

# DEVIN INCERTI

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## EDUCATION

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### Princeton University, Woodrow Wilson School of Public & International Affairs

Ph.D. Public Affairs 2015

Dissertation: “Essays in Health Economics and Political Economy”

M.A. Public Affairs 2013

### University of California, San Diego

*magna cum laude*

B.A. Mathematics and Economics 2009

B.A. Political Science (with highest honors) 2009

## RESEARCH INTERESTS

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Health services research, health economics, cost-effectiveness analysis, public policy, politics and health, happiness and well-being, quantitative methods

## RESEARCH PAPERS

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- *An Assessment of Long-term Healthcare Expenditures Using a Dynamic Bayesian Model*  
Jointly modeled mortality and long-term health expenditures using a dynamic Bayesian approach. Assessed potential implications for cost containment reforms and optimal health insurance design by quantifying long-term out-of-pocket expenditure inequality and the uncertainty of long-term spending. Estimates suggest two primary implications for policy. First, reforms that increase cost sharing must consider the risks of significant inequality and additional financial risk. Second, disease management programs have the potential to reduce costs significantly, but identifying high spenders is difficult.
- *Racial, Ethnic and Educational Disparities in Pharmaceutical Expenditures*  
Identified differences in prescription drug use as a potential mechanism for racial/ethnic and educational disparities in health outcomes. Showed that disparities occur due to differences in both diagnosis rates and use conditional on diagnosis. Estimated that less than 30 percent of differences can be attributed to access-related factors like income and insurance status.
- *The Optimal Allocation of Campaign Funds in House Elections*  
Calculated optimal campaign strategies for the Democratic and Republican parties by estimating an expected utility model using Bayesian state-space forecasts of House elections. Showed that parties pursue strategies consistent with seat maximization rather than maximizing their probability of winning a majority of seats.
- *Political Instability and Firm Performance: Evidence from Financial Markets*  
Used event studies and time series models to quantify the effect of political instability on stock prices.

## PROFESSIONAL EXPERIENCE

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Research Associate 2009 - 2010  
NERA Economic Consulting, Los Angeles, CA

- Conducted economic research in litigation matters under short deadlines with a particular focus on healthcare and life science firms.
- Analyzed and cleaned large datasets; extensive use of Stata and Excel.

## TEACHING

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Teaching Assistant 2013 - 2014  
Princeton University, Princeton, NJ

- Led 6 sections in statistics courses over 2 semesters.
- Reviewed statistical concepts from lectures and taught students how to use R and Stata.
- Students noted my ability to explain complex concepts simply.

## PROJECTS

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- **R Shiny App for Skeletal Dysplasias (2015):** Partnered with UCSF physicians to create an R Shiny app that aids diagnosis of skeletal dysplasias based on clinical features. Currently available at [skeletaldysplasias.ucsf.edu](http://skeletaldysplasias.ucsf.edu).

## HONORS AND AWARDS

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*Centennial Fellowship*, Princeton University 2010 - 2015

*The Award for Excellence in Joint Mathematics-Economics* granted to the most outstanding graduating Senior in Joint Mathematics-Economics, UCSD Department of Economics 2009

*DeWitt Higgs Award* granted to the outstanding graduating Senior in the area of law and public policy, UCSD Department of Political Science 2009

*Michael Addison Award* for the most outstanding Senior research paper, Warren College (graduating class of 950 students) 2009

*Warren College Honors Program* 2005 – 2009

## SKILLS AND INTERESTS

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Computing	Experienced: R, Stata, $\LaTeX$ Some experience: Python, MySQL, Stan, JAGS, HTML
Statistics	Bayesian statistics, machine learning, multilevel models, forecasting/prediction, time series, causal inference, data visualization
Athletics	UCSD Varsity Baseball Letterman, shortstop and centerfield, 2004 – 2006