

Jinyong (Edward) Sung

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Profile

- ✓ PhD Candidate (**UTS Research Excellence Scholarship recipient**) at UTS Institute for Sustainable Futures
- ✓ +10 years of work experience in **corporate finance and management consulting at Global energy/financial companies** and the **U.S. Top-tier/Ivy League education**; and Bilingual in English and Korean
- ✓ Core competencies¹: Energy/Financial modelling; Corporate Strategic Planning; Financial/Operational analysis

Education

University of Technology Sydney (UTS), Institute for Sustainable Futures Sydney, NSW, Australia
Ph.D. in Sustainable Futures – Energy (with a focus on Energy Modelling) 2025 (expected)
◦ Supervisors: *Principal Supervisor* **Xunpeng (Roc) Shi** and *Co-supervisor* **Sven Teske**
◦ Research cooperator/Advisor (for Econometrics): **Mengheng Li**
◦ Research field subject result: Econometrics (Grade: High Distinction)

Johns Hopkins University – MBA/MA Dual Degree
Johns Hopkins School of Advanced International Studies (SAIS) Washington, DC., USA
M.A. in Int'l Economics & Int'l Relations with a focus on Energy, Resources, & Environment May 2013
Johns Hopkins Carey Business School Baltimore, MD / Washington, DC., USA
MBA with a focus on Finance & Energy and Environment Dec 2012

Brown University, School of Engineering Providence, RI, USA
M.S. in Innovation Management and Entrepreneurship Engineering May 2008

Purdue University, College of Engineering West Lafayette, IN, USA
B.S. in Industrial Engineering (Major) & Mathematics (Minor) May 2007

Fields of interest

Energy Economics, Deep/Machine Learning, Applied Econometrics/Economics

Research

Working papers

- Sung, J., Shi, X., Teske, S., & Li, M. (2023). Short- and Long-term effects of key drivers in China's Natural Gas Market. *Submitted*
- Sung, J., Shi, X., Teske, S., & Li, M. (2024). A hybrid SARIMAX-LSTM model optimised by ANN for near-term forecasting: An application to China's Natural Gas consumption. *Submitted*
- Sung, J., Shi, X., Teske, S., & Li, M. (2024). A novel hybrid Prophet-SARIMAX model using scenarios for long-term projections: An application to China's Natural Gas consumption. *Submitted*

Work in progress

- Sung, J. (2024). China's 2060 Carbon Neutrality Pledge: The effects of changes in China's natural gas price on the Australian economy

Non-academic work

- Shi, X. & Sung, J. (2023). Australia's natural gas security policy spills over the region. [East Asia Forum post](#)

Awards

- Australian Government Research Training Program Stipend (**UTS Research Excellence Scholarship** for highly ranked, newly-commencing doctoral students) / Fee Offset Scholarship, UTS, 2022-2025
- **Vice Chancellor's Conference Fund 2024** of the 41 USAEE/IAEE Conference, UTS, 2024
- **Certificate of Appreciation** in recognition of high-performing work at SK advanced (SK Group's Chemical arm), 2017

¹ VETASSESS, an Australian government agency of vocational assessment, acknowledged my professional experience as management consulting skills.

- **SAIS Summer Internship Fund**, Johns Hopkins School of Advanced International Studies, 2012
- **Research Assistantship**, Johns Hopkins Carey Business School, 2010F, 2011S

Professional experience

UTS Institute for Sustainable Futures Interdisciplinary researcher	Sydney, Australia 2022-2024
◦ Developed energy models based on deep/machine learning and econometrics.	
EMS Trust (specializing in investing in education biz & commercial/residential properties) Investment Director & Co-founder	Sydney, Australia 2018-2021
◦ Developed investment opportunities; Developed the Trust's mgmt. system; and Operated the Trust.	
Mazars Global Infrastructure Finance Pty Ltd Project Manager, Model Build Team	Sydney, Australia 2017-2018
◦ Built and audited financial models for energy, infra., & PPP projects; and Delivered financial model training courses.	
SK Advanced (Chemical arm of SK Group; 3-party JV: APC(KSA Chem)-PIC(Kuwaiti Chem)-SK Gas) Strategy & Planning Manager, Management Planning Team	Seoul, S. Korea 2015-2017
◦ Devised the JV implementation plan (incl. valuation); and Worked closely with JV board members.	
SK Gas (Energy arm of SK Group, 3 rd Korean conglomerate/top 100 in Fortune Global 500) Strategy & Planning Manager (Employed by SK Global MBA recruitment), Corporate Strategy team	Singapore/Seoul, S. Korea 2013-2015
◦ Performed new biz development/strategy consulting projects: LPG trading, Power plant, Petrochem, & Renewables.	
Center for Climate and Energy Solutions (Top-tier U.S. think tank on Global Climate Change) Policy Analyst (MBA/MA Summer Intern), International Policy Research Team	Arlington, VA, USA 2012 (3 months)
◦ Conducted research on market-based policy instruments in the CO ₂ emission markets of Brazil, China, Africa, & Korea.	
Johns Hopkins Carey Business School Research Assistant to Mitsukuni Nishida	Baltimore, MD, USA 2010-2011
◦ Modelled the relationship between economic development and utility infra. growth in emerging countries in Asia.	
Hanwha Investment & Securities Associate, Investment Banking II Team (Employed by Hanwha Global recruitment)	Seoul, S. Korea 2008-2010
◦ Successfully completed 20 capital financing & 3 M&A (incl. backdoor listing) projects.	
NAVER Corporation (Korean premier IT company operating the nation's top search portal) Summer Intern (Employed by the U.S. Internship Recruitment), Market Strategy Team	Seoul, S. Korea 2007 (3 months)
◦ Assessed competitors' marketing strategies; and Evaluated the social impact of online advertising.	

Professional training and coaching experience

Financial modelling trainer, Mazars Global Infrastructure Finance Pty Ltd	
◦ Best Practice Project Finance Modelling	2017-2018
◦ Excel Diploma	2018
New employee trainer, SK Advanced	
◦ Understanding of the Propane De-Hydrogenation (Petrochemical) business	2015-2017

Presentations

The 41USAEE/IAEE Annual Conference in Baton Rouge, LA, USA; The 2 nd ISETS Annual Conference in Nanjing, China; The 34 th CESA Annual Conference in Adelaide, Australia; Seminars in Beijing Institute of Technology, China and Yonsei University, S. Korea Knowledge Sharing session in UTS ISF; Presentation for PhD Stage 2 assessment (UTS)	2024
Presentation for PhD Stage 1 assessment (UTS), Knowledge Sharing session in ACRI	2023
Knowledge Sharing session in UTS Australia-China Relations Institute (ARCI)	2022

Additional information

Skills: **Python - Deep/Machine Learning (Master)**, MS Excel/VBA, Matlab, MS PowerPoint, GAMS, Power BI, HTML

Visa status: Australian permanent resident

References available upon request