

XIAODAN YU

xiaodan.yu@nottingham.edu.cn

SUMMARY

- Research interests in **industrial dynamics, economics and management of innovation, entrepreneurship, firm growth and Chinese economy.**
- Solid statistical and data analysis skills. Excellent oral and written communication skills. Excellent teamwork skills.
- Enthusiasm for teaching, building social networks and research collaborations.

ACADEMIC AFFILIATIONS

Nottingham University Business School China, Ningbo September 2017 - Present
Assistant Professor in Entrepreneurship and Innovation

- Research projects: explore the pattern of product diversification and technological diversification; corporate science in China; productivity and international price pass-through; the twin transition in Chinese regions; AI and corporate science and R&D

Sant'Anna School of Advanced Studies, Pisa September 2017 - Present
Research fellow

- Research projects: innovation and the growth patterns of start-ups, small and medium-sized enterprises; corporate science, capability accumulation and firm growth.

IBIMET - Consiglio Nazionale delle Ricerche, Firenze January 2017 - August 2017
Senior research fellow

- Research projects: analyze China's technological development and the dynamics of productivity, employment and wages.

Sant'Anna School of Advanced Studies, Pisa September 2014 - January 2017
Postdoctoral research fellow

- Research projects: investigate the characteristics of persistent high-growth firms in a capability-based view; explore the effects of technological change and demand in driving employment dynamics.

EDUCATION

Sant'Anna School of Advanced Studies, Pisa September 26, 2014
Ph.D. in Economics

- Thesis Topic: *The Dynamics of Learning, Restructuring and Catching-up: the Evidence from China's Manufacturing 1998-2007*
- Advisor: Giovanni Dosi, Ph.D.
- Dissertation Committee: Josef Brada, Giovanni Dosi, Alessandro Nuvolari, Adam Szirmai, Federico Tamagni and Brian Wu.

University of Cincinnati, Cincinnati, OH September 3, 2009
Master of Science in Statistics

- Pass the Ph.D. qualification exam.
- GPA: 3.7/4.0
- Advisor: James A. Deddens, Ph.D.

Beihang University, Beijing
Bachelor of Engineering in Industrial Design

July 2007

- Thesis and project: *The Science&Education Robot: Marketing and Product Development.*
- GPA: 3.4/4.0
- Advisor: Rong Zhang, Ph.D.

VISITING STUDY

**Strategy Dept., Ross School of Business,
University of Michigan, Ann Arbor, MI**

March - August 2014

- Courses: Industrial economics, Industrial organization and public policy, Strategy seminar series.
- Research: construct proxies for firm-specific capabilities.
- Advisor: Brian Wu, Ph.D.

BETA, University of Strasbourg, Strasbourg

November - December 2010

- Courses: Competition regime, Strategic substitutability and complementarity in economics, Principles in creativity economics, Behavior and anticipation, Dynamical systems, Strategic management of patents, Network economy, Theories of firm, Experimental economics, Imperfect competition.

SERVICES AT THE UNIVERSITY

Nexus for Innovation and Entrepreneurship (NIE)

March 2024-

- Role: Director of NIE
- Organization: NIE is a programme under the Ingenuity Lab of the University of Nottingham Ningbo China
- Activity: organize company field trips for students and supervise their entrepreneurial projects

TEACHING-RELATED TRAINING AND RECOGNITION RECEIVED

Fellow

2024

- Being recognized as Fellow (FHEA) by Advance HE

Entrepreneurship Leadership & Innovation Executive Development Program

July 17 -
August 5, 2022

Participant

Online

- Activity: complete the Experiential Learning Teaching Method Program

Harvard Business School Case Teaching Series

November 2017

Participant

Shanghai, China

- Activity: learn case teaching method from the Senior Lecturer of Business Administration at HBS.

