

# DINA GUO

University of Virginia  
Department of Economics  
P O Box 400182  
Charlottesville, VA 22904-4182

Phone: (434) 466-9519  
Email: [dg2df@virginia.edu](mailto:dg2df@virginia.edu)  
Website: <http://dinaguo.weebly.com/>  
Citizenship: China, **Permanent Residency: USA**

## EDUCATION:

Ph.D., University of Virginia Defended in October 2016; Degree Expected in December 2016

Dissertation: "Happy Together or Home Alone: A Structural Model of the Role of Health Insurance in Household Joint Retirement"

Committee: [Steven Stern](#), [Leora Friedberg](#), [John Pepper](#), [Christopher Ruhm](#)

M.A. Economics, University of Virginia May 2010  
M.A. Economics, Wuhan University June 2008  
B.A. Finance, B.S. Mathematics, Wuhan University June 2006

## FIELDS OF INTEREST:

Labor Economics, Health Economics, Public Economics, Applied Econometrics, Applied Microeconomics

## PUBLICATION AND WORKING PAPERS:

"Happy Together or Home Alone: A Structural Model of the Role of Health Insurance in Household Joint Retirement"  
Job Market Paper

- Study the roles of health insurance in household retirement and the reasons that people value health insurance
- Present a model of married couples joint decisions about retirement, health insurance coverage, and household savings
- Estimate the model using Maximum Simulated Likelihood (MSL) estimation and detailed household-level data from Health and Retirement Study (HRS)
- Address missing variables, omitted variables, and measurement errors in the HRS using econometric imputation models and data from Medical Expenditure Panel Survey (MEPS) and Panel Study of Income Dynamics (PSID)
- Simulate the effects on the labor force of several insurance and retirement-related policies, such as the implementation of Affordable Care Act (ACA), and increasing the Medicare eligibility age and the normal retirement age to 67

"Effect of Medicaid on Mental Health Care Use and Cost"

With Caruso Brown (Deputy Executive Director of Region Ten, [Virginia Community Services Board](#)) and  
Steven Stern (Stony Brook University) Working Paper

- Examine the effects of health insurance coverage on unit cost and usage of mental health-related treatments
- Analyze data from Medical Expenditure Panel Survey (MEPS) using zero-inflated Poisson and linear regression models
- Predict the change in unit cost, usage, and total spending of mental healthcare due to the Medicaid expansion
- Discuss implications of the change for reducing Medicaid expenditures across states
- Present our results to Virginia State [Senator Creigh Deeds](#)

"Cost and Service Variation across Community Services Boards for Mental Health Services in Virginia"

With Caruso Brown and Steven Stern Working Paper

- Evaluate service provision and unit cost of mental health treatments from public providers
- Analyze administrative data from state of Virginia and collect data from Current Population Survey (CPS)
- Present our results to Virginia State Senator Creigh Deeds

“Shared Extended-Family Caregiving in China”

With Eric Fesselmeier (National University of Singapore) and Steven Stern

Working Paper

- Study families’ decision-making processes about the division of childcare, long-term care, and financial transfers
- Analyze data from the China Health and Retirement Longitudinal Study (CHRLS) using different models
- Quantify consequences of long-term care policies in China

“Joint Health Transitions of Spouses”

With Leora Friedberg (UVA)

Work in Progress

- Examine the effects of chronic diseases and health insurance on household health dynamics using data from HRS
- Apply a Bivariate Probit model to capture the interdependence of spouses’ health dynamics
- Simulate the effects of plan coverage of a prescription drug that helps to cure chronic disease

“Analysis of Commercial Structure and Urbanization in China”

With Juan Wang (Hunan University of Commerce); Supported by NSF of China (\$30,000)

Work in Progress

- Evaluate urbanization policies in China in terms of the effects on commercial structure and citizen welfare
- Analyze administrative data from Hunan province, China using a Multinomial Logit model

“Supply and Demand Analysis in Train Tickets in China”

With Jing Zhang (Economist at Moody's Analytics)

Published in *Pivot Magazine*, January 2012

- Evaluate government regulations on train ticket purchases in China
- Apply principles of supply and demand to explain shortage in train tickets during Chinese New Year to general audience

**RESEARCH AND PROFESSIONAL EXPERIENCE:**

*International Expert*, Hunan University of Commerce, China

- Drafted the grant proposal for a \$30,000 policy evaluation project funded by the NSF of China

*Research Assistant*

Leora Friedberg (University of Virginia)	2013
Anthony Webb (Center for Retirement Research, Boston College)	2013
Lee Coppock (University of Virginia)	2012
Heng-fu Zou (The World Bank)	2007

**TEACHING EXPERIENCE:**

<i>Instructor</i>	University of Virginia	
Econ 2010, Principles of Microeconomics		Spring, Fall 2012
<i>Teaching Assistant</i>	University of Virginia	
Econ 3010, Intermediate Microeconomics		Fall 2009, Fall 2010
Econ 3550, Economy of China		Spring, 2010
<i>Teaching Assistant</i>	Institute for Advanced Study, Wuhan University	
Implications of Market Imperfections for Macro & Finance		Fall, 2007
International Trade		Spring, 2007
Auction Theory		Spring, 2007

**PRESENTATIONS:**

Seminar, Department of Economics, Stony Brook University	November, 2016
Bankard Applied Microeconomics Workshop, University of Virginia	October, 2016
15 <sup>th</sup> Annual Joint Conference of Retirement Research Consortium ( <a href="#">RRC</a> ), Washington, DC <i>(The only PhD student paper out of 21 selected papers)</i>	August, 2013
Southern Economic Association Annual Meeting, New Orleans, LA	November, 2012
Brown Bag Seminar, University of Virginia	September, 2012
Seminar, Institute for Advanced Study, Wuhan University	December, 2011

**HONORS AND AWARDS:**

Bankard Pre-Doctoral Dissertation Fellowship, University of Virginia (\$15,000)	2013-2014
First Place, Graduate Student Consulting and Beyond Case Competition, University of Virginia	2013
Dissertation Fellowship (10 recipients nationwide), <a href="#">Center for Retirement Study</a> , Boston College (\$28,000)	2012
Presidential Fellowship, University of Virginia	2008-2013
First Place (1/110), Academic Contest in Economics, Institute for Advanced Study, Wuhan University	2007

**SERVICE:**

Jury member, Honor Committee, University of Virginia	Fall, 2008
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**ADDITIONAL INFORMATION:**

Languages: English (Fluent), Chinese (Native)

Computing: Fortran, Stata, Matlab, SAS, Excel, LaTeX, Parallel Computation

Data: Health and Retirement Study; RAND HRS, Medical Expenditure Panel Survey; Panel Study of Income Dynamics; Current Population Survey; Robert Wood Johnson Foundation Employer Health Insurance Survey (1993); Kaiser Family Foundation survey; China Health and Retirement Longitudinal Study

**REFERENCES:****[Steven Stern](#)**

Professor and Director of Graduate Studies  
Department of Economics  
Stony Brook University  
Email: [steven.stern@stonybrook.edu](mailto:steven.stern@stonybrook.edu)  
Phone: (631) 632-1328

**[Leora Friedberg](#)**

Associate Professor, Vice Chair  
Department of Economics  
University of Virginia  
Email: [lfriedberg@virginia.edu](mailto:lfriedberg@virginia.edu)  
Phone: (434) 924-3225

**[John Pepper](#)**

Professor, Chair  
Department of Economics  
University of Virginia  
Email: [jvp3m@virginia.edu](mailto:jvp3m@virginia.edu)  
Phone: (434) 924-3402