

Soh Young In

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EDUCATION

Stanford University, Ph.D. in Civil and Environmental Engineering, 2019

Thesis Title: *Catalyzing Private Capital in Clean Energy*

Thesis Committee: Raymond Levitt, Ashby Monk, John Weyant, James Sweeney, William Barnett

Stanford University, M.A. in International Policy Studies, 2015

Academic Concentration: Energy, Environment, and Natural Resources

Columbia University, B.A. in Economics and Statistics, 2008

Honor's Thesis Title: *Analysis of Greenhouse Gas Emission: In Search of Future Emission Paths*

RESEARCH FUND & GRANTS

- 2020** **Research Fund on "Roles of Corporate Capital in Driving Clean Energy Impact"**
Google
 - 2020** **Research Grant on "Assessing Climate Risk in Energy Infrastructure Investments"**
ENGIE and Center for Integrated Facility Engineering (CIFE) at Stanford University
 - 2020** **Research Fund on "Assessing Climate Change Risk by Stress Testing for Financial Resilience"**
Bank of Korea
 - 2018** **Research Fund on "An Early-Stage Aligned Intermediary to Enhance Flow of Private Capital into Energy Companies"**
The United States Department of Energy (DOE) and Activate Energy
 - 2017** **Research Grant on "Catalyzing Long-term Private Capital into Clean Energy Innovation"**
Stanford Precourt Institute for Energy
 - 2017** **Research Grant on "Clean Energy Finance"**
Bank of America
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AWARDS & HONORS

- 2018** **Emerging Scholar Award on "Climate Change: Impacts and Responses"**
Common Ground Research Networks
- 2017** **Clean Energy Education & Empowerment (C3E) Award**
DOE, MIT Energy Initiative and Stanford Precourt Institute for Energy
- 2017** **Precourt Fellowship at Behavior, Energy & Climate Change Conference**
American Council for an Energy-Efficiency Economy, Berkeley Energy and Climate Institute (BECEI), and Stanford Precourt Energy Efficiency Center
- 2016** **Research Award on "Aligning Investment Portfolios with a Low Carbon Economy"**
United Nations Environment Programme Financial Initiative (UNEP FI)

ACADEMIC APPOINTMENTS & PROFESSIONAL EXPERIENCE

Global Projects Center (GPC), Stanford University Stanford, USA
Precourt Institute for Energy, Stanford University (Joint Affiliation) 2019-present

Research Director on Sustainable Finance

Leading research projects on:

- Risk and return opportunities of environmental, social and governance (ESG) integration
- ESG disclosure and communication
- Application of advanced data analytics to environmental risk assessment and application
- Climate risk exposure of financial portfolios and systems
- Clean energy innovation investment ecosystem: new financial intermediaries in clean energy

The Ministry of Economy and Finance, South Korea Seoul, Korea
Advisory Committee 2021-present

- Advise on plan, development, implementation and evaluation of Korea's Green New Deal policy

Boston Consulting Group Hooksett, USA
Independent Consultant, BCG Digital Ventures 2020-present

- Draft a concept note on a new method for carbon emission reduction quantification and a design of a new carbon credit trading mechanism

Korea Development Bank (KDB) Seoul, Korea
Manager, Global Finance Department 2009-2015

- Managed \$2.5 billion infrastructure project financing in Asia, Latin America, Europe and Africa
- Managed corporate finance of \$69 million for domestic small and medium enterprises (SMEs)
- Led financial modeling, financial contracts, risk analysis, and credit enhancement
- Developed innovative finance programs to serve development goals
- Developed strategic policies with multilateral development banks including World Bank Group (IFC, MIGA), Asian Development Bank (ADB), and Development Bank of Latin America (CAF)

United Nation Development Programme (UNDP) New York, USA
Consultant, UNDP team on Post-2015 2013

