, Dartmouth College
Human Brain Imaging, Dartmouth College

CLINICAL EXPERIENCE

Clinical Psychologist of Higher Examination, The Examination Yuan, Taiwan	2011
Intern Clinical Psychologist, Department of Psychiatry, NTU Hospital, Taiwan	2008
Intern Clinical Psychologist, Department of Neurology, NTU Hospital, Taiwan	2007
Intern Clinical Psychologist, Department of Neurosurgery, NTU Hospital, Taiwan	2007

SOFTWARE/PROGRAMMING SKILLS

Machine-learning and Computational modeling (Scikit-learn, Numpy, Scipy), Facial expression analysis (Py-feat, OpenFace), Neuroimaging (Python: Nipype, Nilearn, Nltools, fmriprep), Interactive Web application (Javascript, Meteor)

AD-HOC REVIEWING (Papers, Grants, Proposals)

Asian Journal of Social Psychology; Biological Psychology; Biological Psychiatry: Cognitive Neuroscience and Neuroimaging; Cognitive, Affective, and Behavioral Neuroscience; Frontiers in Behavioral Neuroscience; Frontiers in Human Neuroscience; Israel Science Foundation (ISF); Neuroimage; Journal of Accounting Research; Journal of Cognitive Neuroscience; Journal of

Neuroscience; Scientific Reports; Social Cognitive and Affective Neuroscience; Social and Personality Psychology Compass; The Quantitative Methods for Psychology

SELECTED MEDIA COVERAGE

National Taiwan University Newsletter “Computational social neuroscience”	Jun 2021
National Taiwan University College of Science Newsletter “Socially transmitted placebo effect”	Jan 2021
Parsing Science. “Transmitting placebo effects”	Jan 2020
Medscape. “Bringing humanity back is the greatest gift AI can give”	Jan 2020
NIH Research Matters. “Provider expectations may affect treatment outcomes”	Nov 2019
Elemental. “The power of bedside manner on pain”	Oct 2019
NPR. “The placebo effect works and you can catch it from your doctor”	Oct 2019
NatureAsia. “Psychology: Doctors’ beliefs influence patients’ pain”	Oct 2019
Science Daily. “Your healthcare provider’s expectations on whether a treatment works may impact its effectiveness”	Oct 2019
U.S. News. “How to avoid weight regain, according to science”	Nov 2016
New York Magazine. “Successful dieting depends on your brain, according to a new study”	Oct 2016
Science Daily. “Dieting success may be hardwired into the brain”	Oct 2016

PROFESSIONAL AFFILIATIONS

Society for Personality and Social Psychology; Social and Affective Neuroscience Society; Society for Affective Science; Association for Psychological Science; Taiwanese Psychological Association; Taiwanese Society of Cognitive Neuroscience