

Yen-Sheng Chiang

Institute of Sociology

Academia Sinica

Taiwan, R.O.C

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EDUCATION

Ph.D. in Sociology, University of Washington (2008).

M.A. in Sociology with Honor of Best Thesis, University of Washington (2004).

B.A. in Economics, National Taiwan University (1996).

ACADEMIC POSITIONS

- 2021 – present Research Fellow & Deputy Director
Institute of Sociology, Academia Sinica, Taiwan
- 2025 – 2028 Honorary Research Fellow
Center for Computational Social Science, Kobe University, Japan
- 2017 – 2021 Associate Research Fellow
Institute of Sociology, Academia Sinica, Taiwan
- 2014 – 2017 Assistant Professor
Department of Sociology, The Chinese University of Hong Kong,
HKSAR, China
- 2013 – 2013 Assistant Research Fellow
Institute of Sociology, Academia Sinica, Taiwan
- 2009 – 2012 Assistant Professor
Department of Sociology, University of California, Irvine, U.S.A
- 2009 summer Visiting Postdoc Researcher
Hokkaido University, Japan
- 2008 – 2009 Postdoc Researcher
Max Planck Institute for Human Development, Berlin, Germany

RESEARCH AREAS

Social Networks

- Social cognitive networks
- Criminal networks
- Social capital and social support

Social Psychology

- Collective decision-making
- Social diffusion
- Emergence of cooperation and altruism
- Perception of fairness and inequality

Methodology

- Computational modeling
- Online experiments
- Neuroimaging methods

PUBLICATIONS (REFERRED JOURNAL PAPERS)

- Chiang, Y-S.**, Nakamaru, M., and Shen, C-Y. 2026. "Link dissolution outperforms link formation in promoting cooperation in social dilemmas." *Social Science Research*, accepted.
- Lee, H-W., Chang, Y-P., and **Chiang, Y-S.** 2025. "A theoretical analysis of how multiple leadership and flattened status structures affect cooperation in task groups" *Journal of Artificial Society and Social Simulation*, 28(3), 4.
- Chiang, Y-S.**, Cho, H-C., and Chang, C-J. 2024. "Adaptive networks driven by partner choice can facilitate coordination among humans in the graph coloring game: Evidence from a network experiment" *Collective Intelligence*, 3(3), 1-14.
- Chung, P-C., **Chiang, Y-S.**, Liu, Y-C., Chuang, Y-F., Hsu, H-H., Chan, T-C. 2024. "Association of Well-Being in Middle-Aged and Older Adults With Enhanced Personal Health and Social Support: A Nationally Representative Cohort Study" *Journal of Primary Care & Community Health*, 15, 2150131924127.
- 卓恒瑾、王麗雲、江彥生. 2024. 「臺灣青少年未達成的教育規劃對其心理健康及自尊影響之縱貫性研究」 *教育與心理研究期刊*, 43, 115-152.
- Chiang, Y-S.**, Chang, P-Y., and Shia, B-C. 2024. "Estimating the command hierarchy of a drug trafficking group based on criminals' telecommunication network" *Journal of Computational Social Science*, 7(2), 2107-2120.
- Chiang, Y-S.**, Chang, Y-C., and Weng, W. 2024. "To blend in or hide out? A network analysis on maritime criminal co-voyages in Taiwan" *Journal of Quantitative Criminology*, 40, 373-393.
- Liao, K-H., **Chiang, Y-S.**, and Chan, J. 2023. "The Levee Dilemma Game: A Game Experiment on Flood Management Decision-Making" *International Journal of Disaster Risk Reduction*, 90, 103362.
- 譚耀、彭泰權、江彥生. 2022. 「候選人臉書好友網絡的面貌、行程與結果：以2016年區域立委選舉為例的社群網絡分析」 *資訊社會研究*, 43115-152.
- Ryan P. Badman, Ace X. Wang, Martin Skrodzki, Hengchin Cho, David Aguilar-Lleyda, Naoko Shiono, Seng Bum Michael Yoo, **Yen-Sheng Chiang**, and Rei Akaishi., 2022. "Trust in institutions, not in political leaders, determines compliance in Covid-19 prevention measures within societies across the globe" *Behavioral Sciences*, 12(6), 170.
- Chiang, Y-S., 2021. "Indirect reciprocity for mitigating intergroup hostility: A vignette experiment and an agent-based model on intergroup relations between mainland Chinese and Taiwanese" *Journal of Conflict Resolution*, 65, 403-426.
Honorable mention of the best paper award of the American Sociological Association
- Chiang, Y-S.**, Cheng, Y-W., Chuang, W-C., Wu, C-I, Wu, C-T. 2020. "Triadic balance in the brain: Seeking brain evidence for Heider's structural balance theory" *Social*

