

# HSIANG-KE CHAO

## Curriculum Vitae

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Department of Economics  
National Tsing Hua University  
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### EDUCATION

2002 Ph.D. in Economics, University of Amsterdam, the Netherlands, 2002.

1996-1997 Ph.D. Student, Department of Economics, University of California, Davis, USA.

1996 M.A. in Economics, National Chengchi University, Taiwan.

1991 B.A. in Economics, National Chengchi University, Taiwan.

### ACADEMIC AND PROFESSIONAL POSTS

#### *Current*

2014-present Professor, Department of Economics, National Tsing Hua University  
(Associate Professor, 2007-2014; Assistant Professor, 2002-2007)

2021-present Adjunct Professor, Interdisciplinary Program of Humanities and Social Sciences, National Tsing Hua University

2022-present Director, Master Program of Public Management and Policy, College of Technology Management, National Tsing Hua University

2021-present Director, [Center for Economic Research on Globalization](#), National Tsing Hua University

2023-present Advisory Board, *History of Political Economy*

2022-present Director of Board, The Taiwan Association for Logic, Methodology and Philosophy of Science and Technology

2021-present *Journal of the History of Economic Thought* Book Review Advisory Board.

*Past*

2023 Visiting Scholar, Institute of Modern History, Academia Sinica.

2015-2018 *The Taiwanese Journal for the Studies of Science, Technology and Medicine*  
Associate Editor (2017-2018), Member of Editorial Board

2014-2015 Research Fellow and Senior Fulbright Scholar, Center for the History of  
Political Economy, Duke University.

2008 Visiting Scholar, the Shorenstein Asia-Pacific Research Center, Stanford  
University.

2007 Visiting Scholar, Social Science Research Center, National Science Council of  
Taiwan, June-September.

2003-2004 Adjunct Assistant Professor of History of Economic Thought, Catholic Fu Jen  
University.

2000-2001 Visiting Scholar, Department of Economics, University of California, Davis.

2000 Research Scholar, Department of Economic History, and Visiting Scholar,  
Centre for Philosophy of Natural and Social Sciences, London School of  
Economics.

1997-2002 AiO (Ph.D. Research Assistant), University of Amsterdam and the Tinbergen  
Institute Amsterdam.

**FELLOWSHIPS AND AWARDS**

Research Excellence Award, Department of Economics, National Tsing Hua University, 2023.

Teaching Excellence Award, College of Science and Technology Management, National Tsing  
Hua University, 2021.

Research Fellowship, Center for the History of Political Economy, Duke University, 2014-  
2015.

Senior Fulbright Research Fellowship, 2014-2015.

Residential Fellowship, Research Center for Humanities and Social Sciences, National Tsing  
Hua University, Spring 2014.

**MAJOR RESEARCH GRANTS**

Chiang Ching-Kuo Foundation International Collaborative Research Grant

*Postwar Taiwan Revisited: State Making, Leadership Perceptions, and the Conundrum  
of the Trans-Pacific Alliance*, 2021-2023 (Co PI: Hsiao-ting Lin et al.).

*Transition and Transformation: The United States and the Making of Postwar Taiwan's Economic, Military and Political Security, 1949-1970, 2016-2019* (Co PI: Hsiao-ting Lin and Hsien-chun Wang).

National Tsing Hua University Multidisciplinary Program: *Exploring Philosophy of Science in Practice*, 2020-2021.

Taiwan Ministry of Science and Technology Renwen Xingyuan Research Grant for Monograph Project: *Inference to the Best Model*, 2019-2024.

National Tsing Hua University Booster Program: *Conventions of Visual Representation and Transmission of Scientific and Technological Knowledge: Historical and Philosophical Perspectives*, 2014-2017 (Co PI: Hsien-chun Wang et al.).

British Academy-Taiwan Ministry of Science and Technology Joint Project: *Economics and the Value-Free Ideal*, 2015-2016 (Co PI: Julian Reiss).

Taiwan Ministry of Science and Technology (formerly National Science Council) Research Grant for the Project for Excellent Young Research Investigator (philosophy)

*Understanding Public Policy: A Study in the Philosophy of Science* 2013-2016.

*The Philosophy of Measurement: Theory and Practice* 2011-2013.

## RESEARCH INTERESTS

History and philosophy of economics, philosophy of science, history of modern China and Taiwan, STS.

## PUBLICATIONS

### Books

Chao, Hsiang-Ke and Julian Reiss (Eds.) (2017). *Philosophy of Science in Practice: Nancy Cartwright and the Nature of Scientific Reasoning*, Cham, Switzerland: Springer.

Chao, Hsiang-Ke, Szu-ting Chen, and Roberta L. Millstein (Eds.) (2013). *Mechanism and Causality in Biology and Economics*, Dordrecht: Springer.