TEACHING EXPERIENCE

Nottingham University Business School China

September-December, 2020-2023

Lecturer

Ningbo, China

- Topic: Corporate Entrepreneurship
- Duties: teach the 3rd year undergraduate students at NUBS China

Nottingham University Business School China

September-December, 2019-2023

Lecturer

Ningbo, China

- Topic: Industrial Economics: Economics of Innovation
- Duties: teach the 3rd year undergraduate students at NUBS China

Nottingham University Business School China
Module Convenor

September-December 2018 and 2019
 Ningbo, China

- Topic: Entrepreneurship Theory and Practice
- Duties: teach the 2nd year undergraduate students at NUBS China

Nottingham University Business School China
Lecturer

February-May 2019
 Ningbo, China

- Topic: Corporate Entrepreneurship and Innovation Management
- Duties: teach master students in Innovation & Entrepreneurship at NUBS China

Nottingham University Business School China
Lecturer

April - May 2018
 Ningbo, China

- Topic: Entrepreneurial Management
- Duties: teach master students in Innovation & Entrepreneurship at NUBS China

Nottingham University Business School China
Module Convenor

September - October 2017
 Ningbo, China

- Topic: Innovation Management
- Duties: teach master students in Innovation & Entrepreneurship at NUBS China

Sant'Anna School of Advanced Studies
Teaching Assistant

May 2017
 Pisa, Italy

- Topic: Economics and Management of Innovation
- Duties: teach master students in economics at Sant'Anna.

Sant'Anna School of Advanced Studies
Teaching Assistant

June 2015
 Pisa, Italy

- Topic: Industrial Dynamics
- Duties: teach the first year Ph.D students in economics at Sant'Anna.

University of Cincinnati
Tutor at the Mathematical Learning Center

April 2008 - June 2009
 Cincinnati, OH

- Duties: teach undergraduate level algebra, calculus and statistics.

RESEARCH EXPERIENCE

Sant'Anna School of Advanced Studies
Research Assistant

October 2010 - September 2014
 Pisa, Italy

- Research project: "Detect the statistical regularities of the evolutionary patterns of Chinese industry based on manufacturing firm level evidence."
- Supervisor: Giovanni Dosi, Ph.D.

University of Cincinnati
Consultant & Research Assistant at the Statistical Consulting Lab

August 2008 - June 2009
 Cincinnati, OH

- Duties: advise post graduate students from other disciplines in selecting appropriate statistical models and data analysis, statistical software using and interpretation of outputs; accomplish research projects in teacher assessment and evaluation.

· Supervisor: James A. Deddens, Ph.D.

PROFESSIONAL SERVICES

- Serve as the Vice Director of the International Communication Committee, and the Under Secretary General of the Innovation and Entrepreneurship Branch, China Technology Economics Association
- Reviewing services: Ad hoc reviewer for *Research Policy*, *Industrial and Corporate Change*, *Small Business Economics*, *Structural Change and Economic Dynamics*, *Journal of Evolutionary Economics*, *Regional Science*, *Emerging Markets Finance and Trade*, *Journal of Industry Competition and Trade*, *Management and Organization Review*, *Academy of Management annual conference*, *Industrial Management & Data Systems*, *Economics of Innovation and New Technology*, *Innovation: Organization & Management* and *Review of Development Economics*.
- Memberships: Academy of Management, American Economic Association, Econometric Society, European Association for Evolutionary Political Economy, International Schumpeter Society, Strategic Management Society, The Chinese Economist Society.

PUBLICATIONS

1. Luo, X., Qian, W., Liu, M., Yu, X., & Liu, Y. (2024). Towards sustainability: digital capability, sustainable business model innovation, and corporate environmental responsibility of high-performing enterprise in an emerging market. *Business Strategy and the Environment*, <https://doi.org/10.1002/bse.3766>
2. Dosi, G., Virgillito, M., & Yu, X. (2023). Gains from trade or from catching-up? Value creation and distribution in the era of China's WTO accession. *Eurasian Business Review*, 13, 119-166, <https://doi.org/10.1007/s40821-022-00212-5>
3. Dosi, G., Virgillito, M., & Yu, X. (2020). The wage-productivity nexus in the World Factory economy. *World Development*, 129, 104875, <https://doi.org/10.1016/j.worlddev.2020.104875>
4. Dosi, G., & Yu, X. (2019). Technological catching-up, sales dynamics and employment growth: evidence from China's manufacturing. *Industrial and Corporate Change*, 28(1), 79-107, <https://doi.org/10.1093/icc/dty023>
5. Moschella, D., Tamagni, F., & Yu, X. (2019). Persistent high-growth firms in China's manufacturing. *Small Business Economics*, 52, 573-594, <https://doi.org/10.1007/s11187-017-9973-4>
6. Yu, X., Dosi, G., Grazzi, M., & Lei, J. (2017). Inside the virtuous circle between productivity, profitability, investment and corporate growth: an anatomy of Chinese industrialization. *Research Policy*. 46, 1020-1038, <https://doi.org/10.1016/j.respol.2017.03.006>
7. Yu, X., Dosi, G., Lei, J., & Nuvolari, A. (2015). Institutional change and productivity growth in China's manufacturing: the microeconomics of knowledge accumulation and "creative restructuring". *Industrial and Corporate Change*, 24(3), 565-602, <https://doi.org/10.1093/icc/dtv011>
8. Kai, R., Meng, X., & Yu, X. (2013). The impact of S&T human resource factors on Chinese local university patenting-licensing activities. *Forum on Science and Technology in China* (a leading management journal in China), Vol. 4: 135-141.

