

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, 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. October 2023 **Submitted** [PDF](#)

Work in progress

- Sung, J., Shi, X., Teske, S., & Li, M. (2024). Short-term forecasting of Chinese Natural Gas consumption using the hybrid SARIMAX-LSTM model optimized by ANN.
- Sung, J., Shi, X., Teske, S., & Li, M. (2024). Long-term projection of Chinese Natural Gas consumption in scenarios using a novel hybrid Prophet-SARIMAX approach.

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, University of Technology Sydney, 2022-2025

Certificate of Appreciation in recognition of high-performing work at SK advanced (SK Group's Chemical arm), 2017

SAIS Summer Internship Fund, Johns Hopkins School of Advanced International Studies, 2012

Research Assistantship, Johns Hopkins Carey Business School, 2010F, 2011S

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

Professional experience

EMS Trust (specializing in investing in education biz & commercial/residential properties) Investment Director & Co-founder (Full-time "FT")	Sydney, Australia 2018-2021
◦ Developed investment opportunities; Developed the Trust's mgmt. system; and Operated the Trust.	
Mazars Global Infrastructure Finance Pty Ltd Assistant/Project Manager (FT), 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 (FT), 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 (FT; 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.	
Choong Ang Biotech Co., Ltd Equity Financing Project Manager (FT), Strategic Planning Team	Seoul, S. Korea 2009-2010
◦ Managed the development of equity financing strategies; and Executed a \$13M paid-in capital increase.	
Hanwha Investment & Securities Associate (FT), Investment Banking II Team	Seoul, S. Korea 2008-2009
◦ 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.	

Teaching experience

Financial modelling trainer, Mazars Global Infrastructure Finance Pty Ltd	
◦ Best Practice Project Finance Modelling	2018-2019
◦ Excel Diploma	2018
New employee trainer, SK Advanced	
◦ Understanding of the Propane De-Hydrogenation (Petrochemical) business	2015-2017

Presentations

Presentation for PhD Stage 2 assessment (UTS)	2024
Presentation for PhD Stage 1 assessment (UTS), Meeting for sharing research interests in Australia-China Relations Institute (UTS)	2023
Meeting for sharing research interests in Australia-China Relations Institute (UTS)	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