- Consulted the development progress on UN Millennium Development Goals (MDGs) in Asia Pacific, and drafted priorities for post-2015 UN projects to Post-MDG coordinators

The Earth Institute, Columbia University Palisades, USA
Researcher, Center for International Earth Science Information Network 2007-2008

- Assisted the publication of the Thematic Guide to climate data from the Intergovernmental Panel on Climate Change (IPCC) in collaboration with Socioeconomic Data and Applications Center at NASA

PUBLICATIONS

Peer-Reviewed Publications

In, S.Y., Monk, A., & Knox-Hayes, J. (2020). Financing Energy Innovation: The Need for New Intermediaries in Clean Energy. *Sustainability*, 12(24), 10440.

In, S. Y., Rook, D., & Monk, A. (2019). Integrating Alternative Data (Also Known as ESG Data) in Investment Decision Making. *Global Economic Review*, 48(3), 237-260.

In, S. Y., Casemiro, L., & Kim, M. J. (2017). A Decision Framework for Successful Private Participation in the Airport Sector. *Journal of Air Transport Management*, 62, 217-225.

Non-Peer-Reviewed Publications, Invited Chapters or Other Publications

Holland, H., Dixon, A., In, S.Y., Monk, A., & Sharma, R. (2021). Mobilizing Institutional Investor Capital for Climate-Aligned Development. *OECD Development Policy Papers*, 35.

Monk, A., & In, S.Y. (2020). Financial Innovation for Energy Innovation. *The Brown Journal of World Affairs*, Brown University.

Moudrak, N., Bakos, K., Eyquem, J., O'Reilly, H., Monk, A., & In, S. Y. (2020). *Institutional Investors Find Alpha in Climate Risk Matrices: Global Survey Finds*. Intact Centre on Climate Adaptation, Global Risk Institute and Stanford Global Project Center.

In, S.Y., Monk, A., & Levitt, R. (2017). An Integrated Control Tower: Coordinating and Unlocking Investment Capital for Clean Energy. *Clean Energy Finance Forum 2017 Solution Paper*, Precourt Institute for Energy, Stanford University.

In, S.Y., Park, K.Y., & Monk, A. (2017). Is 'Being Green' Rewarded in the Market? An Empirical Investigation of Decarbonization Risk and Stock Returns. *Energy Forum*, Special Issue 2017, p46-48. International Association for Energy Economics.

Kim, M. J., Singham, S., In, S.Y., & Bennon, M. (2015). Global Urbanization Trend and Challenges Facing Mature Mid-Size Cities: The Case of Busan, South Korea. *White paper*, Stanford Global Projects Center, Stanford University.

In, S. Y. (2014). Do Export Credit Agencies Benefit the Economy?. *Stanford International Policy Review*. Spring 2014 Issue. Ford Dorsey Program in International Policy Studies, Stanford University.

Working Papers

In, S.Y., Peterman, A., & Eccles, R. G. Roles of Corporate Capital in Driving Clean Energy Impact. Available at SSRN 3779234 (sponsored research by Google)

In, S.Y., Monk, A., & Lee, J. Drivers of Successful Exit: Experience from the Early-Stage Hard-Tech Energy Investment in the US Market. Available at SSRN 3726781. (sponsored research with the US DOE)

In, S.Y., and Park, K.Y. Climate Stress Testing and Financial Stability. (sponsored research with the Bank of Korea)

In, S.Y., Park, K.Y., & Eccles, R. G. What Does Carbon Data Tell You (or Not)?. Available at SSRN 3754098 [under review].

In, S.Y., Eccles, R. G., & Lee, Y. J. Looking Back, Looking Forward: Scientometric Analysis on 47 Years of Sustainability Research. Available at SSRN 3693254 [under review].

In, S. Y., Weyant, J. P., & Manav, B. Pricing Climate-Related Risks of Energy Investments. Available at SSRN 3736415 [under review].

