

Liang-Chih Chen

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Associate Professor

Graduate Institute of Building and Planning, National Taiwan University, Taiwan

Interest Fields

Regional Economic Development, Industrial Clusters, Innovation Systems, Technological Capability, Late Industrialization

Education

- 2007 *Doctor of Philosophy*, City and Regional Planning, University of California, Berkeley, U.S.A.
Dissertation Title: Industrial Upgrading of Newly Industrializing Countries: The Case of Machine Tool Industry in Taiwan
Committee: AnnaLee Saxenian (Chair), Karen Christensen, You-Tien Hsing, Karen Chapple
- 1993 *Master of Architecture*, Graduate Institute of Architecture, Tamkang University, Taiwan
- 1991 *Bachelor of Science*, Department of Urban Planning, National Cheng Kung University, Taiwan

Academic Employment

- 2015-present *Associate Professor*, Graduate Institute of Building and Planning, National Taiwan University, Taiwan
- 2009-2015 *Assistant Professor*, Graduate Institute of Building and Planning, National Taiwan University, Taiwan
- 2008-2009 *Assistant Professor*, Graduate Institute of Urban Planning, National Taipei University, Taiwan
- 2008 *Postdoctoral Research Fellow*, Social Science Research Center, National Science Council, Taiwan

Non-academic Employment

- 1999-2002 *Analyst*, Research Development and Evaluation Division, Town and Country Planning Bureau, Construction and Planning Administration, Ministry of Interior, Taiwan
- 1995-1999 *Planner*, Northern Region Planning Division, Town and Country Planning Bureau, Housing and Urban Development Department, Taiwan Provincial Government, Taiwan
- 1993-1995 *Second Lieutenant, Executive Officer* (Obligation Military Service), National Defense University, Chung Cheng Institute of Technology, Taiwan

Publications

Refereed Journal Articles

- Chen, Liang-Chih** and Meng-Ling Tien, 2017, “External Shocks, and the Construction and Functioning Mechanisms of Regional Economic Resilience”, *City and Planning*, 44(1):1-25. (in Chinese)
- Chen, Liang-Chih** and Shiuh-Shen Chien, 2017, “Industrial upgrading and interaction between the advanced small south and China: the case of Taiwan’s machine tool industry”, *Area Development and Policy*, 2(1): 91-107.
- Chen, Liang-Chih** and Han-Chang Liao, 2016, “The making and development of newly-emerged local industries: The case of farmers association wineries”, *Taiwanese Journal of Rural Studies*, 12: 41-63 . (in Chinese)
- Chen, Liang-Chih**, 2015, “Building extra-regional networks for regional innovation systems: Taiwan's machine tool industry in China”, *Technological Forecasting & Social Change*, 100:107-117.
- Chen, Liang-Chih** and Shenglin Elijah Chang, 2015, Building and recovering rural economic landscapes: The case of liquor and tea industries in Taiwan. *Procedia - Social and Behavioral Sciences*, 202: 408-416.
- Chen, Liang-Chih**, 2014, “Entrepreneurship, technological changes, and the formation of a subcontracting production system: The case of Taiwan’s machine tool industry”, *International Journal of Economics and Business Research*, 7(2):198-219.
- Chen, Liang-Chih** and Zi-Xin Lin, 2014, “Examining the role of geographical proximity in a cluster’s transformation process: The case of Taiwan’s machine tool industry”, *European Planning Studies*, 22(1):1-19.
- Chen, Liang-Chih**, 2012, “The evolving roles of the state and public research institutes in the technological upgrading process of industries: The case of Taiwan’s machine tool industry”, *Journal of Social Sciences and Philosophy*, 24(1): 19-50. (in Chinese)
- Chen, Liang-Chih**, 2011, “The governance and evolution of local production networks in a cluster: The case of Taiwan’s machine tool industry”, *GeoJournal*, 76(6), 605-622.
- Chen, Liang-Chih**, 2009, “Learning through informal local and global linkages: The case of Taiwan’s machine tool industry”, *Research Policy*, 38(3): 527-535.