Chao, Hsiang-Ke (2009). *Representation and Structure in Economics: The Methodology of Econometric Models of the Consumption Function*, London: Routledge.

### Special Issues

Chao, Hsiang-Ke and Harro Maas (Eds.) (2020). Thinking and Acting with Diagrams, *East Asian Science, Technology and Society: An International Journal* 14(2).

Boumans, Marcel and Hsiang-Ke Chao (Eds.) (2018). Symposium on Mary Morgan: Curiosity, Imagination, and Surprise, *Research in the History of Economic Thought and Methodology* 36B.

## Articles

Chao, Hsiang-Ke and Hsiao-ting Lin (2024/forthcoming). The Political Economy of Lauchlin Currie's Land Tax Policy in Wartime China. *History of Political Economy*.

Chao, Hsiang-Ke (2023). Three Kinds of the Lotka-Volterra Model Transfer from Biology to Economics. *Synthese* 202(104), pp. 1-22.

Chao, Hsiang-Ke and Yi-Hsuan Kao (2023). How to Stratify Scientific Evidence: Accessing the Hierarchy of Evidence in Evidence-Based Medicine. *EurAmerica* 53(1), pp. 59-98. (in Chinese)

Chao, Hsiang-Ke (2022). Two Types of Travelers in the History of the Transmission of Western Economic Knowledge in Late Qing and Early Republican China. *History of Political Economy* 54(3), pp. 435-456.

Chao, Hsiang-Ke (2022). It Takes a Model to Beat a Model: A Review of Peter Galbács' *The Friedman-Lucas Transition in Macroeconomics: A Structuralist Approach*. *Journal of Economic Methodology* 29(3), pp. 252-256.

Chao, Hsiang-Ke (2022). Representation. In Conrad Heilmann and Julian Reiss (Eds.), *The Routledge Handbook of Philosophy of Economics*, New York: Routledge, pp. 186-197.

Chao, Hsiang-Ke (2021). Chiang Ching-kuo's Conversations with Nobel Laureates in Economics and His Conception of Economic Freedom. *The Archives of President Chiang Ching-kuo, Academia Historica*. (in Chinese)  
<https://presidentialcck.drnh.gov.tw/index.php?act=Archive/article/PATA00032>

Lin, Hsiao-ting, Hsiang-Ke Chao, and Hsien-chun Wang (2020). US-Taiwan Relations during the Cold War: The "Mainland Counteroffensive" Reassessed. *Rivista Italiana di Storia Internazionale* 3(1), pp. 3-40.

Chao, Hsiang-Ke (2020). Representation and Idealization: Diagrammatic Models in the Early Studies of the Spatial Structure of Periodic Markets in Rural China. *East Asian Science, Technology and Society: An International Journal* 14(2), pp. 253-277.

Chao, Hsiang-Ke and Harro Maas (2020). Thinking and Acting with Diagrams, *East Asian Science, Technology and Society: An International Journal* 14(2), pp. 191-197.

Chao, Hsiang-Ke (2019). Inference to the Best Model of the Consumption Function. *History of Political Economy* 51(3), pp. 493-513.

Chao, Hsiang-Ke (2019). Economic Theories and Models, *The Chinese Encyclopaedia of Philosophy*. (in Chinese) [http://mephilosophy.ccu.edu.tw/entry.php?entry\\_name=%E7%BC%92%E7%BC%92%E4%BC%A0%E5%8A%A1](http://mephilosophy.ccu.edu.tw/entry.php?entry_name=%E7%BC%92%E7%BC%92%E4%BC%A0%E5%8A%A1)

Chao, Hsiang-Ke (2018). Shaping Space through Diagrams: The Case of the History of Location Theory. *Research in the History of Economic Thought and Methodology* 36B, pp. 59-72.

Chao, Hsiang-Ke and Harro Maas (2017). Engines of Discovery: Jevons and Marshall on the Methods of Graphs and Diagrams. *Research in the History of Economic Thought and Methodology* 35A, pp. 35-61.

Chao, Hsiang-Ke and David Teira (2017). Model-Based Knowledge and Credible Policy Analysis. In Hsiang-Ke Chao and Julian Reiss (eds.) *Philosophy of Science in Practice: Nancy Cartwright and the Nature of Scientific Reasoning*, Cham, Switzerland: Springer, pp. 181-197.

Chao, Hsiang-Ke and Hsien-I Chiu (2017). Confirmation of Climate Models. *Euramerica* 47(18), pp. 107-142. (in Chinese)

Chao, Hsiang-Ke (2014). Models and Credibility. *Philosophy of the Social Sciences* 44(5), pp. 588-605.

