Dean Knox

CONTACT INFORMATION	Department of Politics 309 Fisher Hall Princeton NJ 08544	(808) 200-9663 dcknox@princeton.edu www.dcknox.com

POSITIONS

Princeton University   Princeton, NJ
  Assistant Professor, Department of Politics   September 2018–
  Affiliations: Center for Statistics & Machine Learning, Center for the Study of Democratic Politics

Microsoft Research   New York, NY
  Postdoctoral Researcher, Computational Social Science group   July 2017–June 2018

EDUCATION

Massachusetts Institute of Technology   Cambridge, MA
  Ph.D., Political Science   August 2011–May 2017
    Fields: Models & Methods, Political Economy
    Committee: Adam Berinsky, Fotini Christia, Danny Hidalgo, Teppei Yamamoto (chair)

Monterey Institute of International Studies   Monterey, CA
  Certificate in Nonproliferation Studies   January 2009–December 2009

University of Illinois at Urbana–Champaign   Urbana–Champaign, IL
  B.S., Nuclear Engineering   August 2004–May 2008

JOURNAL ARTICLES

Dean Knox and Jonathan Mummolo. "Making inferences about racial disparities in police violence." Accepted, *Proceedings of the National Academy of Sciences* (Letter).

Dean Knox, Will Lowe, and Jonathan Mummolo. "The Bias is Built In: How Administrative Records Mask Racially Biased Policing." Conditionally accepted, *American Political Science Review*.

Samuel A. Mehr, Manvir Singh, **Dean Knox**, Daniel M. Ketter, Daniel Pickens-Jones, Stephanie Atwood, Christopher Lucas, Nori Jacoby, Alena A. Egner, Erin J. Hopkins, Rhea M. Howard, Joshua K. Hartshorne, Mariela V. Jennings, Jan Simson, Constance M. Bainbridge, Steven Pinker, Timothy J. O'Donnell, Max M. Krasnow, and Luke Glowacki. 2019. "Universality and Diversity in Human Song." *Science* (Research Article).

  <u>Author contributions:</u> "**D.K.** designed and implemented all analyses, with support from S.A.M. and C.L. S.A.M., **D.K.**, and M.S. designed the static figures and S.A.M. and **D.K.** created them."

Dean Knox, Teppei Yamamoto, Matthew Baum, and Adam Berinsky. 2019. "Design, Identification, and Inference in Patient Preference Trials." *Journal of the American Statistical Association*.

Dean Knox. 2012. "Nuclear Security and Nuclear Emergency Response in China." *Science & Global Security*, Vol. 20, No. 1.

SUBMITTED

Fragile Families Challenge Team. "Measuring the Predictability of Life Outcomes with a Scientific Mass Collaboration." Revise and resubmit, *Proceedings of the National Academy of Science*.

Dean Knox and Christopher Lucas. "A Dynamic Model of Speech for the Social Sciences." Revise and resubmit, *American Political Science Review*.

Fotini Christia, Elizabeth Dekeyser, and Dean Knox. "The Nature and Origins of Sectarian Animosity."

BOOK CHAPTERS

Fotini Christia, Elizabeth Dekeyser, and Dean Knox. Forthcoming. "Piety and Religious Communalism among Shiites in Iraq and Iran." *The Oxford Handbook of Politics in Muslim Societies*, eds. Melani Cammett and Pauline Jones. Oxford University Press.

Dean Knox. 2012. "The Comprehensive Test Ban Treaty: Foundations, Context, and Outlook." In *Handbook of Nuclear Proliferation*, ed. Harsh V. Pant. Routledge.

IN PROGRESS

Dean Knox. "`ffgrep`: Scalable Approximate String Matching."

Dean Knox and Christopher Lucas. "More than Words: How Political Rhetoric Shapes Voters' Affect and Evaluation."

Bocar Ba, Dean Knox, Jonathan Mummolo, and Roman Rivera. "Blue is Blue: The Limits of Descriptive Representation in American Police Agencies."

Dean Knox, Will Lowe, and Jonathan Mummolo. "Estimating Racial Bias in Policing."

Max Goplerud, Dean Knox and Christopher Lucas. "The Rhetoric of Parliamentary Debate: Measuring Conflictual Speech in New Zealand Floor Speeches."

Dean Knox, Jake Hofman, and Duncan Watts. "The Structure and Dynamics of Diffusive Conversations."

Dean Knox. "A New Model for Analyzing Paths: Determinants and Effects of U.S. Interstate Routes."

Fotini Christia, Dean Knox, and Jaffar Al-Rikabi. "Networks of Sectarianism: Experimental Evidence on Access to Services in Baghdad."

Fotini Christia and Dean Knox. "Geographic Segregation in Baghdad: Detecting Out-group Aversion in Walking Routes."

OTHER PUBLICATIONS

Fotini Christia, Elizabeth DeKeyser and Dean Knox. 2016. "To Karbala: Surveying Religious Shi'a from Iran and Iraq." Translated as "Ila Karbalā: Dirāsa Mashiyya 'an Shi'iat Iran Wāl-Irāq" *Dirāsāt Fikriyya, Dirasat Fikriya*. Nasr Al-Husaini, Aya Al-Raoof, Hasan Al-Asadi (trans.); Hasan Nadhem, Ali Hakam Saleh (eds.). Kufa University Press. 2018. Beirut, Lebanon.

Christia, Fotini, Elizabeth Dekeyser, and Dean Knox. 2016. "Shiites are Participating in the World's Largest Pilgrimage Today. Here is how they View the World," *Monkey Cage (Washington Post)*, 21 November 2016.

