Patrick Lam

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Employment

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

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

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

Consulting Experience

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

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)

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

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

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