Articles under review

9. Yu, X., Luo, D., Zhang, Q., & Grabner, S., Path-dependence and leap forward: innovation in Chinese firms during the Fourth Industrial Revolution.
10. Yu, X., Li, H., Grabner, S.M., & Hua, X., China's twin transition: regional patterns and drivers of technological diversification.

Book Chapters

11. Zhong, S., Yu, X., & Zhou, H. (2022). Mixed-ownership reform and innovation performance of private-owned enterprises: firm-level evidence based on difference-in-difference approach. In H. Chan, M. Liu, J. Wang & T. Zhang (Eds.) *Responsible Innovation Management*. Springer Nature. ISBN: 9789811944796.
12. Dosi, G., & Yu, X. (2021). Capabilities accumulation and development: What history tells the theory. In X. Fu, J. Chen, B. McKern (Eds.), *The Oxford Handbook of China Innovation*. Oxford University Press, ISBN: 9780190900533.
13. Cimoli, M., Dosi, G., & Yu, X. (2020). Industrial policies, patterns of learning and development: An evolutionary perspective. In A. Oqubay, C. Cramer, H. Chang, & R. Kozul-Wright (Eds.) *The Oxford Handbook of Industrial Policy*. Oxford University Press, ISBN: 9780198862420.

Work in progress

14. Li, L., Yu, X., Moschella, D., & Huang, C., Catching up through diversification: technology and product scope of Chinese manufacturing firms.
15. Li, L., Yu, X., Huang, C., & Wang, L., Heterogenous patent portfolios, market uncertainty and firm value: a differential signaling perspective.
16. Dosi, G., Huang, C., Li, L., Virgillito & M., Yu, X. The pass-through from productivity gains to international prices: Evidence from China's manufacturing.
17. Martinelli, A. Yu, X. Yao, Z., & Ruan, Y., The rise of corporate science in China? Evidence from top R&D investors.
18. Yu, X., Zhang, Q., Li, N., Lockett M., & Mencaroni, A., Corporate science: a bibliometric analysis, review and research agenda.
19. Meliciani, V., & Yu, X., Technology-product space and firm performance? Evidence from Chinese manufacturing firms
20. Yu, X. Entrepreneurship climbing up the ladder of technology-product space? Evidence from Chinese manufacturing firms

CONFERENCE/INVITED PRESENTATIONS

The twin transition in Chinese regions: joining green and digital transformations

1. *Chinese Economists Society (CES) China Annual Conference*, Hangzhou, July 5-7, 2024.
2. *GeoInno*, Manchester, Jan. 10-12, 2024.
3. *OEET Workshop*, Turin, Dec. 14-15, 2023.

Catching up and leap forward in the era of the Fourth Industrial Revolution: evidence from Chinese firms

1. *International Workshop on Dual Transition of Firms Towards SDGs*, Zhejiang University, Hangzhou, July 20-21, 2024,
2. *Asian Meeting of the Econometric Society*, Beijing, June 20-July 2, 2023.
3. *Chinese Economists Society (CES) China Annual Conference*, Wuhan, June 21-25, 2023.
4. *DRUID23*, Lisbon, June 10-12, 2023.
5. *2023 NUBS Tri-campus Conference*, Ningbo, March 7-10, 2023.

6. *13th China Innovation and Enterprise Growth (CI&G) Conference*, Xiangtan University (virtual), Nov. 19-20, 2022.

Technology-product space and firm performance? Evidence from Chinese manufacturing firms

1. *Chinese Economists Society (CES) China Annual Conference*, Guizhou University (virtual), June 24-26, 2022.

Catching up through diversification: technology and product scope of Chinese manufacturing firms.

2. *R&D Management Conference 2022*, Trento, July 9-13, 2022.
3. *18th International Schumpeter Society Conference*, Rome (virtual), July 8-10, 2021.
4. *Chinese Economists Society (CES) China Annual Conference*, Huazhong University of Science and Technology (virtual), June 19-20, 2021.