Networks, 63, 80-90.

Winner of the best paper award of the American Sociological Association

- Chiang, Y-S.**, Wang, L-T. 2020. “Does the β -measure make empirical sense? A vignette experiment on humans’ judgment of social dominance” *Social Networks*, 62, 43-49.
- Chiang, Y-S.**, Tao, L. 2019. “Structural balance across the strait: A behavioral experiment on the transition of positive and negative intergroup relationships in mainland China and Taiwan.” *Social Networks*, 56, 1-9.
- Chen, J., Tam, T., **Chiang, Y-S.** 2019. “The rise of merit-based inequality acceptance after exposure to competition” *Social Indicators Research*, 144, 707-728.
- Chiang, Y-S.**, Chen, J. 2019. “Does inequality cause a difference in altruism between the rich and the poor? Evidence from a laboratory experiment.” *Social Indicators Research*, 144, 73-95.
- Chiang, Y-S.**, Hsu, Y-F. 2019. “The asymmetry of altruistic giving when givers outnumber recipients and vice versa.” *Journal of Economic Psychology*, 73, 152-160.
- Chiang, Y-S.**, Hsu, Y-F. 2017. “Direct election of group decision makers can facilitate the emergence of cooperation.” *Group Decision & Negotiation*, 26, 197-213.
- Yang, C.Y., Phoa, F.H.K., **Chiang, Y-S.** 2017. “A statistical and modeling on social transitivity behavior.” *Asian Journal of Humanities and Social Studies*, 5, 2.
- Phoa, F.H.K., Weng, P.C.Y., **Chiang, Y-S.** 2017. “A mathematical model on the propagation of node attributes on a social network.” *IEEE Transactions on Engineering Sciences*, 107-114.
- 江彥生、陳昇瑋. 2016. 「簡介計算社會學：一個結合電腦與數位科技的新興社會學研究」，*台灣社會學*, 32, 171-201.
- Stovel, K., **Chiang, Y-S.** 2016. “Commitments and contests: How preferential association produces equity.” *American Behavioral Scientists*, 60, 1194-1214.
- Chiang, Y-S. 2015 “Good Samaritans in networks: An experiment on how networks influence egalitarian sharing and the evolution of inequality”. *PLoS One*, 10(6), e0128777.
- Chiang, Y-S. 2015 “Inequality measures perform differently in global and local assessments: An exploratory computational experiment”. *Physica A*, 437, 1-11.
- Chiang, Y-S.**, Wu, C-I. 2015 “Social influence and the adaptation of parochial altruism” *Evolution and Human Behavior*, 36: 430-437.
- Lee, E., Luo, J-K., Chen, W-M., Chen, Y-C., Lin, S-D., **Chiang, Y-S.**, Chen, K-D. 2014 “Fairness-aware loan recommendation for microfinance services.” *Proceedings of the 7th ASE International Conference on Social Computing*