Christia, Fotini, Elizabeth Dekeyser, and Dean Knox. 2016. "Mapping Shiite Opinion: Insights from the Arba'een Pilgrimage." *Foreign Affairs*, 24 October 2016.

Jakobson, Linda and Dean Knox. 2010. "New Foreign Policy Actors in China." Stockholm: SIPRI. Translated as "Chuugoku no Atarashii Taigai Seisaku: Darega Donoyouni Kettei Shite Irunoka." 2011. Tokyo: Iwanami Shoten.

Jakobson, Linda, Paul Holtom, Dean Knox, and Peng Jingchao. 2011. "China's Energy and Security Relations with Russia." Stockholm: SIPRI.

AWARDS, HONORS & FELLOWSHIPS

Society for Political Methodology	John T. Williams dissertation prize, 2016
Society for Political Methodology	Best poster at annual summer meeting, 2015
National Science Foundation	Graduate Research Fellowship, 2013–2016
Massachusetts Institute of Technology	Presidential Graduate Fellowship, 2012–2013
Foreign Policy magazine	Best writing in global political economy, 2010

GRANTS

Dean Knox. 2019. "A Toolkit for the Quantitative Analysis of Audiovisual Speech Data." Schmidt DataX Research Award. $100,000.

Dean Knox and Andy Guess. 2019. "Do Video Personalization Algorithms Polarize Users?" Innovative Ideas in the Social Sciences, Princeton University Dean for Research. $50,000.

TEACHING

Princeton POL574: Statistical Machine Learning. Spring 2019.
Princeton POL571: Probability. Fall 2018.
Institute for Political Methodology summer camp. Summer 2015. Teaching assistant.
MIT 17.806: Machine Learning. Spring 2015. Teaching assistant.
MIT 17.802: Causal inference. Spring 2014. Teaching assistant.

PROFESSIONAL EXPERIENCE

Stockholm International Peace Research Institute   Stockholm and Beijing
  Research Assistant, China and Global Security Programme   January 2010–April 2011

National Defense University   Washington, DC
  Contract Researcher, Center for the Study of Chinese Military Affairs   June 2009–August 2009

Center for Nonproliferation Studies   Monterey, CA
  Research Assistant, East Asia Nonproliferation Program   January 2009–December 2009

CONFERENCE PRESENTATIONS

"The Structure and Dynamics of Diffusive Conversations"
American Political Science Association annual meeting. (Washington, D.C., 2019)

"The Bias is Built In: How Administrative Records Mask Racially Biased Policing"
Society for Political Methodology summer meeting. (MIT, 2019)
Asian Political Methodology Conference. (Kyoto, 2019)

"A Dynamic Model of Speech for the Social Sciences"
Society for Political Methodology summer meeting. (BYU, 2018)
Asian Political Methodology Conference. (Seoul, 2018)

"The Nature and Origins of Sectarian Animosity."
Association for Analytical Learning about Islam and Muslim Societies conference (Princeton, 2018)

"The Rhetoric of Parliamentary Debate: Measuring Conflictual Speech in New Zealand Floor Speeches"
Midwest Political Science Association annual meeting. (Chicago, 2019)
American Political Science Association annual meeting. (Philadelpha, 2016)

"A Model for Path Data."
Society for Political Methodology, summer meeting. (Houston, 2016)
American Political Science Association annual meeting. (San Francisco, 2015)
New Faces in Political Methodology conference. (Penn State, 2015)

"Networks of Sectarianism: Experimental Evidence on Access to Services in Iraq."
Multidisciplinary University Research Initiative (MURI) meeting, (UPenn, 2016)
Midwest Political Science Association annual meeting. (Chicago, 2016) Association for Analytical Learning about Islam and Muslim Societies conference (Stanford, 2016)

"Words Don't Fit The Picture: Using Computer Vision to Measure Speaker Sentiment in Videos."
Midwest Political Science Association annual meeting. (Chicago, 2016)
NYU-CESS Experimental Political Science conference. (NYU, 2016)

"Design, Identification, and Inference in Patient Preference Trials."
Society for Political Methodology, annual summer meeting. (Athens, GA, 2014)
Poster presentation. Atlantic Causal Inference Conference. (UPenn, 2015)

**"Identifying Peer Effects under Homophily with an Instrumental Variable:
Patronage and Promotions in the Chinese Bureaucracy"**
Poster presentation. Society for Political Methodology, summer meeting. (Athens, GA, 2014)
Midwest Political Science Association, annual meeting. (Chicago, IL, 2013)

"Markov Chain Simulation of Policy Diffusion."
Poster presentation. Midwest Political Science Association, annual meeting. (Chicago, IL, 2012)

INVITED TALKS	Wharton School of Business, Philadelphia	2019
	University of California, San Diego	2019
	New York University	2017
	University of Southern California	2017
	Brown University	2016
	Duke University	2016
	Emory University	2016
	Michigan University	2016
	New York University, Shanghai	2016
	Pennsylvania State University	2016
	Princeton University	2016
	Rochester University	2016
	University of California, San Diego	2016
SERVICE	Princeton Fellowship of Woodrow Wilson Scholars	Acting Director, 2019–
	Princeton Quantitative Social Science Colloquium	Faculty Co-coordinator, 2018–
	MIT Political Methodology Research Seminar	Student Coordinator, 2015
	MIT Political Methodology Workshop Series	Organizer, 2014
	MIT Political Economy Breakfast Series	Student Co-coordinator, 2014
	MIT Political Science Graduate Student Research Design Group	Co-organizer, 2013–2014
	Harvard–MIT–BU Chinese Politics Research Workshop	Co-organizer, 2012–2013