

Venkatesh Subramanian

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EDUCATION

The University of Texas at Dallas, Dallas, TX, USA.

Ph.D., Public Policy and Political Economy

Expected 2027

Fields: Economics of Innovation

Committee chair: Dr. Dohyeong Kim

Committee members: Dr. Anne Burton, Dr. Natalia Lamberova, Dr. Pengfei Zhang

M.S., Social Data Analytics & Research

2025

Graduate Teaching Certificate

2024

Graduate Archer Fellow

2023

The Takshashila Institution, Bengaluru, KA, India.

Graduate Certificate in Advanced Public Policy

Apr 2022

Graduate Certificate in Tech Policy

Dec 2020

National Institute of Technology Karnataka, Mangaluru, KA, India.

M.Sc., Physics

2019

University of Madras, Chennai, TN, India.

B.Sc., Physics

2017

“Best outgoing student of BSc Physics” award

PROFESSIONAL EXPERIENCE

School of EPPS, The University of Texas at Dallas, TX, USA.

Origins of Ideas lab, Research Assistant

June 2026-**Current**

Facilitate validation of an AI-augmented data pipeline of researcher CVs

Manage a lab of 4 undergraduate students

Research Assistant to Dr. Natalia Lamberova

Summer 2024, Summer 2025

*Contribute to a working paper on how aggregate shocks influence
scientists’ research agendas*

Teaching Assistant

August 2023-**Current**

Center for Global Development, Washington DC, USA.

Summer Delegate,

June-Aug 2023

Co-published a working paper (see below)

Cartesian Consulting, Bengaluru, KA, India.

Senior Analyst,

Analyst,

Analyzed the behavior of 10M+ customers of retail clients

Consulted with stakeholders from a 10+ person cross functional team

Awarded ‘Rookie of the year 2019’ and ‘Employee of the year 2020’

July 2020-Jan 2022

June 2019-July 2020

RESEARCH

Doctoral Dissertation

Pushing and Pulling Antibiotic Innovation: Evidence from the National Institutes of Health and the Centers for Medicare & Medicaid Services

Bacterial Antimicrobial Resistance (AMR) has been recognized as a global public health problem with 1.27 million worldwide deaths in 2019 attributed to it. To combat the threat of AMR which is forecasted to worsen, policy recommendations have treated antibiotic drug innovation as an integral component. Several policy incentives are currently being explored to ‘push’ and/or ‘pull’ antibiotic drug innovation further with attempts being made to estimate the appropriate size of such incentives. My thesis does a similar exploration of the AMR innovation policy problem with a focus on US public institutions. I use reduced-form, design-based, causal inference techniques to estimate the impacts of existing US policy interventions which impacted the antibiotics market in the recent past.

Working Papers

Do Higher Health Insurance Reimbursements Encourage Antibiotic Innovation?: Evidence from Medicare’s 2007 DRG Restructuring.

I estimate the impact of the 2007 restructuring of Medicare’s Diagnostic-Related Groups (DRGs) in the US on the innovation of antibiotic drug patents. This restructuring had a first-stage effect on average hospital charges per stay (price of stay) reimbursed to hospitals with an average increase of \$8,584 per annum for treating the most-severe patient across base-DRGs corresponding to bacterial infectious syndromes for 4 years following the policy change. Hypothesizing passthrough of hospital charges to pharmaceutical usage, I assess whether this first-stage effect in turn caused antibiotic drug innovation by comparing patent trends. But I do not find evidence for these second-stage effects on patent outcomes. To measure drug patent innovation, I attribute US drug patents to DRGs by mapping them to Medical Subject Headings (MeSH) terms in SureChEMBL, a publicly available patents database containing biomedical annotations. This work is salient in light of recent efforts by policymakers to develop novel ‘pull incentive’ mechanisms to hasten antibiotic innovation to ameliorate the burden of bacterial antimicrobial resistance.

