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Undergraduate Studies:

Bachelor of Arts in Liberal Arts, Soka University of America, *summa cum laude*, 2011

Graduate Studies:

Wharton School, University of Pennsylvania, 2014 to present

Thesis Title: "Essays in Public Finance and Microeconomic Theory"

Expected Completion Date: June 2020

Thesis Committee and References:

Professor Kent Smetters (Primary Advisor)
325 Vance Hall
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Professor Alex Rees-Jones (Advisor)
Cornell University, Ithaca, NY14850
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Teaching and Research Fields:

Primary fields: Public Finance

Secondary fields: Microeconomic Theory, Digital Economics

Teaching Experience:

Spring, 2017 Managerial Economics, Wharton, teaching fellow for Professor Ulrich Doraszelski
Fall, 2018 Honors Thesis Seminar, Wharton, teaching fellow for Dr. Utsav Schurmans
Spring, 2019 Honors Thesis Seminar, Wharton, teaching fellow for Dr. Utsav Schurmans

Research Experience and Other Employment:

2012-2014 Innovations for Poverty Action, Research Associate
2013-2014 World Bank, Short-term Consultant

Honors, Scholarships, and Fellowships:

2014-2019 Wharton Graduate Fellowship
2014-2019 Japan Student Services Organization Educational Scholarship

2018-2019

Mack Institute Research Grants (\$20,000 in total)

Research Papers:

[*“Optimal Uniform Capital Taxation in A Partially Automated Society”*](#) (Job Market Paper)

A recent rapid-automation movement has been displacing routine labor and has sparked a series of discussion about taxation on automation such as a robot tax. However, the government's dilemma is that the planner may want to tax such physical capital that displaces routine labor—for example, industrial robots—for redistributive motives but does not want to tax other physical capital that increases such workers' productivities—for instance, collaborative robots (cobots). This paper studies a novel setting of the optimal capital taxation on physical capital in which there is asymmetric information on both labor types and capital types between the planner and market. In particular, my model focuses on a two-by-two scenario where there are two types of labor (routine and non-routine labor) and two types of capital (*displacing* and *reinstating* capital). Despite asymmetric information, I find that the optimal uniform capital tax rate over different types of capital is strictly positive, as long as the solution is interior.

[*“The Enemy of My Enemy Is My Friend: the Stability of the Basis of Foreign Policies”*](#)

Many foreign policies are based upon the ancient principle, “the enemy of my enemy is my friend.” This paper examines whether or not such a condition is a good predictor of diplomatic relations, by modeling the setting as a static network formation game with complementarities and side payments. I demonstrate that the condition is indeed a sufficient condition for the existence of a stable network that is also efficient.

[*“The Enemy of My Enemy Is My Friend: A New Condition for Two-sided Matching with Complementarities”*](#)

Stable matchings in the presence of complementarities need not exist. With a canonical form of payoff functions, the conventional sufficient condition for existence substantially restricts the range of pairwise complementarity/substitutability values. This paper provides a new sufficient condition for existence on the *maximal range* of complementarities/substitutabilities. Our condition also allows for a new class of settings that are relevant to labor markets but violate the conventional condition.

[*“Spring Forward and Fall Back on Health: The Effect of Daylight Saving Time on Acute Myocardial Infarction,”*](#) with Shinsuke Tanaka, *submitted* (draft available upon request)

Daylight Saving Time (DST) is a common energy policy worldwide, yet its practice is extremely controversial due primarily to perceived, though uncertain, health concerns. We examine the effects of DST on incidence and severity of acute myocardial infarction (AMI). Our novelty is to construct counterfactual seasonality effects by exploiting the quasi-experimental research design in Indiana. Our findings suggest that in 2002-2012, AMI admissions increased after the spring transition to DST by approximately 26% with similar severity. In contrast, the increased AMI at the autumn transition from DST can be explained by seasonality, although severity of individual cases was pronounced.