- Chiang, Y-S. 2013 “Cooperation could evolve in complex networks when activated conditionally on network characteristics.” *Journal of Artificial Societies and Social Simulation*, 16: 6.
- Chiang, Y-S. 2013 “Book review on ‘Complex Adaptive System’ by Miller and Page.” *Journal of Mathematical Sociology*, 37, 59-60.
- Chiang, Y-S. 2011 “Judgment of Distributional Inequality in Networks.” *Social Networks* 33: 342-349.
- Chiang, Y-S.**, Takahashi, N. 2011 “Network Homophily and the Evolution of the Pay-it-Forward Reciprocity.” *PLoS One* 6: e29188.
- Chiang, Y-S. 2010 “Self-Interested Partner Selection can Lead to the Emergence of Fairness.” *Evolution and Human Behavior* 31: 265-270.
- Chiang, Y-S. 2008 “A Path towards Fairness: Preferential Association and the Evolution of Strategies in the Ultimatum Game.” *Rationality and Society* 20:173-201.
Winner of the best graduate paper of the American Sociological Association
- Chiang, Y-S. 2007 “Birds of Moderately Different Feather: Bandwagon Dynamics and the Threshold Heterogeneity of Network Neighbors.” *Journal of Mathematical Sociology* 31: 47-69.
Winner of the best graduate paper of the American Sociological Association
- Chiang, Y-S. 2007 “The Evolution of Fairness in the Ultimatum Game.” *Journal of Mathematical Sociology* 31: 175-186

OTHER PUBLICATIONS

- 江彥生 2026. 「夠準就好，解釋不重要？論 AI 方法對社會科學典範的衝擊」，收錄於《數位社會的智慧治理》，李建良主編，元照出版社
- 江彥生 2025. 「擘劃一個以社會科學為核心導向的人工智慧研究願景」《人文與社會科學簡訊》，26 卷 4 期，國家科學及技術委員會
- 江彥生 2023. 「腦內與腦外網絡的連結：社會網絡神經科學」《人文與社會科學簡訊》，23 卷 3 期，國家科學及技術委員會
- 江彥生 2021. 「英雄氣短，小卒氣長？淺談助人行為的群眾效應」《中央研究院漫步科研專欄》，2021. 09.23
- 傅仰止、江彥生 2020. 「新冠疫情的社會網絡聯想：接觸、距離、叢聚」《台灣社會學刊》，67, 227-237.
- Kitts, J., **Chiang, Y-S.** 2008 “Norms”, invited chapter in *Encyclopedia of Social Problems*. Sage Publications.

MANUSCRIPTS IN PROGRESS

- Chiang, Y-S.**, Shen, C-Y., and Chen, Y-C. “Let the Machine Decipher Sports: A Deep Learning Model for Predicting and Explaining Volleyball Games.” *Under Review*.

Chang, J-J., Chen, Y-C., and **Chiang, Y-S.** “Whole-Brain Functional Connectivity Reveals Role-Based Neural Distinctiveness in Team Sports.” *In Preparation.*

RESEARCH HONORS, AWARDS, AND CERTIFICATIONS

中央研究院王世杰紀念研究講座 (2025)

Outstanding Research Award (傑出研究獎), National Science and Technology Council, Taiwan (2024)

Best Paper Award, American Sociological Association, section of ‘Evolution, Biology and Society’ (2021)

Honorable Mention of the Best Paper Award, American Sociological Association, section of ‘Rationality and Society’ (2021)

Outstanding Research Award (傑出研究獎), The Ministry of Science and Technology, Taiwan (2019)

Social Science Assistant Professor Research Award, University of California, Irvine (2010)

Overseas Postdoc Fellowship, Japan Society for the Promotion of Science (2009)

Best Graduate Paper, American Sociological Association, section of Rationality and Society (2007).

Best Graduate Paper, American Sociological Association, section of Mathematical Sociology (2007)

Certification in Social Statistics, Center for the Statistics and Social Sciences (CSSS), University of Washington (2006)

Outstanding Performance for the Masters of Arts Degrees, Department of Sociology, University of Washington (2005)

Selective Participants, the Summer Workshop of Computational Social Science, Santa Fe Institute (2005)

Best Paper Award, the 3rd US-Japan Joint Conference on Mathematical Sociology (2004)

RESEARCH GRANTS (SELECTED)

National Science and Technology Council, Taiwan

- 2025/01/01 – 2029/12/31
“Taiwan Social Change Survey: Year 1~5 of Round 9” (NT\$15,000,000 per year)
- 2024/08/01 – 2027/07/31
“Illicit connecting: toward a better understanding of how criminal networks are formed and how law enforcement agents can disrupt” (NT\$2,768,000)
- 2022/08/01 – 2024/12/31

