

Qiang CAO

(He/Him)

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RESEARCH INTERESTS

Qiang Cao is Phd candidate in Economics at Université Paris-Saclay in France. His research interests focus on regional innovation and development across various spatial scales, involving multiple actors, relationships, and levels of knowledge.

His PhD research explores how multiple networks influence local innovation and development in the seed industry. He takes a multidisciplinary approach, combining relational and spatial perspectives, and uses both quantitative and qualitative methods. His work draws on theories such as evolutionary economic geography, relational economic geography, social network theory, proximity theory, innovation systems, cluster life cycles, global value chains, and new industrial path development.

Throughout his PhD, he gained deep knowledge of the global seed industry and developed strong skills in using AI tools for text and network data analysis. He is also an highly motivated, open-minded, and lifelong learner.

DOCTORAL STUDIES

Ph.d. in Economics, Université Paris-Saclay, INRAE, UMR SADAPT, Paris, France, (2020 – Expected Jan 2025)

DISSERTATION: “Innovation and Governance: A Comparative Study of Agri-clusters in China and France”

FIELDS: Economic Geography, Regional Studies, Innovation Studies

Professor [André Torre](#)
andre.torre.2@inrae.fr

Professor [Maryline Filippi](#)
maryline.filippi@agro-bordeaux.fr

PRIOR EDUCATION

M.S. in Human Geography, Liaoning Normal University, Dalian, China, 2017 – 2020

B.S. in Human Geography and Urban-Rural Planning, China West Normal University, Nanchong, China, 2013 – 2017

PUBLICATIONS

Qiang Cao, André Torre, Maryline Filippi. *Multi-pipelines' impact on local innovation systems. A case study of China's tomato seed industry* (Submit to Journal of Economic Geography, Major Revision)

Qiang Cao, André Torre, Maryline Filippi. *The role of multiplex and multiscalar networks in new industrial path development: a case study in the Chinese cluster of seed breeding industry* (Submit to Papers in Regional Science)

Qiang Cao, André Torre, Maryline Filippi. *Innovation studies in agriculture and their evolutions. A bibliometric review* (Submit to Agronomy for Sustainable Development)

Qiang Cao, Caizhi Sun, Liangshi Zhao, Weiwei Cao, and Xiaolu Yan. [Marine resource congestion in China: Identifying, measuring, and assessing its impact on sustainable development of the marine economy](#). PloS one, 2020

Caizhi Sun, **Qiang Cao**, Wei Zou, [*Assessment of marine economy resilience of coastal cities in Bohai Sea Ring Area based on entropy efficiency model*](#), Journal Of Ningbo University (NSEE), 2020

Caizhi Sun, **Qiang Cao**, Zeyu Wang, [*Vulnerability Evaluation of Marine Economic System in the Coastal Area of Bohai Rim*](#), Economic Geography, 2019

PRESENTATION IN CONFERENCE

71th North American Regional Science Council ([NARSC](#)) Conference (USA, 2024)

- Presentation: The role of proximities in local multiplex networks: A case study of the seed breeding industry in an agricultural cluster in China

7th Geography of Innovation ([GEOINNO](#)) Conference (UK, 2024)

- Presentation: Multiplex networks and knowledge flows within clusters: A case study of China's seed industry

14th Regional Science Association International ([RSAI](#)) World Congress (Hungary, 2024)

- Presentation: Social Network Analysis and Qualitative Insights to Understand Learning Processes Within Clusters. A Case in the Vegetable Seed Breeding Industry in China

[International PhD course](#) on Economic Geography at Utrecht University (Netherlands, 2024)

- Presentation: Global pipelines and local buzz in peripheral eco-systems: multiplex networks relations perspective. The case of the Chinese seed industry

62th European Regional Science Association ([ERSA](#)) Congress (Spani, 2023)

- Presentation: International pipelines' impact on local innovation systems: a case study of China's tomato seed industry

Annual Conference of SADAPT in INRAE, Paris-Saclay University (France, 2023)

- Presentation: A fieldwork summary_How do farmers search for and share planting knowledge in a high-industrialization Agri-cluster in China?

Seminars of Proximités team in INRAE, Paris-Saclay University (France, 2023)

- Presentation: Innovation and Governance: A Comparative Study of Agri-clusters in China and France

BOOK CHAPTERS

Chapter: *Taking the Changshan Islands as An Example to Study the Sustainable Development of Islands Based on Human-Land Relationship*. Science Press. 2019

Chapter: *Coastal Resource Carrying Capacity and Environmental Vulnerability in Liaoning Province*. Science Press. 2018

GRANTS

Ph.D. Grant of China Scholarship Council (2020-2024)

Grant of Campus France (2021-2024)

CERTIFICATE

International PhD course on Economic Geography at Utrecht University (2024)

Outstanding Winner of World Ocean Day of the Liaoning Geographical Society (2019)

First Prize of 11th Ocean Forum of Liaoning Normal University (2018)

ACTIVITIES

Researcher Of SADAPT, INRAE In France (2024)

Mentor Role Of Master Intership In France (2023)

Mentor Role Of Master Research In China (2022)

Planning For Danzhou Electric Vehicle Charging Infrastructure (2019)

Report On Development Of Modern Marine Service Industry In Liaoning Province (2019)

Report On First Aid System Construction Survey In Dalian (2019)

SKILLS

Proficient in R, Gephi, ArcGIS, QGIS, CiteSpace, VOSviewer, DataGraph, Chatgpt, Notion

Intermediate in Stata, UCINET, Nvivo, LateX, Midjourney

Chinese (native), English (proficient), French (basic, improving)