

DEBAMANYU DAS

Department of Economics
University of Massachusetts Amherst
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EDUCATION

Ph.D. Economics, University of Massachusetts Amherst	Summer 2024 (<i>expected</i>)
M.A. Economics, University of Massachusetts Amherst	2020
M.Sc. Economics, Indira Gandhi Institute of Development Research, Mumbai, India	2016
B.Sc. Economics (Honours) with Mathematics and Statistics, Asutosh College, University of Calcutta, Kolkata, India, <i>First Class, Rank- First</i>	2014

FIELDS

Environmental Policy, Political Economy, Economic Development, Macroeconomics

JOB MARKET PAPER

Role of the State in the Energy Transition: The Case of China and Lessons for the United States. [Link](#).

Abstract: The energy transition hinges on the uninterrupted supply of critical minerals for low-carbon products such as electric vehicles. China currently dominates the supply chains of minerals required for the rechargeable batteries used in electric vehicles. How can we explain China's dominance in the critical minerals industry? Delving into historical state records and planning documents dating back to the 1980s, I find the answer lies in state-driven industrial policies. Using a novel dataset of mining-related acquisition deals, I study various tactics used by China for capturing mineral supply chains. These tactics include i) offering premium bids, ii) directly purchasing majority stakes, iii) providing debt relief to distressed economies, and iv) investing in foreign energy, mining, transport, and infrastructure projects. While many of these tactics of Chinese corporations may appear to be market-driven, the state has laid the foundations for them by establishing strong links with mineral-rich nations. I also analyze data on state funding and innovation and show how China has outpaced its competitors. The Chinese state has created an environment in which private corporations can harness technological innovations and adapt them for practical use. In this paper, I also present policy proposals for the U.S. to reduce its current dependence on China for critical minerals, and advocate for the U.S. state to heighten its role in shaping domestic industrial policy and in promoting international cooperation.

PUBLICATIONS

Published articles

Ghosh, J., Chakraborty, S., & Das, D. (2022). Climate imperialism in the twenty first century. *Monthly Review*, 74(3), 70-85. [Link](#).

Das, D., Chakraborty, S., & Ghosh, J. (2022). Climate change mitigation strategies: impacts and obstacles in low- and middle- income countries. *Earth4All: Deep Dive paper 7*. [Link](#).

Kaikar, N., Dutta, G., Das, D., & Banerjee, S. (2021). Time-of-use pricing of electricity in monopoly and oligopoly. *Opsearch*, 58(1), 1-28. [Link](#).

Book chapters

Das, D. (2023). Marxian crisis theory, in *Elgar Encyclopedia of Financial Crises*, ed. Sara Hsu. Edward Elgar. [Link](#).

Working papers

Chandrasekhar, C.P., Ghosh, J., & **Das, D.** (2023). Paying with Austerity: The Debt Crisis and Restructuring in Sri Lanka. Political Economy Research Institute, Working Paper 590. [Link](#).

Das, D., & Roy, S. (2020). Zombie prevalence and survival. Political Economy Research Institute, Working Paper number 531. [Link](#).

Das, D., & Das, V. (2016). The Pink Revolution in India: A Gravity Model Analysis. Available at SSRN. 2919382. [Link](#).

Das, D. (2016). Trends and Analysis of Child Anthropometric Indices for India. Available at SSRN 2929909. [Link](#).

Other published articles in media

Das, D., & Chakraborty, S. (2022). How is climate change mitigation affecting low- and middle-income countries? *The Club of Rome*. [Link](#).

Ghosh, J., & **Das, D.** (2022). Hidden carbon subsidies will destroy us. *Project Syndicate*. [Link](#).

Das, V.K., & **Das, D.** (2017). Pink Revolution: Why the Government should boost the bovine meat industry. *The Wire*. [Link](#).

RESEARCH EXPERIENCE

Political Economy Research Institute, University of Massachusetts Amherst

Research Assistant to Jayati Ghosh and C. P. Chandrasekhar, Open Society Foundations project on Reforming the Global Economic and Financial Architecture for Development Spring, Summer 2023

Research Assistant to Jayati Ghosh, The Club of Rome projects related to climate mitigation and adaptation strategies Spring 2022

Indian Institute of Management Ahmedabad

Summer 2015

Research Intern to Goutam Dutta, working on mathematical modelling for time-of-using pricing of electricity in monopoly and oligopoly

TEACHING INTERESTS

Macroeconomics (Introductory/Intermediate), Microeconomics (Introductory), Money and Banking, Economics of Big Data, Debt Economics, Economic Development, Environmental Economics, Environmental Policy

TEACHING EXPERIENCE

Instructor

University of Massachusetts Amherst

Economics in the Age of Big Data and the Internet: Liars' Economics (online) Summer 2022

Economics in the Age of Big Data and the Internet: Liars' Economics Spring 2021, Fall 2021

Money and Banking (online) Summer 2021

Advanced Student Loans, Other Debt and the US Economy Fall 2020

Introduction to Macroeconomics (online) Summer 2020

Teaching Assistant

University of Massachusetts Amherst

Introduction to Microeconomics	Fall 2022, Spring 2018, Fall 2018
Money and Banking	Spring 2020
Intermediate Macroeconomic Theory	Spring 2019
Introduction to Macroeconomics	Fall 2017, Fall 2019

FELLOWSHIPS AND AWARDS

Political Economy Research Institute (PERI) Dissertation Fellowship (\$12,410.80)	2023-24
University of Massachusetts Amherst Three Minute Thesis Finalist	2023
Conference Travel Grant, Department of Economics, University of Massachusetts Amherst	2023
Endowment Foreign Scholarship, University of Calcutta	2017-18
National Eligibility Test (NET), University Grants Commission of India	2015
<i>First Class-First Rank</i> at Graduation level (B.Sc. Economics Honours), University of Calcutta	2014

CONFERENCE AND PRESENTATIONS

Conferences and Workshops

Presenter, "Energy Transition, Role of the State, and the Idea of Power: Lessons from China", URPE Paper Session, ASSA 2024, San Antonio	2024
Presenter, "Role of the State in the Energy Transition: The Case of China and Lessons for the United States", PERI Conference for Celebrating the Life and Work of Professor Jim Crotty (1938-2023), Political Economy Research Institute, Amherst	2023
Presenter, "Critical minerals, the energy transition, and impacts on the global south", Power, Resistance, and Identity Conference, University of Massachusetts Amherst, Amherst	2023
Presenter, "Reinvention of the Chinese mining sector for the energy transition", Business History Conference: Workshop on Economic History of Natural Resources, Detroit	2023
Panelist, Institute of New Economic Thinking (INET)-Young Scholars Initiative and All India Students' Association for Heterodox Economics (AISAHE), Workshop on Reimagining Economic Development, Kolkata	2015

Invited Talk

Sole presenter, "The Geopolitics of critical minerals", Webinar, Institute for Policy Studies, Washington, DC	2023
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LANGUAGE SKILLS

English: Full professional proficiency, **Hindi:** Full professional proficiency, **Bengali:** Native proficiency

TECHNICAL SKILLS

R, STATA, MS Office

REFERENCES

Robert Pollin
Department of Economics, University of Massachusetts Amherst
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Jayati Ghosh
Department of Economics, University of Massachusetts Amherst
Email: jghosh@umass.edu

Gerald Friedman
Department of Economics, University of Massachusetts Amherst
Email: gfriedma@econs.umass.edu

Kevin A. Young
Department of History, University of Massachusetts Amherst
Email: kayoung@history.umass.edu