“How is status ranked in social dominance? An integrated study of socio-metrics, vignette experiment and neuroimaging study” (NT\$2,418,000)

Academia Sinica, Taiwan

- 2026/01/01 – 2028/12/31
“Leveraging AI to identify and combat scam-based money laundering” (NT\$10,000,000)
- 2019/07/01 – 2021/06/30
“Disclosing and disrupting the dark networks” (NT\$1,500,000)

The Chinese University of Hong Kong, HKSAR, China

- 2014 – 2015 Direct Grant (HK\$ 101,902)

National Science Foundation, U.S.A.,

- 2007 Dissertation Improvement Grant (US\$7,500)

TEACHING EXPERIENCES

Academia Sinica

2023 Spring

- “Group Decision Making”, humanities core courses

2020 Fall

- “Collective behavior and social networks: Experimental approach”

2016 summer

- “Network Analysis”, summer programs on quantitative analysis

Institute of Science Tokyo

2020 winter

- “The Mystery of Collectivity”, graduate-level intensive course

Sun Yat-Sen University

2016 summer

- “Network Modeling”, summer programs on computational social sciences

The Chinese University of Hong Kong

2014 - 2017

- “Introduction to Social Psychology” (UG)
- “Social Networks and Social Capital” (UG)
- “Taiwan Society” (UG)

University of California, Irvine

2009 - 2012

- “Sociology of Generosity” (UG)
- “Social Statistics I” (G)
- “Social Statistics III” (G)
- “Introduction to Social Networks” (G)

VISITS AND TALKS

North America—UCLA, University of South Carolina, Yale University

Europe—Utrecht University

Asia—Hokkaido University, Keio University, Kyushu University, Nanyang Technological University, Singapore Management University, Tohoku University, Tokyo Institute of Technology, University of Tokyo, Zhejiang University

PROFESSIONAL ACTIVITIES

Associate Editor: *Journal of Computational Social Science* (2019- present)

Review Editor: *Frontiers Sociology* (2015 - present)

Editorial Board: *Taiwanese Sociology* (2017-2019)

Ad Hoc Reviewers for:

General Science—

Proceedings of the National Academy of Sciences of the United States of America

Sociology—

American Journal of Sociology, American Sociological Review, Journal of Mathematical Sociology, Rationality and Society, Social Forces, Social Indicators Research, Social Psychology Quarterly, Social Networks, Taiwanese Sociology

Economics—

Journal of Economic Behavior and Organization, Journal of Economic Interaction and Coordination, Theory and Decision

Mathematical Behavioral and Computational Social Science—

Computational and Mathematical Organization Theory, Journal of Advanced Statistics, Journal of Artificial Societies and Social Simulation, Network Science, Physica A, PLoS One, Social Network Analysis and Mining

Political Science—

American Political Science Review, Journal of Conflict Resolution

Psychology—

Adaptive Behavior, Asian Journal of Social Psychology, Journal of Mathematical Psychology, Evolution and Human Behavior, Frontiers Psychology, Personality and Social Psychology Bulletin

Others—

National Science Foundation (U.S.A)

Research Grants Council (Hong Kong)

Sage publisher

Springer publisher

SERVICE EXPERIENCES

Academia Sinica:

- Central Academic Advisory Council
- Deputy director of the Institute of Sociology

The Chinese University of Hong Kong

- Undergraduate Committee and Graduate Committee of the Department of Sociology
- Advisory Committee for Graduate Students, Department of Sociology
 - Chen Chen (Ph.D.), currently Associate Professor at Zhejiang University of Technology

University of California, Irvine

- Undergraduate Committee of the Department of Sociology,
- Advisory Committee for Graduate Students, Department of Sociology
 - Emma Spiro (Ph.D.), currently Associate Professor at the University of Washington
 - Zack Almquist (MA), currently Associate Professor at the University of Washington
 - Yader Lanuza (MA), currently Assistant Professor at the University of California, Santa Barbara