

Min-kyeong (Min) Cha

School of Public Policy
Georgia Institute of Technology
(+1) 404-345-8928

✉ mcha39@gatech.edu
🌐 homepage
🌐 linkedin

EDUCATION

Georgia Institute of Technology <i>Ph.D. Public Policy, Major: Energy and Environmental Policy</i>	<i>Atlanta, GA, U.S.A.</i> 2025 (expected)
Georgia Institute of Technology <i>M.S. Statistics</i>	<i>Atlanta, GA, U.S.A.</i> 2024 (expected)
Seoul National University <i>M.S.E. Technology Management, Economics, and Policy (TEMEP)</i>	<i>Seoul, Korea</i> 2019
Pohang University of Science and Technology (POSTECH) <i>B.S. Chemical Engineering (Summa Cum Laude)</i>	<i>Pohang, Korea</i> 2017
University of Waterloo <i>Exchange student program (Chemical Engineering major)</i>	<i>Waterloo, ON, Canada</i> Fall 2014

RESEARCH INTERESTS

Climate Change Policy, Renewable Energy Policy, Clean Energy Transition, Adoption of Renewable Energy, Energy Consumption Behavior

PUBLICATIONS

- [6] **Cha, M.K.**, Struthers, C., Brown, M., Kale, S. & Chapman, O. (2024). Toward residential decarbonization: Analyzing social-psychological drivers of household co-adoption of rooftop solar, electric vehicles, and efficient HVAC systems in Georgia, U.S. *Renewable Energy*, 120382.
- [5] An, B. Y., M. Butz, A., **Cha, M. K.**, & Mitchell, J. L. (2023). Following neighbors or regional leaders? Unpacking the effect of geographic proximity in local climate policy diffusion. *Policy Sciences*, 1-44.
- [4] Brown, M. A., Kale, S., **Cha, M. K.**, & Chapman, O. (2023). Exploring the willingness of consumers to electrify their homes. *Applied Energy*, 338, 120791.
- [3] Brown, M. A., Hubbs, J., Gu, V. X., & **Cha, M. K.** (2021). Rooftop solar for all: Closing the gap between the technically possible and the achievable. *Energy Research & Social Science*, 80, 102203.
- [2] Park, H., **Cha, M.K.**, & Lee, H. (2020). Cross-National Comparative Study on the Innovation Efficiency of the Biopharmaceutical Industry. *The Korean Journal of Health Economics and Policy*, 26, no.2, 25-57.
- [1] Dalton, T. & **Cha, M.K.** (Feb 23rd, 2016). South Korea's Nuclear Energy Future. *The Diplomat*.

WORKS IN PROGRESS

Dissertation Chapters

Solar rebound without solar panels? Unraveling consumption behaviors change in community solar programs. Under review in *Journal of Policy Analysis and Management (JPAM)* (Lead Author, with Matisoff, D.).

When prices soar: Natural gas demand and fuel switching under extreme market conditions (with Brewer, D. and Wichman, C.)

Wired for solar without installation: Understanding utility adoption of community solar projects (Lead Author, with Matisoff, D.)

Other Projects

Induced innovation revisited: Development of U.S. battery storage technology

Knowledge is power? Information, partisan cleavages, and support for energy infrastructure. Revised & Resubmitted to *Energy Research & Social Science* (with Struthers, C. and Brown, M.)

What drives energy suppliers and consumers to adopt heat pumps and thermal storage technology? (with Greenlee, E. and Duffy, A.)

Optimizing policy design to maximize the adoption of rooftop solar (with Brown, M.)

The quest for strategies of social control: From state policy documents for autonomous vehicles (with Kingsley, G., Hicks, D., Isett, K., Souweidane, N.)