In, S. Y., Weyant, J. P., Manav, B., Venereau, C., & Rodriguez, L. E. Pricing Climate-Related Risks of Energy Investments: Three Energy Assets. Available at SSRN 3779228.

In, S.Y., Park, K.Y., & Monk, A. Is 'Being Green' Rewarded in the Market? An Empirical Investigation of Decarbonization Risk and Stock Returns. Available at SSRN 3020304 [under review]. **This research won research awards from UNEP FI and the US DOE**

In, S.Y., & Park, K.Y. "Economics of Climate Change. Available at SSRN 3704761 [under review].

Work in Progress

In, S.Y., & Schumacher, K. Carbonwashing: A New Type of ESG Greenwashing in a Post-Paris Climate Agreement World.

In, S.Y., Rogers, J., Monk, A., & Rook, D. The Value of Long-Term Investing: Portfolio Resilience and Corporate Innovation Introduction (in collaboration with Long-Term Stock Exchange [LTSE])

In, S.Y., I. Monasterolo, & Marco Roberto Assessing Risks and Opportunities of Energy Investment Portfolios under Climate-Aligned Policy Scenarios.

In, S.Y., & Yoon, A. Practitioners' Guide to Sustainable Investing.

MEDIA MENTIONS

Havard, H. and J.Y. Lin (2019) "[Disrupting Multilateral Climate Finance](#)," *Project Syndicate*.

Havard, H. and J.Y. Lin (2018) "[How to Mobilize Private Capital for Climate Action](#)," *Project Syndicate*.

Edmund, A.L. (2018) "[Wall Street Rewards Firms with Light Carbon Footprints](#)," *Stanford Engineering Magazine*, 44, Research and Ideas.

Rogers, A. (2018) "[Apparently We Can Let the Stock Market Fight Climate Change](#)," *WIRED Magazine*
Sustainable Insight Capital Management (2018) *Sustainable Insight*, [Ed. #231](#).

Mattison, R. (2018) "[Can Being Green Deliver Enhanced Returns?](#)" *Indexology by S&P Dow Jones Indices*.

CHAired SYMPOSIA

Stanford Investor Forum, Stanford, USA. November 2019

Moderator: Panel Discussion on "Energy Sector Investing from Legacy to Renewables"

Stanford Investor Forum, Stanford, USA. November 2018

Moderator: Panel Discussion on "Energy Investing from Fossil Fuels to Renewables"

International Finance and Banking Society (IFABS) Conference, Porto, Portugal. July 2018

Session Chair: "Environmental and Green Finance"

International Finance and Banking Society (IFABS) Asia Conference, Ningbo, China. August 2017

Session Chair: "Asset Pricing: Information, Diversification and Decarbonization"

Engineering Project Organization Conference, Stanford Sierra Camp, USA. June 2017

Session Chair: "Megaproject Management"

Session Chair: "EPOS and Megaprojects - Past Work and Future Directions"

Engineering Project Organization Society Early Career Forum, Interactive Webinar, February 2017

Co-chair: "Creating and Sustaining Industry Partnerships"

CONFERENCE PRESENTATIONS

Principles for Responsible Investment (PRI) Academic Network Conference, “Bridging the Gap between Investors and Academics,” Paris, France. September 2019

Global Research Alliance for Sustainable Finance & Investment (GRASFI), Annual Conference, Oxford, UK. September 2019

International Conference on Energy Research & Social Science (ERSS), “Energy and Society in Transition,” Tempe, USA. May 2019

International Finance and Banking Society (IFABS) Conference, “Ten Years After the 2008 Financial Crisis – Where Are We Heading Now?” Porto, Portugal. July 2018

California Association of Public Retirement Systems Investment Officers’ Roundtable, Keynote Speaker, Oakland, USA. June 2018

Engineering Project Organization Conference (EPOC), “(Re)Organizing in an Uncertain Climate,” Brijuni, Croatia. June 2018