Book Chapters

- Chen, Liang-Chih** and Shiuh-Shen Chien, 2017, “Industrial Districts/ Industrial Complex”, in *The International Encyclopedia of Geography: People, the Earth, Environment, and Technology*. Wiley.
- Chien, Shiuh-Shen, **Liang-Chih Chen** and Dong-Li Hong, 2017, “Newly Industrializing Economies (NIEs)”, in *The International Encyclopedia of Geography: People, the Earth, Environment, and Technology*.
- Chen, Liang-Chih**, 2016, “Building industrial systems in China: The networking of Taiwanese machine tool firms in China”, in J.-H. Wang and R.-M. Hsung (Eds) *Rethinking Social Capital and Entrepreneurship in Greater China*, Routledge.
- Huang, Yin-Wei and **Liang-Chih Chen***, 2015, “From making pesticide to making whisky: The development of Kavalan Whisky by King Car Company”, in H.D. Yan (Eds) *Entrepreneurship and Economic Transformation*, Feng Chia University Press. (*corresponding author) (in Chinese)

- Chen, Liang-Chih** and Ling-I Chu, 2015, “Upgrading of latecomer industries in Taiwan and the case of the Taipei International Machine Tool Show”, in H. Bathelt and G. Zeng (Eds) *Temporary Knowledge Ecologies: The Rise and Evolution of Trade Fairs in Asia-Pacific*, Edward Elgar.
- Chen, Liang-Chih**, 2015, “The development of Taiwan’s machine tool cluster and key entrepreneurs”, in F.-L Tony Yu and H.-D. Yan (Eds) *Handbook of East Asian Entrepreneurship*. New York: Routledge.
- Chen, Liang-Chih**, 2011, “Technological learning and capability building in LMT industries in newly industrializing countries: selected examples from Taiwan”, in P.L. Robertson and D. Jacobson (Eds.) *Knowledge Transfer and Technology Diffusion*, Edward Elgar.

Conference Papers

- Chen, Liang-Chih** and Heng-Wen Chen, 2017, “Building innovation space: Hackathons in Taiwan”, *The AAG Annual Meeting*, Boston, U.S.A, April 5-9.
- Kingsbury, Aaron and **Liang-Chih Chen**, 2016, “Challenges and Opportunities: Comparing the Emerging Wine Industries of Changhua County, Taiwan and the Kofu Basin, Japan”, *The AAS Annual Conference*, Seattle San Francisco, U.S.A, March 31-April 3.
- Chen, Liang-Chih** and Heng-Wen Chen, 2016, “Learning technologies and building institutions: The development of M-team in Taiwan’s machine tool cluster”, *The AAG Annual Meeting*, San Francisco, U.S.A, March 29-April 2
- Meng-Ling Tien and **Liang-Chih Chen**, 2015, “After the crisis: The study of regional economic resilience of Taiwan’s machine tool industry”, *The 2015 Urban Planning Joint Annual meeting*, Tainan, Taiwan, December 5. (in Chinese)
- Chen, Heng-Wen and **Liang-Chih Chen**, 2015, “The making and development of newly-emerged local industries: The case of farmers association wineries”, *The 7th Annual meeting of Development Studies, Taipei, Taiwan, October 31-November 1. (in Chinese)*
- Chen, Liang-Chih** and Shiuh-Shen Chien, 2015, “Sourcing knowledge and upgrading stimulus from the South: The case of Taiwan’s machine tool industry in China”, *The AAG Annual Meeting*, Chicago, U.S.A, April 21-25.
- Chen, Liang-Chih** and Shenglin Elijah Chang, 2014, “Building and recovering rural economic landscapes: The case of liquor and tea industries in Taiwan”, *ABRA International Conference on Quality of Life*, Istanbul, Turkey, December 26-28, 2014.
- Chen, Liang-Chih** and Han-Chang Liao, 2014, “The making and development of newly-emerged local industries: The case of farmers association wineries”, *The 6th Annual meeting of Development Studies, Hualien, Taiwan, October 18-19. (in Chinese)*
- Huang, Yin-Wei and **Liang-Chih Chen**, 2014, “From making pesticide to making whisky: The development of Kavalan Whisky by King Car Company”, *The 10th Annual Meeting of Chinese Hayek Society*, Taichung, Taiwan, August 28-20. (in Chinese)
- Chen, Liang-Chih**, 2014, “Building and exploiting networks in China: The case of Taiwanese machine tool industry’s China investments”, *The AAG Annual Meeting*, Tampa, U.S.A, April 7-14.
- Chen, Liang-Chih**, 2013, “Jumping over latecomers’ upgrading barriers: The exploration of China’s upgrading opportunities by Taiwan’s machine tool industry, *Suzhou-Silicon Valley-Beijing 2013 International Innovation Conference*, Suzhou, China, July 8-9, 2013.
- Chen, Liang-Chih**, Ching-Wan Huang, Yin-Wei Huang, Han-Chang, Liao, Cheng-Yu Young, 2013, “New wine in new bottles: The technological learning of Taiwan's newly-emerged