HONORS & AWARDS

Brook Byers Institute for Sustainable Systems (BBISS) Graduate Fellow <i>Georgia Institute of Technology</i>	2023-2025
William H. Read Award in Public Policy, School of Public Policy <i>Georgia Institute of Technology</i>	2024
Berkeley/Sloan Summer School in Environmental and Energy Economics Travel Fellowship <i>UC Berkeley</i>	2023
2nd Place Poster Presentation Award <i>Atlanta Conference on Science and Innovation Policy</i>	2023
Wallace O. Keene ASPA Conference Scholarship <i>American Society for Public Administration (ASPA)</i>	2023
Fulbright Scholarship <i>Fulbright Program</i>	2020-2022
The National Presidential Science Scholarship <i>Korea Student Aid Foundation</i>	2012-2016

CONFERENCES & SUMMER SCHOOL

Conference Presentations

1. Solar rebound without solar panels? Unraveling consumption behaviors change in community solar programs	
Association for Public Policy Analysis and Management (APPAM) Annual Conference	Nov. 2024
Camp Resources	Aug. 2024
Georgia Tech EPICenter Energy Research Talks	Apr. 2024
2. When prices soar: Natural gas demand and fuel switching under extreme market conditions	
Southeastern Workshop on Energy & Environmental Economics & Policy (SWEEEP)	Nov. 2024
3. Optimizing policy design to maximize the adoption of rooftop solar	
Public Management Research Conference (PMRC)	Jun. 2024
Association for Public Policy Analysis and Management (APPAM) Annual Conference	Nov. 2023
2023 Korea-U.S. Policy Dialogue: Towards Carbon Neutrality	Oct. 2023
4. Induced innovation revisited: Development of U.S. battery storage technology	
Association of Environmental and Resource Economists (AERE) Summer Conference	Jun. 2023
Atlanta Conference on Science and Innovation Policy	May. 2023

5. The quest for strategies of social control: From state policy documents for autonomous vehicles

Atlanta Conference on Science and Innovation Policy May. 2023

American Society for Public Administration (ASPA) Annual Conference Mar. 2023

Summer School

Berkeley/Sloan Summer School in Environmental and Energy Economics Aug. 2023

RESEARCH & PROFESSIONAL EXPERIENCE

Climate and Energy Policy Laboratory (CEPL) May 2021 – Aug. 2023
Graduate Research Assistant & Teaching Assistant Atlanta, U.S.A

- Participated in research projects, including finding drivers of adoption and co-adoption of renewable energy technologies, and supported the Drawdown Georgia
- Teaching assistant for the class PUBP/ISYE 6701 ‘Energy Technology and Public Policy’ (Spring 2023)

Biotech Policy Research Center Jun. 2019 – Jul. 2020
External Reporter for BioInglobal (website) Daejeon, Korea

- Wrote short reports on various biotech policies and issues, such as China’s biopharmaceutical strategy or Alzheimer’s Disease therapeutics

Organisation for Economic Cooperation and Development (OECD) Jan. 2019 – Jul. 2019
Intern & Consultant Paris, France

- Participated in several projects and contributed to the report on collaborative platforms, knowledge transfer, and commercialization policies
- Conducted case studies on science and technology policy initiatives in Korea and contributed to the report "Governance of Science and Technology Policies"

Seoul National University Aug. 2017 – Dec. 2018
Graduate Research Assistant & Teaching Assistant Seoul, Korea

- Teaching Assistant for two classes: ‘Management for Engineers’ and ‘Patent and Technology Entrepreneurship’
- Assisted the project "Tasks and Challenges of Korea Biohealth" by NAEK (National Academy of Engineering of Korea)

SMART Laboratory, POSTECH Mar. 2016 – Dec. 2016
Undergraduate Researcher Pohang, Korea

- Researched the improvement of biomarker detection sensitivity using gold nanoparticles and wrote a graduation report

Carnegie Endowment for International Peace (CEIP) Aug. 2015 – Dec. 2015
Intern at Nuclear Policy Program and Asia Program Washington D.C., U.S.A

- Participated in several conferences as a staff member
- Published the article about social awareness and governmental policy of nuclear power plants in Korea with the supervisor

Presidential Advisory Council on Science & Technology Jul. 2011
Representative of high school students in Korea Seoul, Korea

- Presented on the importance of Research and Education and science education to Korea’s former President Lee Myung-bak and other governmental officials at the Presidential Blue House

SKILLS & ABILITIES

Languages: English (fluent), Korean (native), French (DEL F B1), Japanese (intermediate)**Computer Skills:** R, Stata, Python, GAMS**LEADERSHIP**

Public Policy Graduate Student Association PhD representative (Spring 2022), Georgia Tech

Department of Chemical Engineering Student Association Head of Planning (Spring 2014), POSTECH