

# Jinyong (Edward) Sung

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## Profile

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- ✓ 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 competencies<sup>1</sup>: Energy/Financial modelling; Corporate Strategic Planning; Financial/Operational analysis

## Education

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- University of Technology Sydney (UTS)**, Institute for Sustainable Futures Sydney, NSW, Australia  
**Ph.D.** in Energy Futures (Field of specialization: Energy Economics and Energy Policy) 2025 (expected)
- Supervisory panel: *Principal Supervisor* **Xunpeng (Roc) Shi** (Australia-China Relations Institute), *Co-Supervisor* **Sven Teske** (Institute for Sustainable Futures, Energy), and *External Supervisor* **Mengheng Li** (Economics Discipline Group)
  - 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

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Energy Economics and Energy Policy, Deep/Machine Learning, Applied/Financial Econometrics, Applied Economics

## Research

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### 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). Chinese Natural Gas Phase-Out Pathways: A Novel Hybrid Prophet-SARIMAX Approach to Achieve Net Zero. *Submitted*

### Work in progress

- Sung, J. (2024). China's 2060 Carbon Neutrality Pledge: The dynamic effects of changes in China's natural gas consumption 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

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

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

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

## **Professional experience**

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- EMS Trust (specializing in investing in education biz & commercial/residential properties) Sydney, Australia  
Investment Director & Co-founder 2018-2021
- Developed investment opportunities; Developed the Trust's mgmt. system; and Operated the Trust.
- Mazars Global Infrastructure Finance Pty Ltd Sydney, Australia  
Project Manager, Model Build Team 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) Seoul, S. Korea  
Strategy & Planning Manager, Management Planning Team 2015-2017
- Devised the JV implementation plan (incl. valuation); and Worked closely with JV board members.
- SK Gas (Energy arm of SK Group, 3<sup>rd</sup> Korean conglomerate/top 100 in Fortune Global 500) Singapore/Seoul, S. Korea  
Strategy & Planning Manager (Employed by SK Global MBA recruitment), Corporate Strategy team 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) Arlington, VA, USA  
Policy Analyst (MBA/MA Summer Intern), International Policy Research Team 2012 (3 months)
- Conducted research on market-based policy instruments in the CO<sub>2</sub> emission markets of Brazil, China, Africa, & Korea.
- Johns Hopkins Carey Business School Baltimore, MD, USA  
Research Assistant to Mitsukuni Nishida 2010-2011
- Modelled the relationship between economic development and utility infra. growth in emerging countries in Asia.
- Hanwha Investment & Securities Seoul, S. Korea  
Associate, Investment Banking II Team (Employed by Hanwha Global recruitment) 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) Seoul, S. Korea  
Summer Intern (Employed by the U.S. Internship Recruitment), Market Strategy Team 2007 (3 months)
- Assessed competitors' marketing strategies; and Evaluated the social impact of online advertising.

## **Professional training and coaching experience**

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### **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**

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- The 41USAAE/IAEE Annual Conference in Baton Rouge, LA, USA; The 2<sup>nd</sup> ISETS Annual Conference in Nanjing, China; The 34<sup>th</sup> 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**

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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