private liquor-makers” , *The AAG Annual Meeting*, Los Angeles, U.S.A, April 9-13.

Chen, Liang-Chih, 2013, “Building industrial systems in China: The networking of Taiwanese machine tool firms in China”, *Conference on Globalization, Social Capital and Entrepreneurship in Greater China*, Taipei, Taiwan, March 8-9, 2013

Chen, Liang-Chih and Zi-Xin Lin, 2011, “The role of spatial proximity in the evolution of local and trans-local communities in the clusters”, *The AAG Annual Meeting*, Seattle, U.S.A, April 12-16.

Chen, Liang-Chih, 2010, “How to understand the roles of the state and public research institute in the technological upgrading of industries in newly industrializing countries? The case of Taiwan’s machine tool industry”, *DURID Summer Conference 2010 on Opening Up Innovation*, London, United Kingdom, June 16-18.

Chen, Liang-Chih, 2008, “Building technology capability through exploiting informal local and global learning linkages: The case of machine tool industry in Taiwan”, *the 25th DRUID Conference 2008 on Entrepreneurship and Innovation*, Copenhagen, Denmark, June 17-20

Academic Functions and Honors

2014-2015 Secretary of Taiwanese Association of Development Studies, Taiwan

2013 Member of Organizing Committee of the Annual Conference of Asian Planning Schools Association, National Taiwan University

2012 Publication Research Award, National Taiwan University, Taiwan

2011 Publication Research Award, National Taiwan University, Taiwan

2009-present Member of Organizing Committee of the Annual Conference of Development Studies in Taiwan, Taiwanese Association for Development Studies

2008-present *Ad hoc* reviewer for

English Journals: *Research Policy, Technological Forecasting and Social Change, World Development, International Development Planning Review, Journal of Business Research, Geografiska Annaler B: Human Geography*

Chinese Journals: *City and Planning, Geography Journal, Journal of Taiwan Land Research, Journal of National Development Studies, Journal of Building and Planning, Journal of Architecture and Planning, Cities and Design: An Academic Journal for Intercity Networking*

International Conference: DRUID Society Conference, Denmark

Research Grant: Ministry of Science and Technology research projects, Taiwan

Research Grants

2016-2018 Innovation landscapes in the digital era: The nexus of physical and virtual spaces, (MOST 105-2410-H-002-149-MY2) (PI) (NTD\$ 2,194,000)

2014-2016 How do domestically-held international trade fairs influence the upgrading of latecomer clusters, sponsored by Ministry of Science and Technology, Taiwan, (MOST 103-2410-H-002-158-MY2) (PI) (NTD\$ 1,734,000)

2013-2014 A study on regional economic resilience, sponsored by National Science Council, Taiwan, (NSC 102-2410-H-002-167) (PI) (NTD\$ 631,000)

2012-2013 The technological learning and innovation of low and medium technology industries: The

