

# Anna A. Klis

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## Education

- Ph.D. Economics, University of Texas at Austin, (expected 2014)
  - *Proposed Dissertation*: Essays on Multilateral Agreements.
  - *Research Adviser*: Maxwell Stinchcombe
  - *Fields*: game theory, mechanism design, international policy
- M.S. Economics, University of Texas at Austin, 2012
- B.S.F.S. International Economics, *Magna Cum Laude*, Georgetown University, 2010
  - *Awards*: Honors in International Economics, Carroll Fellow

## Employment

### Department of Economics, University of Texas at Austin

- Teaching Assistant, Introduction to Macroeconomics – Honors, Valerie Bencivenga and Beatrix Paal, spring 2013
- Head Teaching Assistant, Introduction to Microeconomics, Daniel Hamermesh, fall 2012
- Teaching Assistant, Comparative Economic Systems, Brian Trinqué, summer 2012
- Teaching Assistant, Introduction to Economics, Dwight Steward, spring 2012
- Teaching Assistant, Introduction to Microeconomics, Dean Showalter, summer 2011
- Teaching Assistant, Macroeconomic Theory, Douglas Dacy, spring 2011
- Teaching Assistant, Introduction to Microeconomics, Daniel Hamermesh, fall 2010

### Department of Philosophy, University of Texas at Austin

- Teaching Assistant, Introduction to Philosophy, Daniel Bonevac, fall 2011

### Department of Economics, Georgetown University

- Teaching Assistant, Macroeconomic Principles, Carol Rodgers, spring 2010
- Teaching Assistant, Microeconomic Theory, Axel Anderson, fall 2009
- Teaching Assistant, Macroeconomic Principles, Behzad Diba, spring 2009
- Teaching Assistant, Microeconomic Principles, Marius Schwartz, fall 2008

## Research

### Research in Progress

- “Optimal Hesitation for Multiple Players in Public Goods Agreements.”
  - Description: This paper extends a one-stage game dynamically as an “optimal hesitation” model with multiple players. Currently, there are two states in the game: an initial state in which one action is optimal and an absorbing state in which another action is best. The major difference between the two states is the cost of switching between the two actions; while switching to the second action costs close to nothing in the initial state, it has a huge fixed cost once the second

state occurs. I plan to expand the number of states and their consequences to more accurately express the uncertainty present in many treaty situations. The goal is to compare the time to action in the absence of treaty to the times taken in the presence of various treaty options, and then to compare the possible realized outcomes.

- Classification: game theory, public good provision
- “Non-parametric Density Estimation using Asymptotic Variance.”
  - Description: This paper proves a theoretical oddity of a one-sided kernel estimator and makes use of the estimated asymptotic variance to create a new estimator. I plan to discuss the optimal combination of these estimators and possibly expand beyond the one-sided kernel.
  - Classification: econometrics, non-parametric density estimation

## Working Papers

- “Implications of Heterogeneity on Minimum Participation in Public Goods Agreements.”
  - Abstract: In an agreement to provide a public good, why do some treaties succeed more than others in gaining participants? How does heterogeneity affect the contribution of minimum participation (MP) constraints to a treaty’s success? In this paper, I analyze the effects of heterogeneity of agents on MP clauses in public goods treaties by modifying an established model. I present a game with two possible timings, one of three stages and the other with four, with the option to use a Nash bargaining process to negotiate the endogenous MP constraint in conjunction with the treaty action itself. I work out a parametrized example and find that heterogeneity influences equilibrium participants and treaty allocations, particularly differentiating effective treaties from symbolic ones, in a manner that homogeneity of agents does not.
  - Classification: game theory, public good provision

## Publications

- “Early Participants of Multilateral Environmental Agreements and Their Effect on Later Membership.” *Carroll Round Proceedings*, Volume 6 (2011): 238-251.
  - Abstract: This paper studies the causes of success in the signing and ratification of Multilateral Environmental Agreements (MEAs). Following previous studies, the paper examines the domestic factors contributing to whether or not a country has signed or ratified a particular 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.
  - Classification: applied game theory, environmental agreements, econometrics

## Conferences

### Presentations

- “Early Participants of Multilateral Environmental Agreements and Their Effect on Later Membership.”
  - Carroll Round Conference for Undergraduate Research in International Economics, April 2010
  - Georgetown University, International Economics Thesis Course, April 2010

### Attendance

- Texas Econometrics Camp, February 2013
- Texas Economic Theory Camp, October 2012
- Carroll Round Conference for Undergraduate Research in International Economics, April 2012 (alumni observer)

## Honors, Awards, and Fellowships

- Fulbright Scholar, September 2010
  - Awarded for a project concerning the business of the Polish Theatre in Poznań, Poland during the Socialist era and today
  - Declined in favor of attending the Economics PhD program at the University of Texas in Austin

## Academic Service and Activities

- Economics Graduate Students Assembled (EGAD), August 2010 - present
- Graduate Student Assembly (GSA), August 2012 - present
  - Outstanding GSA Member of the Month, January 2013
- University Speleological Society, February 2012 - present

## Volunteer Experience

- Learning Enterprises – Poland Program
  - Country Coordinator, August 2008 - present
  - Program Director, August 2008 - July 2009
  - Teacher, June 2008 - July 2008

*Last updated: March 5, 2013*