

# Stephen Pettigrew

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stephenpettigrew.com

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## Work Experience

### University of Pennsylvania

*Associate Director of Data Sciences of the Program on Opinion Research and Election Studies*

- Coordinated and conducted research projects related to public opinion and elections in the United States
- Taught a part of the core curriculum for Penn's undergraduate data science degree

*Deputy Executive Director of the Robert A. Fox Leadership Program*

- Managed an undergraduate research fellows program

Philadelphia, PA

Dec. 2017–pres.

Dec. 2017–pres.

### NBC News

*Senior Analyst*

- Worked on the network's election night Decision Desk team

New York, NY

Dec. 2017–pres.

### MIT Election Data and Science Lab

*Project Manager*

- Managed team of undergraduates and graduate students in building an election data clearinghouse

*Data Scientist*

- Constructed dataset for calculating 3 iterations of the Pew Elections Performance Index

Cambridge, MA

Apr.–Nov. 2017.

Sept. 2011–Apr. 2017

### Data Scientist and Consultant

*Bipartisan Policy Center/MIT Precinct Monitoring Project (Project Manager)*

- Produced report of the study's findings including individualized reports delivered to participant states
- Coordinated workflow of 10 data entry assistants

*Cooperative Congressional Election Study (Data Analyst)*

- Produced cumulative data file for longitudinal analysis of 6 years of survey data

*Winners View (Sports Media Data Consultant)*

- Developed statistical model of 3-point shooting among NBA centers; managed 2 research assistants

*Beecher Consulting LLC (Lead Data Analyst)*

- Evaluated program that invested \$100m+ in small and medium-sized firms in developing world

*Wall Street Journal (Data Modeler)*

- Evaluated impact of offensive and defensive skills on college basketball team

*Philadelphia 76ers (Sports Analytics Consultant)*

- Produced forecasting model of NBA success based on collegiate data; constructed database of 4 decades of college basketball statistics

Cambridge, MA

Oct. 2014–Oct. 2017

Jan. 2012–May 2017

Apr.–Jul. 2016

Jan.–Jun. 2016

Mar. 2015

Jul.–Nov. 2014

## Education

### Harvard University

PhD: Political Science; William Yandell Elliott Fellow

Master of Arts: Statistics

Cambridge, MA

May 2017

Mar. 2014

### University of Georgia

Master of Arts: Political Science and International Affairs

Bachelor of Arts: Political Science and History; Summa Cum Laude; Phi Beta Kappa

Athens, GA

May 2011

May 2011

## Statistics and programming expertise

Predictive modeling	R · Python · Stata · $\LaTeX$ · HTML · CSS	Regression
Data visualization	Web scraping	Survey methodology
Natural language processing	Machine learning	Bayesian inference
	Database management	

## Leadership and teaching

<b>Conference Organizer</b>	2016–2017
<i>Harvard Political Analytics Conference</i>	2016 & 2017
<ul style="list-style-type: none"><li>Organized hackathon where participants analyzed 2 elections databases constructed for the event</li><li>Coordinated research paper competition, vetting more than 30 academic research submissions</li></ul>	
<i>Who Will Win in Rio?</i>	2016
<ul style="list-style-type: none"><li>Led a day-long conference on political, economic, and athletic success at the 2016 Olympics</li></ul>	
<b>Harvard University Teaching Fellow; MIT Teaching Assistant</b>	2013–2016
<ul style="list-style-type: none"><li>Taught 5 semesters of 3 PhD-level statistics classes Topics: R programming · experiment design · generalized linear models · causal inference</li><li>Taught 4 semesters of 2 undergraduate level political science classes</li><li>Received Harvard Certificate of Distinction in Teaching for exemplary teaching evaluations (4 times)</li></ul>	
<b>Boy Scouts of America</b>	2000–2008
<ul style="list-style-type: none"><li>Eagle Scout; Assistant Scoutmaster</li><li>Trained 96 youth participants and led 16 staff members at week-long leadership training camp</li></ul>	

## Peer-reviewed publications

<b>Political Science Quarterly</b>	
“The Race Gap in Precinct Wait Times: Why Minority Precincts are Underserved by Local Election Officials”	Fall 2017
<b>Science</b>	
“Comment on <i>Estimating the Reproducibility of Psychological Science</i> ”	Mar. 2016
<b>International Journal of the History of Sport</b>	
“Hosting the Olympic Games: An Overstated Advantage in Sports History”	Mar./Apr. 2016
<b>Journal of Quantitative Analysis of Sports</b>	
“How the West will be Won: Using Monte Carlo Simulation to Estimate the Effects of NHL Realignment”	Sept. 2014
<b>Electoral Studies</b>	
“Strategic Politicians, Partisan Roll Calls, and the Tea Party”	Mar. 2013

## Selected other publications

<b>Washington Post (3 articles)</b>	2016–pres.
“Pence’s Voter Fraud Commission will Almost Certainly ‘Find’ Thousands of Duplicate Registrations that aren’t Duplicates. Here’s Why.”	
<b>FiveThirtyEight (6 articles)</b>	2014–pres.
“The 2014 Elections that Ended in a Tie”	
“How to Tell If a March Madness Underdog is Going to Win”	
<b>Wall Street Journal (5 articles)</b>	2014–pres.
“As NBA Playoffs Begin, Odds of Beating the Heat”	
“Sochi Olympics: Why Canada will Rule in Hockey”	
<b>Deadspin (6 articles)</b>	2014–pres.
“11 Million Brackets vs. ESPN, CBS, and Fox Experts: Who was Better?”	
“How Those 3-on-3 Overtime Rules Would Cut Down NHL Shootouts”	