- case of Taiwan's liquor-making industries, sponsored by National Science Council, Taiwan, (NSC 101-2410-H-002-189) (PI) (NTD\$ 466,000)
- 2011-2013 Jumping over upgrading barriers: The real and virtual consolidation of Taiwanese machine tool firms and the China opportunity, sponsored by National Science Council, Taiwan, (NSC 101-2420-H-002-007-MY2) (PI) (NTD\$1,292,000)
- 2011-2012 The mechanisms underlying the construction of technological capability of an emerging localized industry, and its influences on local development: The case of Taiwan's liquor industry, sponsored by National Science Council, Taiwan, (NSC 100-2410-H-002-194) (PI) (NTD\$ 485,000)
- 2009-2011 The evolution and upgrading of industrial clusters: local re-embeddedness, inter-cluster linkages and cross-border transplantation, sponsored by National Science Council, Taiwan, (NSC 98-2410-H-002-217-MY2) (PI) (NTD\$ 2,202,000)

Teaching and Mentoring

Courses Taught

Regional Economic Development

- Introduction to Urban and Regional Economic Development (graduate level: Fall 2008-2016)
- Seminar on Regional Economic Development (graduate level: Spring 2009-2015)
- Regional Studies Research Methods (graduate level: Spring 2009, 2010)
- Seminar on Industrial and Regional Development (Ph.D level: Spring 2014)
- Economic Geography (under-graduate level: Spring 2012, 2014, 2016)

Spatial Planning and Design

- Planning Theory (graduate level: Fall 2008, 2009)
- The Spatial Planning and Legal Systems in Taiwan (graduate level: Spring 2008, 2009, Fall 2010, 2013, 2015)
- Urban Planning Studio (graduate level: Fall 2008, Spring 2009)
- Environmental Planning and Design Studio (Spring 2009, 2011, 2013, 2015, 2016, Fall 2010, 2012, 2013, 2016)
- Advanced Planning and Design Studio (Spring 2010, Fall 2012)

Master Students Supervised

Huang, Yu-Wei (2008-2010),

Topic: The development of creative spaces in cities: A case study of Red House Creative Market in Ximen District in Taipei

Huang, Yin-Wei (2011-2013),

Topic: The development of Taiwan's Whisky industry: The divergent paths of King Car Co. and TTL

Liao, Han-Chang (2011-2013),

Topic: A study on the development processes of village wineries established by rural associations in Taiwan

Young, Cheng-Yu (2011-2013),

Topic: Exploring the flavor of Taiwanese wine: The case of Erh-lin's wine industry

Huang, Ching-Wen (2011-2014),

Topic: The role of research institutes in the development processes of Taiwan's fruit wine industry

- Chen, Heng-Wen (2013-2015)
Topic: Building institutions in industrial clusters: The development of the M-team in Taiwan's machine tool industry
- Tien, Meng-Ling (2013-2015)
Topic: After the crisis? The study of regional economic resilience of Taiwan's machine tool industry
- Chang, Ming-Cheng (2014-2016),
Topic: Evaluate the roles of domestically-held international trade fairs in supporting the upgrading of industries in Taiwan
- Huang, Ching-Shi (2014-2016),
Topic: We hold our own trade show: fairs: The study of Taichung Bike Week,
- Chen, Kuan-Fu (2014-present),
Topic: Learning dynamics in international trade fairs

Ph. D. Students Supervised

- Lin, Hong-Jun (2011-present),
Topic: The governance mechanisms of state-founded science parks in Taiwan
- Chu, Ling-I (2012-present),
Topic: Regional governance in China
- Chen, Heng-Wen (2015-present)
Topic: Evolution of industrial clusters

Other Services

National Taiwan University

2014-present, member, Course Committee, Taiwan Study Program

College of Engineering, National Taiwan University

2009-present, member, Computer Application Committee
2009-2012, member, Scholarship Committee

Graduate Institute of Building and Planning, National Taiwan University

2014-present, member (2009), Chair (2010-present), Graduate Admission Committee
2012-present, member, Course Committee
2010-present, member, Faculty Recruitment Committee
2009-present, member, Student Affairs Committee

Licensure

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