

EDUCATION

Department of Economics, Boston College

Chestnut Hill, MA, USA

Ph.D. in Economics

May 2025 (*expected*)

- Committee: Richard Sweeney, Michael Grubb, Charles Murry

- Research area: Industrial Organization, Energy and Environmental Economics

Department of Economics, Boston College

Chestnut Hill, MA, USA

M.A. in Economics

May 2021

Delhi School of Economics

Delhi, India

M.A. in Economics

May 2017

Netaji Subhas Institute of Technology

Delhi, India

B.E. in Manufacturing Processes and Automation

May 2014

WORKING PAPERS

Contract design in renewable energy procurement auctions: Evidence from India

In procurement auctions, contracts set the post-auction investment terms. Under future uncertainty, incomplete contracts result in under-investment. This paper proposes contract design for the Indian solar energy procurement auctions to help achieve their green energy targets at the lowest possible procurement costs. I estimate a model to analyze the firms' optimal bidding and deployment decisions under cost uncertainty. Using the auction and post-award deployment data, I recover the cost distribution of the firms and show how the contract design influences procurement costs and deployment outcomes. The results show that the firms take the option of not deploying under high-probability cost scenarios, which leads to low deployment rates. The counterfactual analysis shows that incentive contracts with optimal selective bid indexing and penalties can significantly improve deployment rates while keeping procurement costs low.

WORK IN PROGRESS

How large are the cost savings from renewable energy auctions: Evidence from Germany (With Richard L. Sweeney)

TEACHING EXPERIENCE

Boston College

Machine Learning in Economics (*Teaching Fellow*)

Fall 2024

Principles of Economics (*Teaching Fellow*)

Summer 2024

Principles of Economics (*Head Teaching Assistant*)

Spring 2024

Principles of Economics (*Head Teaching Assistant*)

Fall 2023

Econometrics Lab (*Teaching Assistant*)

Fall 2022

Principles of Economics (*Teaching Assistant*)

Fall 2021

PROFESSIONAL EXPERIENCE	Boston College		
	Research Assistant to Richard Sweeney		Fall 2019
	PricewaterhouseCoopers, US Advisory		Mumbai, India
	Experienced Associate		2017-2019
	<i>Used Machine learning and NLP to solve business problems in the Healthcare and Industrial Products sector</i>		
	Mu Sigma		Bangalore, India
	Decision Scientist		2014-2015
	<i>Created and automated drug performance models for a Pharmaceutical Company</i>		
AWARDS	<ul style="list-style-type: none"> • Winner of Donald J. White Teaching Excellence Award at Boston College 2023 • Tuition Remission and Stipend, Boston College 2019-Present 		
PRESENTATIONS	AERE @OSWEET Energy talk, AERE Summer Conference, UC Berkeley Summer School, Boston College Markets and Firms seminar series, Boston College Dissertation Workshop .		
SKILLS	Languages: English, Hindi		
	Programming: Python, R, Julia , MATLAB, Stata, TEX \LaTeX .		
REFERENCES			
	Richard Sweeney	Michael Grubb	Charles Murry
	Associate Professor	Associate Professor	Associate Professor
	Department of Economics	Department of Economics	Department of Economics
	Boston College	Boston College	University of Michigan
	sweeneri@bc.edu	michael.grubb@bc.edu	ctmurry@umich.edu