The Cost-Effectiveness of Health Aid: An Exploratory Quantitative Analysis (as a second author of Victoria Fan, Brian Webster, Karen A. Grépin, David Watkins, and Joseph Dieleman) 2024. Working Papers 700, Center for Global Development. [Repec URL](#)

One approach to development assistance for health, or health aid, emphasizes the ex ante selection of cost-effective health interventions, an approach that began with the World Development Report (1993) on Investing in Health and has since been adopted by the Effective Altruism community. But just how much of health aid is cost-effective? In this paper, we examine projects in the Organisation for Economic Co-operation and Development (OECD) Creditor Reporting System, the standard dataset that measures and characterizes development assistance for health, for the years 2019 to 2021, and count the number of projects that refer to interventions from a list of highly cost-effective interventions as defined by the Disease Control Priorities Project, third edition. This exploratory quantitative analysis indicates that 61% of projects used a key word/phrase of a cost-effective intervention. There were 11.9 interventions mapped per project on average. There is little evidence that donors tailor the set of interventions to country income levels by cost-effectiveness. Policymakers may benefit from reviewing the full portfolio of interventions covered by domestic and external resources.

Work in Progress

The Role of Push Incentives in Encouraging Antibiotic Innovation: Evidence from the National Institutes of Health

Mesearch: Personal Experiences and Research Agendas (as a second author of Natalia Lamberova, and Mikhail Galashin)

Pre-PhD Publication

Structure of Protein Interaction Network Associated With Alzheimer's Disease Using Graphlet Based Techniques. (as second author of Ahamed Khasim, K. M. Ajith & T. K. Shajahan) 2022. In: Banerjee, S., Saha, A. (eds) Nonlinear Dynamics and Applications. Springer Proceedings in Complexity. Springer, Cham. [DOI](#)

PRESENTATIONS

American Society of Health Economics Conference 2026 (both Presentation & Poster), MN, USA. 2026

Finalist, 3 Minute Thesis (3MT) 2026, The University of Texas at Dallas, TX, USA. 2026

Conference on Nonlinear Systems and Dynamics 2019 (Presentation), IIT Kanpur, UP, India. 2019

FELLOWSHIP

Graduate Archer Fellowship, Washington DC, USA Summer 2023

Wrote a policy paper on US federal legislation around digital advertising platforms

Met with legislative assistants, and legal counsels on the Hill

WORKSHOPS

Wealth Data Science Summer/Winter School 2024, Constructor University, Bremen, Germany. 2024

Worked on a project visualizing a network of tax avoidance flows

Summer Program on Dynamics of Complex Systems 2019 , ICTS, KA, India.	2019
<i>Attended modules on Agent-Based Modeling (ABM), Graph theory, Game theory</i>	

TEACHING

School of EPPS, The University of Texas at Dallas, TX, USA.	
Research Design II, Teaching Assistant	Spring 2024, Spring 2025, Spring 2026.
<i>Facilitated weekly recitations for grad students on causal inference, alongside grading duties</i>	
<i>Created a grading rubric for augmenting students' AI usage in assignments</i>	
Research Design in the Social and Policy Sciences, Teaching Assistant	Fall 2025
<i>Delivered a lecture in-class, alongside grading duties</i>	
Topics in Science, Technology and Institutions, Teaching Assistant	Fall 2024
<i>Delivered a lecture in-class (Evaluation available here)</i>	
Approaches to Peace, Teaching Assistant	Fall 2023
<i>Delivered a lecture in-class, alongside grading duties</i>	

VOLUNTEER SERVICES

The Centre for Effective Altruism	
Volunteer Facilitator	April-May 2022
<i>Facilitated hour-long discussions for 8 weeks on Effective Altruism as part of the Introductory EA program</i>	
National Institute of Technology Karnataka	
Physics Tutor	July-Dec 2018
<i>Volunteered to tutor in Physics to undergraduate engineers.</i>	

LANGUAGES	English, Tamizh, Hindi
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SKILLS	R, Python, Stata, SQL, Git, Linux Bash, Latex, Microsoft Excel
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CITIZENSHIP	Indian
	<i>Authorized to work in the US upto 3 years</i>

REFERENCES

[Dr. Dohyeong Kim](#)

*Robert E. Holmes Jr. Professor of Public
Policy, GIS & Social Data Analytics*
The University of Texas at Dallas
dohyeong.kim@utdallas.edu

[Dr. Anne Burton](#)

*Assistant Professor of
Economics*
The University of Texas at Dallas
anne.burton@utdallas.edu

[Dr. Natalia Lamberova](#)

*Assistant Professor of
Business and Technology*
The University of Texas at Dallas
natalia.lamberova@utdallas.edu

[Dr. Pengfei Zhang](#)

*Assistant Professor of Public
Policy, Economics, and Cybersecurity*
The University of Texas at Dallas
pengfei.zhang@utdallas.edu