Chao, Hsiang-Ke (2014). Kuhn and the Growth of Economic Knowledge. *Taiwanese Journal for Studies of Science, Technology and Medicine* 18, pp. 241-280. (in Chinese)

Chao, Hsiang-Ke, Szu-ting Chen, and Roberta L. Millstein (2013). Towards the Methodological Turn in the Philosophy of Science. In Hsiang-Ke Chao, Szu-Ting Chen and Roberta L. Millstein (eds.) *Mechanism and Causality in Biology and Economics*, Dordrecht: Springer, pp. 1-16.

Chao, Hsiang-Ke and Szu-ting Chen (2013). Explaining the Explanations of 100 Million Missing Women. In Hsiang-Ke Chao, Szu-Ting Chen and Roberta L. Millstein (eds.) *Mechanism and Causality in Biology and Economics*, Dordrecht: Springer, pp. 225-242.

Lin, Hsiao-ting and Hsiang-Ke Chao (2013). An Analysis of the 1962 Taiwan Strait Crisis. *Contemporary China History Studies* 20(4), pp. 63-75. (in Chinese)

Chao, Hsiang-Ke and Hsiao-ting Lin (2011). Beyond the Carrot and Stick: The Political Economy of the U.S. Military Aids to China, 1945-1951. *Journal of Modern Chinese History* 5(2), pp. 199-216.

Chao, Hsiang-Ke and Chao-Hsi Huang (2011). Ta-Chung Liu's Exploratory Econometrics. *History of Political Economy* 43(Supplement), pp. 140-165.

Chao, Hsiang-Ke (2009). Towards and Beyond Lakatos: An Introduction to the Philosophy of Economics. *Taiwanese Journal for Studies of Science, Technology and Medicine* 9, pp. 19-55. (in Chinese)

Chao, Hsiang-Ke (2007). A Structure of the Consumption Function. *Journal of Economic Methodology* 14(2), pp. 227-248.

Chao, Hsiang-Ke (2007). Structure. In Marcel Boumans (Ed.) *Measurement in Economics: A Handbook*, Amsterdam: Elsevier, pp. 271-294.

Chao, Hsiang-Ke (2005). A Misconception of the Semantic Conception of Econometrics? *Journal of Economic Methodology* 12(1), pp. 125-135.

Chao, Hsiang-Ke (2003). Milton Friedman and the Emergence of the Permanent Income Hypothesis. *History of Political Economy* 35(1), pp. 77-104.

## PRESENTATIONS AT CONFERENCES AND WORKSHOPS

The Political Economy of Lauchlin Currie's Land Tax Policy in Wartime China, *HOPE Conference*, Duke University, Durham, USA, April 28-30, 2023.

Three Kinds of Lotka-Volterra Model Transfer to Economics. *Taiwan-Belgium Philosophy of Science Online Workshop*, September 12-13, 2022.

Traveling Models: Ingredients and Justifications. *Transdisciplinary Model Transfer and Its Interface* (virtual conference), March 12-14, 2021.

How to Stratify Scientific Evidence: Accessing the Hierarchy of Evidence in Evidence-Based Medicine. *Workshop on Practices and Processes of Science*, National Cheng Kung University, Tainan, Taiwan, September 19-20, 2020.

Journey to the West: Re-Interpreting the Transmission of Western Economics to China, 1880-1940. *The Road to Knowledge* (virtual conference), June 13-16, 2020.

Climate Change and Philosophy of Science. *The Forum on the Philosophy of Environmental Science*, Research Institute for the humanities and Social Sciences, Ministry of Science and Technology, Taiwan, December 20, 2019.

Shaping the Space through Diagrams: The Case of the History of Location Theory. *Curiosity, Imagination and Surprise: The Conference in Honor of Mary S. Morgan*, Utrecht University, September 1-2, 2017.

The History of Empirical Consumption Function, *History of Economics Society Annual Meeting*, Duke University, Durham, USA, June 17-20, 2016; *Conference on the History of Macroeconometric Modeling*, Utrecht University, April 6-7, 2017.

Visual Idealization. Reasoning and Representation with Diagrams: *Reasoning and Representation with Diagrams: History and Philosophy of Science and Technology in East and West*, National Tsing Hua University, Hsinchu, Taiwan, November 24-25, 2016.

Causes or Reasons? Explaining the History of Economic Science, *Workshop on Historiography of Science*, National Tsing Hua University, Hsinchu, Taiwan, October 14, 2016.

The Development of Economy and Economics in the Postwar Taiwan. *Postwar Taiwan Workshop*, National Tsing Hua University, Hsinchu, Taiwan, October 6, 2016.

Models and Objectivity. *DEMOCRASCI-the Value-Free Ideal in Economics Workshop*, Durham University, Durham, UK, December 3-4, 2015.

Reasoning into and with Diagrams: The Case of Economic Science. *Three Rivers Philosophy Conference 2015: Pictures and Proofs*, University of South Carolina, Columbia, South Carolina, USA, March 19-21, 2015.