Gains from trade or from catching up? Patterns of value distribution in the era of China's WTO accession.

5. *2019 International Conference on Applied Economics (ICOAE)*, Milan, July 3-4, 2019.

The wage-productivity nexus in the World Factory economy

6. *2019 China Meeting of the Econometric Society*, Jinan University, Guangzhou, China, June 18-20, 2019.
7. *Chinese Economists Society (CES) China Annual Conference*, Dongbei University, Dalian, June 8-9, 2019.
8. *ICC-Tsinghua Conference*, Tsinghua University, Beijing, May 23-25, 2019.
9. *Comparative Analysis of Enterprise Data (CAED) Conference*, University of Michigan, Ann Arbor, MI, USA, May 17-19, 2019.
10. *The 1st Renmin University / GLO Conference* Beijing, October 20-21, 2018.
11. *The 30th European Association for Evolutionary Political Economy (EAEPE) Conference*, Nice, France, September 6-8, 2018.
12. *2018 International Conference on Applied Economics (ICOAE)*, Warsaw, Poland, July 5-7, 2018.
13. *2018 International Schumpeter Society (ISS) Conference*, Seoul National University, Korea, July 2-4, 2018.

Technological catching-up, sales dynamics and employment growth: evidence from China's manufacturing

14. *Second World Congress of Comparative Economics*, St. Petersburg, Russia, June 15-17, 2017.
15. *2017 China Meeting of the Econometric Society*, Wuhan, China, June 9-11, 2017.
16. *EMAE 2017: 10th European Meeting on Applied Evolutionary Economics*, Strasbourg, France, May 31-June 3, 2017.

Persistent high-growth firms in China's manufacturing

17. *EMAE 2017: 10th European Meeting on Applied Evolutionary Economics*, Strasbourg, France, May 31-June 3, 2017.
18. *International Workshop & Small Business Economics Special Issue on Entrepreneurship in China*, Peking University, Beijing, October 14-15, 2016.

Inside the virtuous circle between productivity, profitability, investment and corporate growth: an anatomy of Chinese industrialization

19. *Danish Research Unit for Industrial Dynamics (DRUID) 20th Anniversary Conference*, Copenhagen, Denmark, June 13-15, 2016.
20. *First World Congress of Comparative Economics*, Rome, Italy, June 25-27, 2015.
21. *11th European Network on the Economics of the Firm (ENEF) Meeting*, Manchester, UK, September 11-12, 2014.
22. *The Pacific Rim Conference 3: Financial and Economics Links and Institutions for Prosperity*, Waikoloa, HI, USA, May 14-17, 2014.
23. *Danish Research Unit for Industrial Dynamics (DRUID) Academy 2014 Conference*, Aalborg, Denmark, January 15-17, 2014.

Institutional change and productivity growth in China's manufacturing: the microeconomics of knowledge accumulation and "creative restructuring"

24. *13th European Association of Comparative Economic Studies (EACES) Biennial Conference*, Budapest, Hungary, September 4-6, 2014.
25. *The Third Annual European Strategy, Entrepreneurship and Innovation (SEI) Doctoral Consortium*, Imperial College Business School, London, UK, September 21-22, 2013.
26. *The Twentieth Consortium for Competitiveness and Cooperation Colloquium*, Kansas City, MO, USA, March 23-24, 2013.
27. *CEGESR Ph.D. Seminar*, Tsinghua University, Beijing, China, November 2012.
28. *The Fifth Annual Conference of Academy of Innovation and Entrepreneurship*, Macau, China, July 8-10, 2012.

RESEARCH GRANTS

- University of Nottingham Ningbo China RKE Interdisciplinary Research Engagement Fund, Sep. 2024 - Sep. 2025, 50,000 Chinese yuan, principal-investigator.

I am the PI of the project: Regional economic and environmental disparities in China: the role of digital and green technological transition

- Natural Science Foundation of China under Young Scientist Fund Program (72102115), 2022-2024, 300,000 Chinese yuan, principal-investigator.

I am the PI of the project: Corporate science and radical innovation: a multilevel perspective based on science-technology knowledge interplay

- Matching Fund (2021-2024) granted 150,000 Chinese yuan, fund holder.

The fund is awarded by the University of Nottingham Ningbo China to support the NSFC funded research project.

