

Tang, Juk-Sen

Also Known As: TANG, Yushen

☎ +1 (438) 941-6868 | 📍 Montreal, Quebec, Canada
✉️ juksen.tang@mail.mcgill.ca | 📧 tangyushen@cste.org.cn | 📞 0009-0009-8849-874X | 🎓 Google Scholar

Undergraduate researcher in agricultural economics with focus on spatial econometrics and causal inference

EDUCATION

McGill University <i>B.Sc. Agricultural Economics (Agricultural & Environmental Sciences)</i>	Montreal, Quebec, Canada Aug 2023 – Jan 2027 (expected)
Peking University <i>Visiting Student, Guanghua School of Management</i>	Beijing, P.R. China Feb 2025 – Jun 2025
Nanjing University of Aeronautics and Astronautics (NUAA) <i>Visiting Student</i>	Nanjing, Jiangsu, P.R. China May 2024 – Aug 2024

PUBLICATIONS

- Agricultural Productivity and Its Spatial Spillover Effects in China** *Agriculture*, 2026, 16(5), 543
Tang, J.-S. (Lead Author), Lu, H., Gong, T., & Chen, J. [DOI](#)
- Estimated provincial agricultural TFP across 31 Chinese provinces (2014–2023) using a novel IV-LP-ACF-SAR framework; identified mechanization as the dominant output driver and significant negative spatial spillovers in scale efficiency.

WORKING PAPERS

- Causal Machine Learning Reveals Divergent Effectiveness of Governance Modes for Sustainable Agricultural Transformation** Preprint, 2026
Tang, J.-S. (Lead Author), Zhang, H., Shan, L., & Chen, J. [DOI](#)
- Applied Causal Forest with DML to three policy reforms across 2,700+ Chinese counties; showed that governance design, not fiscal magnitude, determines effectiveness, and data-driven targeting outperforms administrative allocation.
- Scaling Laws, Poverty Traps, and the Urbanization Crossover in Chinese County Economies** Preprint, 2026
Tang, J.-S. (Sole Author) [DOI](#)
- Estimated sector-specific urban scaling exponents for ~2,800 Chinese counties (2000–2023); identified an urbanization crossover threshold ($u^* = 0.80$) and persistent scaling deficits in 832 designated poverty counties.
- Are Food Safety Classifiers Learning Hazards or Memorizing Firms? Entity-Level Leakage in FDA Recall Severity Prediction** Preprint, 2026
Li, P. & Tang, J.-S. (Corresponding Author) [DOI](#)
- Benchmarked ML classifiers on 28,448 FDA recall records; exposed that 92% of apparent performance stems from firm-level memorization and proposed group-aware evaluation protocols.
- Carbon Price Certainty and Green Innovation: Evidence from Canada's Federal Backstop Policy** Preprint, 2025
Tang, J.-S. (Sole Author) [DOI](#)
- Exploited Alberta's 2019 backstop adoption as a natural experiment across 1,381 firms; found that legislative clarification, not announcement, drives green patenting, while output expansion fully offsets emission intensity gains.

EXPERIENCE

- Key Lab of Urban Agriculture (North China)**
Ministry of Agriculture and Rural Affairs
Beijing Academy of Agricultural and Forestry Sciences Beijing, P.R. China
Research Assistant May 2025 – Present
- Drafted policy briefs for the PRC 15th Five-Year Agricultural Plan, focusing on regional economic coordination and benchmarking Canada's agricultural science and technology innovation systems to inform domestic policy.

- Built spatial econometric datasets and analysed TFP-based coordination patterns across Beijing-Tianjin-Hebei, identifying technology spillover, efficiency drag, and scale synergy channels to inform regional integration policy.

International Education College, NUAA

Nanjing, Jiangsu, P.R. China

Admissions Agent

May 2024 – Present

- Coordinate bilingual outreach, interview logistics, and enrollment reporting for international student recruitment.

SKILLS

Tools & Programming: Python (spatial econometrics, causal forest, data pipelines); C/C++; Stata; R; MATLAB; GeoDa; EconML; scikit-learn; ArcGIS/QGIS

Languages: Mandarin, Cantonese, Southwestern Mandarin & Hunanese (Native); English (Professional, CATTI-certified); French (Conversational)

Communications: International admissions recruitment; bilingual translation; media coordination

LEADERSHIP & SERVICE

Chinese Students & Scholars Association (CSSA), McGill University Montreal, Quebec, Canada

Secretary — cross-campus communications, budgeting, and event planning for 400+ students

Sep 2023 – Present

CERTIFICATES & MEMBERSHIPS

CATTI International Translator & Interpreter Qualification (2024) | Member: Canadian Agricultural Economics Society (CAES); Agricultural Economics Branch, CSTE