Credible Public Policy Analysis, *The Tsing Hua Conference on Economics of Public Policy*, National Tsing Hua University, Hsinchu, Taiwan, June 9-10, 2014.

Models and Credibility, *The First Joint European Network for the Philosophy of the Social Sciences/Philosophy of Social Science Roundtable Conference*, Ca' Foscari University of Venice, Venice, Italy, September 3-4, 2013, and *The Third East Asian Philosophy of Science Conference*, National Tsing Hua University, Hsinchu, Taiwan, October 3-4, 2013.

The American Influence on the Making of Chinese Economic Policy during World War II, *The Eighth International Convention of Asia Scholars*, Macau, June 24-27, 2013.

Kuhn and the Growth of Economic Knowledge. *The Semi-centennial of Kuhn's Structure: From HPS to STS*. National Yang-Ming University, Taipei, Taiwan, August 9-10, 2012.

The Strategies for Discovering 100 Million Missing Women. *Taiwan Conference on the Philosophy of Biology and Economics: Mechanism and Causality*, National Tsing Hua University, Hsinchu, Taiwan, March 24-25, 2011.

Ta-Chung Liu's Exploratory. *HOPE Conference*, Duke University, USA, April 2010, and the invited lecture at *Taiwan Econometric Society Annual Meeting*, Taipei, Taiwan, October 2010.

Reflections on the Development of Philosophy of Science in Taiwan: An 'STS' Analysis. *The Third East Asian Science, Technology and Society Conference*, Taipei, Taiwan, June 2009.

Geometrical Models in Economics. *International Conference on Philosophy of Biology and Economics*, Chiayi, Taiwan, November 2008.

Structuring the New World. *Ian Hacking Workshop*, Hsinchu, Taiwan, November 2007.

Structure. *Measurement in Economics Workshop*, Amsterdam, the Netherlands, April 2006.

A Structure of the Consumption Function. *Naturalized Epistemology and Philosophy of Science*, Soochow University International Philosophy Conference, Taipei, Taiwan, June 2006.

Trygve Haavelmo and Measurement of Economic Structure. *History of Economics Society Annual Meeting*, Toronto, Canada, June 2004, and *International Network for Economic Method Meeting*, Amsterdam, the Netherlands, August 2004.

Milton Friedman and the Emergence of the Permanent Income Hypothesis. *European Conference of History of Economics*, Rotterdam, the Netherlands, April 2000.

New Classical Models as Measuring Devices. *History of Economics Society Annual Meeting*, Greensboro, North Carolina, USA, June 1999.

## OTHER PROFESSIONAL ACTIVITIES

Reviewer for (international journals, publishers, and funding agencies only)

*Computational Economics, Economics and Philosophy, Environmental Modelling and Software, History of Political Economy, Homo Oeconomicus, Journal of Econometrics, Journal of Economic Methodology, Journal of Economic Surveys, Journal of the History of Economic Thought, Oxford Economic Papers, Pacific Economic Review, Research in the History of Economic Thought and Methodology, Review of Quantitative Finance and Accounting, Synthese, Theoria*, Elsevier, Oxford University Press, Routledge, Springer, Social Sciences and Humanities Research Council of Canada.

Co-founder and co-organizer of annual *Postwar Taiwan Workshop*, 2016-present.

Panelist, *Philosophy of Science around the World*, Philosophy of Science Association, 2023.

Member of the Committee of the Craufurd Goodwin Best Article in the History of Economics Prize, History of Economics Society, 2019, 2020 (Chair).

Co-organizer of *Reasoning and Representation with Diagrams: History and Philosophy of Science and Technology in East and West*, National Tsing Hua University, Hsinchu, Taiwan, November 24-25, 2016.

Co-organizer of Workshop on *Historiography of Science*, National Tsing Hua University, Hsinchu, Taiwan, October 14, 2016.

Co-organizer of *The Tsing Hua Conference on the Economics of Public Policy*, National Tsing Hua University, Hsinchu, Taiwan, June 9-10, 2014.

Organizer of the session “Economics and STS” at the *Sixth Annual Meeting of the Taiwan Science, Technology and Society Association*, Chupei, Taiwan, March 22, 2014.

Co-organizer of *Evidence, Capacities, and Explanation: Conference on Cartwright’s Philosophy*, National Tsing Hua University, Hsinchu, Taiwan, September 12-14, 2012.

Organizer of *The Taiwan International Conference on Philosophy of Economics and Biology*, National Tsing Hua University, Hsinchu, Taiwan, March 24-26, 2011.

Co-organizer of The International Conference and Workshop on Philosophy of Biology and Economics: Models and Evolution, National Chung Cheng University, Chia Yi, Taiwan, November 21-23, 2008.