

# PATRICK LAM

<http://www.patricklam.org>

patrick@thresher.io

## EMPLOYMENT

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**Lead Data Scientist** *Thresher*

*July 2015 - Present*

<http://thresher.io>

- Develop and code the algorithm and technology behind the Thresher product
- Work with clients to provide insight behind unstructured text and keywords through the Thresher algorithm

## EDUCATION

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**Ph.D. in Political Science**

*November 2013*

*Harvard University*

Dissertation: Estimating Individual Causal Effects

Committee: Gary King (chair), James Alt, Adam Glynn, Arthur Spirling

**A.M. in Statistics**

*March 2013*

*Harvard University*

**B.A. in Political Science** — *magna cum laude*

*June 2006*

*University of California, Los Angeles*

## PUBLICATIONS

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**Computer-Assisted Keyword and Document Set Discovery from Unstructured Text** (with Gary King and Margaret Roberts). *American Journal of Political Science*, forthcoming

## CONSULTING EXPERIENCE

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**Statistical Consultant** *Beecher Analysis Group*

*October 2012 - July 2015*

- Retained by preeminent international law firm as a core team member performing expert data analysis as a part of a high-stakes nationwide litigation
- Retained by the Australian Council of Trade Unions to perform data analytics and field experiments for the 2013 Australian Federal Election
- Retained by the International Finance Corporation to perform midterm evaluation for the IFC SME Finance Initiative

**Short-term Consultant**, *International Finance Corporation*

*May 2012 - January 2014*

- Statistical consultant for program evaluation on various IFC development projects

## TEACHING EXPERIENCE

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**Government 50: Introduction to Political Science Research Methods**,

*Spring 2010-2011*

- Teaching fellow for Professors Arthur Spirling and Adam Glynn
- Undergrad class at Harvard University and Harvard Division of Continuing Education
- Taught basic statistical analysis using SPSS

**17.800: Quantitative Research Methods I: Regression**,

*Fall 2010-2011*

- Teaching assistant for Professor Jens Hainmueller
- Graduate-level class at the MIT Political Science Department
- Focus on linear regression and causal inference using R and Stata

**Informal Bayesian Data Analysis Course**,

*Spring 2009-2010*

- Instructor for an informal graduate-level Bayesian statistics course in the Harvard Government Department
- Developed my own syllabus and problem sets

- Government 40: International Conflict and Cooperation,** *Spring 2009-2010*
- Teaching fellow for Professor Stephen Rosen
  - Undergrad class at Harvard University in international relations
- Math Prefresher for Incoming Graduate Students,** *Fall 2008, 2009*
- Instructor in Fall 2009-2010 and teaching fellow for Jen Bachner in Fall 2008-2009
  - Math refresher class for incoming Harvard Government Department graduate students
  - Reviewed calculus and probability and taught the basics for data analysis in R
- Government 1002/2001: Advanced Quantitative Political Methodology,** *Spring 2008-2009*
- Teaching fellow for Professor Gary King
  - Popular graduate-level class at Harvard University and Harvard Division of Continuing Education
  - Taught probability, maximum likelihood, causal inference, and missing data methods using R
- Government 2002: Topics in Quantitative Methods,** *Fall 2008-2009*
- Teaching fellow for Professor Michael Herron (Dartmouth University)
  - Graduate-level class on Bayesian statistics using R
- Senior Thesis Advisor, Harvard Government Department** *2008-2011*
- Andrew Chan (2008-2009), *magna cum laude plus*
  - Christopher Behrer (2010-2011), *summa cum laude minus*, winner of the Harvard Hoopes Prize
  - Taylor Helgren (2010-2011), *summa cum laude*
- Political Science 88SB: Globalization and Inequality,** *Spring 2006*
- Developed my own seminar at UCLA on globalization under the supervision Professor Ronald Rogowski

STATISTICAL SOFTWARE (DEVELOPED IN R)

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- Patrick Lam, “**coxph: Cox Proportional Hazard Regression for Duration Dependent Variables,**” in Kosuke Imai, Gary King, and Olivia Lau, “*Zelig: Everyone’s Statistical Software,*” <http://gking.harvard.edu/zelig>. 2007.
- Patrick Lam “**Generalized Estimating Equation for Logistic, Probit, Normal, Poisson, and Gamma Regression,**” in Kosuke Imai, Gary King, and Olivia Lau, “*Zelig: Everyone’s Statistical Software,*” <http://gking.harvard.edu/zelig>. 2007.

AWARDS AND HONORS

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- Dissertation Completion Fellowship,** Harvard GSAS, *2011-2012*
- Research Grant,** Harvard University Institute for Quantitative Social Science *2008 - 2009*
- Honorable Mention,** National Science Foundation Graduate Fellowship *2007*
- Harvard GSAS Fellowship,** full graduate fellowship for five years *2006-2011*
- Sylvia Sorkin Greenfield Award,** best senior thesis in political science at UCLA *2006*

SKILLS

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**Various Statistical/Software Packages and Programming Language:** R, Python, Apache Spark, Elasticsearch, Stata, SPSS

**Statistical Expertise:** basic statistical inference, linear regression, maximum likelihood models, Bayesian statistics, causal inference in observational and randomized studies, experimental design, missing data methods, bootstrapping and permutation methods, machine learning, text analysis