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Doctoral Studies

University of Texas at Austin
Ph.D., Economics, expected completion May 2015
DISSERTATION: "Essays on Externalities and Multilateral Agreements"

DISSERTATION COMMITTEE AND REFERENCES

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Prior Education	University of Texas at Austin M.S., Economics, May 2012 Georgetown University B.S.F.S., <i>Magna Cum Laude</i> , International Economics, May 2010		
Citizenship	USA, Poland	Gender	Female
Languages	English (native), Polish (native), Spanish (proficient), French (intermediate)		
Fields	Primary Fields: Game Theory, Microeconomics, Environmental Economics Secondary Fields: International Policy, Mechanism Design		
Skills	Statistics and Mathematics: MATLAB, Mathematica, Stata Programming Languages: L ^A T _E X, HTML, Java Applications: Adobe InDesign, Microsoft Office Other Skills: Conference Logistics, Journal Editing		
Teaching Experience	University of Texas at Austin <ul style="list-style-type: none"> • Introduction to Macroeconomics, undergraduate Assistant Instructor Fall 2013 <ul style="list-style-type: none"> – lead instructor for class of 160 students – part of the Course Transformation Project, a university initiative to create collaborative courses which invert the classroom – special focus on developing Team-Based Learning environment • Introduction to Microeconomics – Honors, undergraduate Teaching Assistant to Professor Thomas Wiseman Fall 2014 • Health Economics, undergraduate Teaching Assistant to Professor Helen Schneider Summer 2014 • Introduction to Macroeconomics – Honors, undergraduate Teaching Assistant to Professors Valerie Bencivenga and Beatrix Paal Spring 2013 & 2014 • Introduction to Microeconomics, undergraduate Head Teaching Assistant to Professor Daniel Hamermesh Fall 2012 • Comparative Economic Systems, undergraduate Teaching Assistant to Professor Brian Trinqué Summer 2012 • Introduction to Economics, undergraduate Teaching Assistant to Professor Dwight Steward Spring 2012 • Introduction to Philosophy Teaching Assistant to Professor Daniel Bonevac Fall 2011 • Introduction to Microeconomics, undergraduate Teaching Assistant to Professor Dean Showalter Summer 2011 • Macroeconomic Theory, undergraduate Teaching Assistant to Professor Douglas Dacy Spring 2011 • Introduction to Microeconomics, undergraduate Teaching Assistant to Professor Daniel Hamermesh Fall 2010 		

	Georgetown University	
	• Macroeconomic Principles, undergraduate Teaching Assistant to Professor Carol Rodgers	Spring 2010
	• Microeconomic Theory, undergraduate Teaching Assistant to Professor Axel Anderson	Fall 2009
	• Macroeconomic Principles, undergraduate Teaching Assistant to Professor Behzad Diba	Spring 2009
	• Microeconomic Principles, undergraduate Teaching Assistant to Professor Marius Schwartz	Fall 2008
Relevant Positions	University of Texas at Austin	
	• Research Assistant to Professor Valerie Bencivenga – development of the collaborative Macroeconomics course	Summer 2013
	Sigma-Aldrich	
	• Independent Consultant – creation of reference sequence database for kinases	Fall 2005 & Spring 2006
Fellowships, Honors & Awards	• UT Douglas C. Dacy, Ph.D. Endowed Fellowship in Economics • UT Graduate School Professional Development Award • UT David Bruton, Jr. Graduate School Fellow • Fulbright Scholar – Awarded for a project concerning the business and production choices of the Polish Theatre in Poznań, Poland during the Socialist era and today and completion of a Master's at the Economic University – Declined in favor of attending the Economics Ph.D. program at the University of Texas at Austin	2014 2014 2013 2010
	• Georgetown University, Honors in International Economics • Georgetown University, Carroll Fellow	2010 2008–2010
Professional Activities	• 25 th International Conference on Game Theory Presenter, “Minimum Participation Clauses as Exclusion Mechanisms in Public Good Agreements” • Texas Economic Theory Camp Presenter, “Minimum Participation Clauses and Exclusion in Public Good Agreements” • Texas Economic Theory Camp • Texas Econometrics Camp • Economics Teaching Conference • Institute of Studies on Economics and Occupation (ISEO) Summer School • Member of American Economic Association • Member of International Game Theory Society • Carroll Round Conference for Undergraduate Research in International Economics, Alumni Observer • Carroll Round Conference for Undergraduate Research in International Economics Presenter, “Early Participants of Multilateral Environmental Agreements and Their Effect on Later Membership”	2014 2014 2012 & 2013 2013 & 2014 2013 2013 2012 & 2013 2010

Academic Service

- UT Economics Graduate Students Assembled (EGAD) 2010–present
- UT Graduate Student Writing Group 2014
 - co-founded a new organization targeting graduate student commitment to research and interdisciplinary support
- UT Graduate Student Assembly (GSA) 2012–2014
 - Vice-Chair of the Finance Committee, 2012–2013
 - Outstanding GSA Member of the Month, January 2013
- Georgetown University Carroll Round Steering Committee 2008–2010
 - Editor-in-Chief of the Carroll Round Proceedings, Volumes 4 & 5

Research Papers

“Minimum Participation Clauses and Exclusion in Public Good Agreements”

Many public goods treaties have minimum participation constraints, which are clauses that a treaty only becomes binding if a sufficient proportion of nations involved ratify it. Further, the treaties typically only concern limited subsets of allocations, where only uniform reductions or only proportional reductions of pollutants are considered. Heterogeneity of the interested parties implies that minimum participation constraints strictly smaller than the grand coalition can be Pareto optimal within the limited sets of allocations that are the subject of bargaining between potential signatories. Minimum participation constraints can reduce the heterogeneity of the bargaining parties, and this can expand the set of acceptable agreements even after accounting for the post-treaty behavior of those not party to the treaty. This paper gives a general set of sufficient conditions for the optimality of exclusion result to hold, and presents examples of when exclusion improves upon unanimity.

Research in Progress

“Correlation in Dynamic Externalities as a Source of Coordination Value”

This work investigates correlation of shocks as a new source of dynamic externality. Correlated shocks to a resource system make single-agent management more valuable due to the information they contain. In a multiple-agent system, however, the shocks magnify the “tragedy of the commons,” making coordination of actions more valuable. This work focuses on a dynamic negative externality reduction game and leads to understanding of how agents agree to increase coordination and provision. The general set-up lends itself to an overfishing scenario. The work also investigates the correlation present in certain species of fish and whether species with higher growth correlation have specific treaties more often than species with lower growth correlation.

“Non-parametric Density Estimation with Asymptotic Variance”

This research examines a theoretical oddity of a one-sided kernel density estimator, in which the asymptotic variance of the estimator approaches the true density itself. Using bootstrapping methods, the estimated asymptotic variance can be used to create a new estimator. I plan to discuss the optimal combination of these estimators and possibly expand beyond the one-sided kernel.

Publications

“Early Participants of Multilateral Environmental Agreements and Their Effect on Later Membership.” *Carroll Round Proceedings*, Volume 6 (2011): 238–251.

This paper studies the causes of success in the signing and ratification of Multilateral Environmental Agreements (MEAs), especially the influence of early participants on later signers. Following previous studies, the paper examines the domestic factors contributing to whether or not a country has signed or ratified an environmental treaty at a particular time. However, the paper also attempts to isolate the effect of the characteristics of the first countries to participate in an MEA by adding variables which measure the relative influence of early signatories and parties. The study finds that the early participation of United Nations Security Council members encourages latter participants to join an agreement.