Global Finance Journal Meeting (co-hosted by Development Bank of Japan,) “CSR, the Economy, and Financial Markets,” Tokyo, Japan. November 2017

International Finance and Banking Society (IFABS) Asia Conference (co-hosted by NYU and Univ. of Nottingham), “Financial Innovation, Stability and Sustainable Growth,” Ningbo, China. August 2017

Stanford Institute for Theoretical Economics (SITE) Workshop, “New Thinking about Economic Challenges in the Design and Implementation of Programs to Stabilize the Climate,” Stanford, USA. August 2017

International Association for Energy Economics (IAEE) Conference on “Meeting the Energy Demands of Emerging Economics, Implication for Energy and Environmental Markets,” Singapore. June 2017

Engineering Project Organization Conference, held in conjunction with International Megaproject Workshop), “Theory Meets Practice,” Stanford Sierra Camp, USA. June 2017

Engineering Project Organization Conference, “Building Resilience,” Cle Elum, USA. June 2016

SELECTED CONFERENCE POSTER PRESENTATIONS

Stanford Energy Week, Stanford University, USA. January 2018

Clean Energy Education & Empowerment (C3E) Symposium, Massachusetts Institute of Technology (MIT), USA. November 2017, *Won the C3E Poster Award*

Young Environmental Scholars Conference, Stanford University, USA. November 2017

Engineering Project Organization Conference, Stanford Sierra Camp, USA. June 2017

ON-CAMPUS PROFESSIONAL & EDUCATIONAL WORKSHOPS

Stanford Sustainable Finance and Investment Monthly Seminar Series, Chair, Stanford, USA. 2020-2021

Stanford Annual Long-Term Investor Affiliate Workshop, Presenter, Stanford, USA. November 2018

Stanford Precourt Institute for Energy Annual Workshop, Presenter, Stanford, USA. October 2018

Energy@Stanford & SLAC, Panelist on Energy Research for the 21st Century, Stanford, USA. September 2018

Stanford Energy Seminar, Panelist on Clean Energy Finance, Stanford, USA. November 2017

Stanford Annual Long-Term Investor Affiliate Workshop, Presenter, Stanford, USA. November 2017

Stanford Precourt Institute for Energy Annual Workshop, Presenter, Stanford, USA. October 2017

TEACHING EXPERIENCE

Sustainable Finance and Investment Seminar, Stanford University	Stanford, CA
<i>Instructor</i>	Fall 2020-21, Spring 2019-20
Undergraduate Research in Civil and Environmental Engineering, Stanford University	Stanford, CA
<i>Instructor (Research Supervisor)</i>	Winter 2020-21, Winter 2019-20
Independent Study in Civil Engineering, Stanford University	Stanford, CA
<i>Instructor (Research Supervisor)</i>	Winter 2019-20
Global Project Finance, Stanford University	Stanford, CA
<i>Teaching Team</i>	Winter 2014-15, 15-16, 16-17
Global Infrastructure Project Finance Workshop, University of San Francisco Energy Systems Management Program	San Francisco, CA
<i>Lecturer</i>	May 2018
Infrastructure Finance and Governance, Stanford University	Stanford, CA
<i>Course Coordinator for Professor Raymond Levitt</i>	Fall 2016-17
The Politics of Private Sector Development, Stanford University	Stanford, CA
<i>Teaching Assistant for Professor Francis Fukuyama</i>	Spring 2015-16

RESEARCH COMMUNITY MEMBERSHIP

Organizing Committee, Global Research Alliance for Sustainable Finance and Investment (GRASFI)

Member, Principles for Responsible Investing (PRI) Academic Network

Member, American Economic Association (AEA)

Member, International Association for Energy Economics (IAEE)

Organizing Committee, Engineering Project Organization Society (EPOS)

ADDITIONAL SKILLS

Programming Languages: STATA, R, and Python

Languages: Korean (native), English (fluent) and Japanese (fluent)