

# Feng-Chun (Ben) Chou

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🌐 Ben-FCC

🔍 Google Scholar

## ABOUT ME

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I am currently working at CHENLab at National Taiwan University. My research focuses on Interacting minds, social network analysis, computational social neuroscience, machine learning & non-verbal behaviors.. I am studying for a Ph.D. in Social Psychology from National Taiwan University, where I also completed my M.Sc. in Social Psychology and B.Sc. in Physics.

## EDUCATION

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**National Taiwan University, Taipei, Taiwan** 2023 - present

Ph.D. in Social Psychology

**National Taiwan University, Taipei, Taiwan** 2022 - 2023

M.Sc. in Social Psychology

**National Taiwan University, Taipei, Taiwan** 2017 - 2022

B.Sc. in Physics

## RESEARCH INTERESTS

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Interacting Minds, Social Network Analysis, Computational Social Neuroscience, Machine Learning & Nonverbal Behaviors.

## PUBLICATIONS

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*\* indicates co-first authorship.*

Hsiao, P.-Y. A., Kim, M. J., **Chou, F.-C. B.**, & Chen, P.-H. A. (2024). Intersubject representational similarity analysis uncovers the impact of state anxiety on brain activation patterns in the human extrastriate cortex. *Brain Imaging and Behavior*, 18(2), 1-9. <https://doi.org/10.1007/s11682-024-00854-1>

## MANUSCRIPTS UNDER REVIEW

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**Chou, F.-C. B.**,\* Chen, Y.-C. C.,\* Kuo, Y.-S. A., Hsiao, P.-Y. A., Lin, C. R., Huang, Y.-W. Y., Peng, W.-L., Pan, H.-J. S., & Chen, P.-H. A. (Under review). Facial insights: An exploration of similarity in spontaneous facial behaviors during pandemic lockdown. *PsyArXiv*.

<https://doi.org/10.31234/osf.io/46dvn>

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*. <https://doi.org/10.31234/osf.io/64bjc>

## INVITED TALKS

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**Blitz Topic**, *Social & Neuroscience Society 2024 Annual Conference*, Toronto, Canada

**Symposium Talk**, *Taiwanese Society of Cognitive Neuroscience 2023 Annual Conference*, Taoyuan, Taiwan

**Symposium Talk**, *12<sup>th</sup> Conference for Chinese Psychologists*, Taipei, Taiwan

**Symposium Talk**, *Taiwanese Psychological Association 2023 Annual Conference*, Hsinchu, Taiwan

## CONFERENCE PRESENTATIONS

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**Chou, F.-C. B.**, Kuo, Y.-S. A., Chen, Y.-C. C., Chang, C.-Y. E., & Chen, P.-H. A. (2024). From Opposing Views to Aligned Impressions: Shared Experiences Matter. *Social & Neuroscience Society 2024 Annual Conference*, Toronto, Canada

**Chou, F.-C. B.**, Chiu, T.-A. P., Hsiao, P.-Y. A., Chang, C.-Y. E., & Chen, P.-H. A. (2024). Unraveling the neural representations of preference with a naturalistic neuroimaging approach. *Cognitive Neuroscience Society 2024 Annual meeting*, Toronto, Canada.

Chang, C.-Y. E., **Chou, F.-C. B.**, & Chen, P.-H. A. (2023). Exploring cross-domain text semantic similarity using large language models. *Taiwanese Psychological Association 2023 Annual Conference*, Hsinchu, Taiwan.

Chen, P.-H. A., Kuo, Y.-S. A., & **Chou, F.-C. B.** (2023). Social isolation strengthens the association between intersubject similarity in fantasy and similarity in affective appraisal. *The 15th Biennial Conference of the Asian Association of Social Psychology*, Hong Kong.

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*.

**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*.

**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*.

- 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*.
- 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*.
- 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*.
- 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*.

## TECHNICAL SKILLS

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**Programming:** Machine-learning & Deep-learning (Scikit-learn, Pytorch, TensorFlow), Neuroimaging (Nltools, Nilearn, BrainIAK, fMRIPrep), Non-verbal behavior analysis (Py-Feat, OpenFace, OpenPose), Computational modeling (Numpy, Pandas, R, pymer4, Seaborn, SciPy, MATLAB), Web & Server programming (JavaScript, Meteor, Node.js, BASH, Socket, SQL), Network analysis (NetworkX), Neurophysiological Signal Processing (NeuroKit), Java, C, C++

**Data Analysis:** RSA (Representational Similarity Analysis), IS-RSA (Intersubject Representational Similarity Analysis), SNA (Social Network Analysis), ML & DL (Machine Learning & Deep Learning), TPA (Transition Probability Analysis), ANOVA, GLM, HMM (Hidden Markov Model), Information theory, Linear algebra, Group theory