- Zhejiang Soft Science Key Project (2021C25025), 2021-2022, 100,000 Chinese yuan, co-investigator.

I participated in the research project: The drivers of original innovation in China and Zhejiang province.

- H2020 GROWINPRO project (2019-2022), project member.

I undertook scientific research activities related to some of the working packages of the whole project, including investigating the microeconomics of the drivers and effects of productivity

change. I have participated in the kick-off meeting of the project. Several papers have been published in academic journals as the research delivery for the project. My research found important empirical evidences of the wage-productivity nexus for China's manufacturing firms, that offers both the stylized facts for developing the theoretical models and the comparative evidences from one of the major economies to that of the EU countries. I have been actively participating in academic conferences worldwide for disseminating the research results from the project.

- ORSS Fund (2017-2021) granted 30,000 Chinese yuan/year (3,800 euro/year), fund holder.

I have been awarded the ORSS (Outstanding Research Supporting System) fund from the Nottingham Business School China. This fund has been granted based on some competitive selection procedures. I was the fund owner. I have been using this fund to hire research assistant and go to academic conferences.

- H2020 ISIGROWTH project (2015-2018), project member.

I undertook scientific research activities related to some of the working packages of the whole project, including analyzing the globalization of production and finance and de-industrialization from a comparative perspective. Several papers have been published in academic journals as the research delivery for the project. My research investigates the roles of product and process innovation in employment dynamics, and searches for the drivers of the persistent-high-growth firms in China's manufacturing. These findings offer novel stylized facts from one major emerging economy in the world as comparative evidences. I have been actively participating in academic conferences globally for disseminating the research results from the project.

GRANTS, HONORS AND AWARDS

Teaching awards and honors

The UG module "Corporate Entrepreneurship" I taught has been awarded the 2022 Provincial First Class UG Module by Zhejiang Education Department.

Talent programs

2022 Yongjiang Talent Cultivation Program (Level 3) awarded by Ningbo municipal government.

Research awards and honors

2013 SEI Doctoral Consortium at Imperial College Business School, London, invited participant.

2013 CCC Doctoral Consortium, Kansas City, MO, invited participant.

Research grants

Assegno di Ricerca, Sant'Anna School of Advanced Studies, 2011- 2014.

Research Assistant Fellowship, Statistical Consulting Lab, University of Cincinnati, 2008-2009.

University Graduate Scholarships (UGS) of University of Cincinnati, 2007-2009.

Merit-based university honors and awards

Outstanding Student Scholarship, Beihang University, 3rd Prize, 2004, 2005 and 2006.

The First Beijing Undergraduate Arts Show, 2nd Prize in Painting Section, May 2005.

OTHER SOCIAL ACTIVITIES AND INDUSTRIAL INTERNSHIPS

- Volunteer Chinese-English translator for the *First meeting of the International Forum on Social Contradictions Prevention and Response*, Pisa, Italy, May 27, 2016.

- Visiting intern at Shenyang Liming Aero-Engine Group Corporation, Shenyang, China, July-August 2006.
- Volunteer teacher at Beihang Primary School, Beijing, China, September-December 2005.
- Intern journalist at News and Advertisements Department at Shanxi Radio and Television Station, Taiyuan, China, July-August 2004.

LANGUAGE SKILLS

Chinese	Mother tongue
English	Advanced (Oral English Proficiency Test, Ohio State Department of Education)
Italian	Intermediate

COMPUTER SKILLS

Operating system	Windows, Linus and Mac OSX
Word processing & Presentation	Latex and Office
Statistics	SAS, STATA, R, SPSS and GRETL
Engineering	MATLAB and AUTOCAD

REFERENCES

Giovanni Dosi (advisor)

Professor, Director of Institute of Economics
 Institute of Economics
 Sant'Anna School of Advanced Studies
 Piazza Martiri della Libertà, 33 - 56127 Pisa (Italia)

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 E-mail: gdosi@sssup.it

Alessandro Nuvolari (dissertation committee member)

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 Institute of Economics
 Sant'Anna School of Advanced Studies
 Piazza Martiri della Libertà, 33 - 56127 Pisa (Italia)

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 Director of Center for Enterprise Growth and National Economic Security
 School of Economics and Management, Tsinghua University
 Beijing 100084, China

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Federico Tamagni (dissertation committee member)

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 Institute of Economics
 Sant'Anna School of Advanced Studies
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