

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**, 2018, "Developing technologies or learning institutions? Exploring the role of hackathons for developing innovation capability in emerging economies: The case of Taiwan," *Asian Journal of Technology Innovation*, 26 (2), 202-221.
- Chen, Liang-Chih** and Shenglin Elijah Chang, 2017, "Recovering rural economies: Two cases in Taiwan", *Asian Journal of Quality of Life*, 2(7):21-28.
- 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**, 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.
- Chen, Liang-Chih** and Ling-I Chu, "Technology transformation: The technological learning of

latecomers”, in S.-S. Chien and J.-H. Wang. (Eds) *Development Studies and Contemporary Taiwanese Society*, Chuliu Publishing. (in Chinese)

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. (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 Tzu-Yu Chen, 2018, “Understanding the evolving roles of physical and virtual spaces in the interaction and cooperation processes”, *The 5th Global Conference on Economic Geography*, Cologne, Germany, July 24-28.

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

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| 2018 | Teaching Excellence Award, National Taiwan University, Taiwan |
| 2017 | Publication Research Award, National Taiwan University, Taiwan |
| 2016 | Teaching Excellence Award, National Taiwan University, Taiwan |
| 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 | <i>Ad hoc</i> reviewer for
English Journals: <i>Research Policy</i> , <i>Technological Forecasting and Social Change</i> , <i>World Development</i> , <i>International Development Planning Review</i> , <i>Journal of Business Research</i> , <i>Geografiska Annaler B: Human Geography</i>
Chinese Journals: <i>City and Planning</i> , <i>Geography Journal</i> , <i>Journal of Taiwan Land Research</i> , <i>Journal of National Development Studies</i> , <i>Journal of Building and Planning</i> , <i>Journal of Architecture and Planning</i> , <i>Cities and Design: An Academic Journal for Intercity Networking</i>
International Conference: DRUID Society Conference, Denmark
Research Grant: Ministry of Science and Technology research projects, Taiwan |

Research Grants

- 2017-2020 Understanding the evolution of industrial clusters: multiple trajectories, time and institutions, (107-2410-H-002 -134 -MY3) (PI) (NTD\$ 3,166,000)
- 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 2008-2018)
- 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, 2018)

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, 2017)
- Urban Planning Studio (graduate level: Fall 2008, Spring 2009)
- Environmental Planning and Design Studio (Spring 2009, 2011, 2013, 2015, 2016, 2017; Fall 2010, 2012, 2013, 2016, 2017, 2018)
- 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

Taiwan Urban Planner License, No. 81-2562