

An Yu Chen

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[LinkedIn](#) and [Website](#)

Research interests

My research explores questions of how scientific and technological knowledge is generated, flows, and disseminates, with interests in:

- Emerging technologies for sustainable transition
- The co-evolution of science and technology in response to societal problems
- New strategies for knowledge diffusion between science and technology
- Gender research for inclusivity in scientific and inventive activities and its impact on technological innovation

Current Position

Sept 2021-Present **Doctoral Researcher** in Innovation
MIOIR & AMBS, **University of Manchester**

Education and Qualifications

Sept 2021-Present **PhD** in Science, Technology and Innovation Policy
MIOIR & AMBS, **The University of Manchester**
Supervisory Team: Prof. Cornelia Lawson and Prof. Silvia Massini
Thesis: How does the flow of scientific and technological knowledge, along with their interconnected influences, shape the development of green technologies?
(The anticipated submission date of thesis: 31st May)

Sept 2013-Oct 2015 **MA** in Business Administration in Technology Management
College of Technology Management, **National Tsing Hua University**

Sept 2010-Jul 2013 **BA** in Economics
College of Technology Management, **National Tsing Hua University**

Jan 2015-Jun 2015 **Exchange Student** in Management
School of Management, **Fudan University**

Research Experience

Mar 1st -31st 2025 **Visiting Scholar, Politecnico di Milano**

- Discussed research on the topic of scientific knowledge's contributions to the development of new technologies with EFI (Entrepreneurship, Finance and Innovation) community
- Explored the research areas of Prof. Stefano Baruffaldi and examined potential research topics, along with the discussion on strategies for early-career researchers to collaborate and find co-authors

May 2024-Dec 2024 **Research assistant, MIOIR & AMBS, The University of Manchester**

	<ul style="list-style-type: none"> - Project: UK Doctoral Graduates' Contribution to Innovation funded by IRC/ESRC working with Prof. Cornelia Lawson and Dr Xin Deng - Gained experience with ProQuest download processes and coding in TDM Studio - Verified text mining data by checking Scopus author profiles - Learned how to handle missing data and extract data from websites - Data analysis using R and Python - Wrote reports focusing on the patterns of gender and ethnicity of PhD graduates
Apr 2023-Jan 2024	Research assistant, MIOIR & AMBS, The University of Manchester <ul style="list-style-type: none"> - Project: Multiple affiliations in research publications funded by MIOIR working with Prof. Cornelia Lawson and Prof. Hanna Hottenrott - Using PySpark in ICSR Lab to retrieve Scopus data - Worked with ICSR Lab partner and assisted in paper writing - Analysed journal articles with topic modelling using Python - Explored AI-related article in Math journals
Sept 2017-July 2020	Student Research assistant, National Taiwan University <ul style="list-style-type: none"> - Assisted in delivering the undergraduate Business Management course - Analysed publication data in Taiwan and researched into management implications - Assisted Journal Editor (Prof. Bou-Wen Lin) for Taiwan Hsinchu Industry and Management Forum

Research in progress

Chen, A. Y., Lawson, C., & Massini, S. Understanding the connection: How scientific foundations drive innovation in green technologies? [DRUID conference paper]. Targeted journal: Industry and Innovation or Research Policy (RP).

Chen, A. Y., Lawson, C., & Massini, S. Understanding the characteristics of green scientific knowledge base and connections to technologies [In progress]. Targeted journal: Industry and Innovation or Research Policy (RP).

Chen, A. Y., Lawson, C., & Massini, S. Science Usage in Green Technologies: How do gender dynamics in patent inventor teams influence the use of science? [In progress]. Targeted journal: Technological Forecasting and Social Change or Research Policy (RP).

Herbert, R., Ding, A., Hottenrott, H., Lawson, C., Chen, A. Y. Understanding simultaneous academia-industry affiliations [In progress]. Target journal: Journal of Technology Transfer.

Conference and Seminar Presentations (recent)

- Understanding the characteristics of green scientific knowledge base. Paper presented at EFI (Entrepreneurship, Finance and Innovation) Research Seminar at Department of Management, Economics and Industrial Engineering of Politecnico di Milano (2025)
- The nexus between science and technology: How are synergies manifesting between the scientific foundations and innovations in green technologies? Paper presented at the DRUID24 conference. (2024).
- Understanding the connection: How scientific foundations drive innovation in green technologies? Paper presented at the 10th ZEW Conference on the Economics of Innovation and Patenting, Mannheim, Germany. (2024, September 26-27).
- The nexus between science and technology: How are synergies manifesting between the scientific foundations and innovations in green technologies? EoSI Workshop 2024: 30-31st May, Bordeaux, France. (2024, May).
- How green technology patents link to their scientific knowledge base. Eu-SPRI2023 ECR event, University of Sussex Business School, June 13, 2023. (2023).
- Green technologies and their reliance on science: Research into knowledge bases using patent citations. REGIS Summer School, Sant'Anna School of Advanced Studies, Pisa, Italy, June 5–7, 2023. (2023).
- Green technologies and their reliance on science: Research into knowledge bases using patent citations. 3rd Early Career Researchers Conference – SIIB2023, Manchester, UK. (2023).

- How green technologies rely on a range of fields in science: A research into knowledge base via patent citations. ECC PhD Days Ingenio 2023: Addressing old and new social challenges: Knowledge, policies, inclusion. Valencia, Spain. (2023, February).
- An investigation of interdisciplinary research: Knowledge flows and technological fusion in environmental technologies. Doctoral Symposium, BAM2022 Conference, British Academy of Management, Manchester, UK. (2022).
- An investigation into interdisciplinary trends and processes via social network analysis. Q-KNOW PhD Workshop. Online. (2021)

Research Reports

Lawson, C., Deng, X., Martinez, C., Corsini, A., Panda, S., Shen, T., Chen, A.Y., Ding, L. (2024) STEM Doctoral Graduates and Inventive Activities: DOC-TRACK extension to United Kingdom, First technical Report.

Research Grants

Eu-SPRI circulation scheme-PhD circulation Awards, becoming visiting PhD student at Politecnico di Milano School of Management through the Eu-SPRI Forum Early Career and PhD Researchers Circulation program, supervised by Prof. Stefano Baruffaldi (March 2025)

RADMA Postgraduate Research Support Awards, “*PhD research expenses for the project titled: How does the interaction between science and technology manifest in emerging and green technologies?*” (July 2024)

Alliance Manchester Business School PhD Scholarships (UoM), “*PhD scholarship for my research titled: How does the interaction between science and technology manifest in emerging and green technologies?*” (2021-25)

German Academic Exchange Service (DAAD), won DAAD summer PhD internship scholarship to University Magdeburg in Germany, supervised by Prof. Sándor Vajna (Summer 2015).

Teaching

Sept 2023-Jan 2024	Teaching assistant, Computer Science Department, The University of Manchester <ul style="list-style-type: none"> - Assisted in delivering the undergraduate Database System course - Marked assignments on database design - Supported lab sessions with Dr. Gareth Henshall
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Management Experience

Aug 2016- Jul 2017	Customer Service Specialist, Booking.com <ul style="list-style-type: none"> - Managed XML data files for internal systems and resolved complex customer issues in a multicultural environment. - Enhanced communication and problem-solving abilities by addressing intricate customer issues in a dynamic, international setting.
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Programming skills

R (proficient), Python (proficient; specific in econometrics and tidying data), SQL (novice)

Services and Memberships

Reviewer for Journal of Information Science; R&D Management Conference