Jun Ho Choi

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EDUCATION

Columbia University   New York, NY
Ph.D. in Sustainable Development   Sep 2022 – Current

University of Chicago   Chicago, IL
Graduate Student-at-Large Program   Apr 2021 – Jun 2022
M.A. in Computational Social Science, Economics Concentration   August 2020
Thesis Advisor: Professor Pablo Peña

Princeton University   Princeton, NJ
A.B. in Economics, *with honors (cum laude)*   June 2018
Certificate Program in Statistics and Machine Learning
Thesis Advisor: Professor Nobuhiro Kiyotaki

WORKS IN PROGRESS

"Hidden Environmental and Climate Footprints of Frontier AI: Evidence from Google's Gemini Training."
    Presented at: CU Environmental and Resource Economics Seminar (Sep 2025)

(With Douglas Almond and Anna Papp) "Bitcoin Bites: Ambient pollution and labor market outcomes in
    Pennsylvania."
    Presented at: Columbia SDEV Colloquium (Oct 2024), the Chinese University of Hong Kong (Jan 2025),
    Virtual Sustainable Development Seminar (Mar 2025), NBER NY, University of Chicago, The Workshop
    in Environmental Economics and Data Science (Apr 2025), University of Tokyo, and Seoul National University
    (June 2025)

"Weather innovations and weathered roads."

WORKING PAPERS

Björkegren, Daniel, **Jun Ho Choi**, Divya Budihal, Dominic Sobhani, Oliver Garrod, and Paul Atherton. 2025.
    "Could AI Leapfrog the Web? Evidence from Teachers in Sierra Leone." [Link]
    Presented at: NBER Summer Institute 2025 Digital Economics and Artificial Intelligence.

PUBLICATIONS

Choi, Jun Ho, Oliver Garrod, Paul Atherton, Andrew Joyce-Gibbons, Miriam Mason-Sesay, Daniel Björkegren.
    2023. "Are LLMs useful in the poorest schools? TheTeacher.AI in Sierra Leone." *NeurIPS'23 Workshop on
    Generative AI for Education.* [Link]

Depsky, Nicholas, Ian Bolliger, Daniel Allen, **Jun Ho Choi**, Michael Delgado, Michael Greenstone, Trevor Houser,
    Solomon Hsiang, Robert E. Kopp. 2023. "DSCIM-Coastal v1.1: an open-source modeling platform for global
    impacts of sea level rise." *Geoscientific Model Development* 16: 4331–4366. [Link]

Peña, Pablo A., and **Jun Ho Choi**. 2021. "Female representation among notable people born in 1700–2000."
    Economics Letters 206: 1-4. [Link]

RECENT RESEARCH ASSISTANCE EXPERIENCE

School of International and Public Affairs, Columbia University   New York, NY
PhD Research Assistant   May 2025 – current
Supervisor: Jeffrey Shrader
  ∘ Conducting ML, econometric, and simulation tasks using financial and weather forecast data

School of International and Public Affairs, Columbia University   New York, NY
PhD Research Assistant   Aug 2023 – Dec 2024
Supervisor: Daniel Björkegren
  ∘ Conducted LLM-related tasks to help assess how generative AI can help teachers in low-income countries

Recent research assistance experience (continued)

Climate Impact Lab (CIL) & Energy Policy Institute, University of Chicago   Chicago, IL
Research Professional, Pre-doctoral Fellow   Sep 2020 – Jul 2022
Supervisors: Professors Solomon Hsiang and Michael Greenstone, and Dr. Ian Bolliger
  ○ Assessing global impacts of 21st century sea level rise and tropical cyclones, and social cost of carbon

Recent Teaching Experience

Climate Finance (Professors José Scheinkman and Harrison Hong)   Spring 2025
Applying Machine Learning (MA-level; Professor Daniel Björkegren)   Spring 2024
Computing in Context (Professor Adam Cannon)   Fall 2023

Awards, Grants, and Fellowships

Doctoral Fellowship, Sustainable Development, Columbia University   Sep 2022 – Current
Fellowship for Research in Pre-Doctoral Fellowship, Energy Policy Institute at the   Sep 2020 – Jul 2022
University of Chicago
Merit-based scholarship (maximum), University of Chicago   Sep 2018 – Jun 2020

Other Information

Programs and Languages
  Experienced: Python, R, Stata, Matlab, SQL, SPARQL, MS Office, Git, LaTeX, ArcGIS, and Shell Scripting
  Beginner: ENVI, Julia, Java, Mathematica, HTML, Stan, and Django
Languages: Korean (native), English (fluent), Standard Chinese (basic)