

Jeffrey Power Jacobs

PHD CANDIDATE, POLITICAL SCIENCE, COLUMBIA UNIVERSITY

email: jjj251@nyu.edu
web: cs.stanford.edu/~jjjacobs3
cell: +1 202-630-8111

RESEARCH INTERESTS Political Theory: Intellectual History (French Revolution+Cold War), Republicanism, Marxism
Computer Science: Natural Language Processing, Social Network Analysis, Machine Learning
Economics: Online Labor Markets, Bayesian Decision Theory, Evolutionary Game Theory

EMPLOYMENT **NYU Center for Data Science** New York, NY, USA
Adjunct Instructor, DSUA-111: Data Science for Everyone Jan 2020 – Present

EDUCATION **Columbia University** New York, NY, USA
PhD in Political Science Expected May 2021
Major Field: Political Theory
Minor Field: Quantitative Methods
MPhil in Political Science May 2018
MA in Political Science May 2016

Stanford University Palo Alto, CA, USA
MS in Computer Science Jun 2014
Artificial Intelligence, Biocomputation, and CS Theory Concentrations

University of Maryland College Park, MD, USA
BS in Computer Science, BS in Mathematics, BA in Economics May 2012
Minor in International Development and Conflict Management

DISSERTATION “‘*Our Word is Our Weapon*’: Text-Analyzing Ideological Struggle from the French Revolution to the Palestinian Intifadas”
Committee: Suresh Naidu (Chair), Jon Elster, Joshua Simon

PEER-REVIEWED PUBLICATIONS A. Dube, J. Jacobs, S. Naidu, and S. Suri. 2020. “Monopsony in Online Labor Markets.” *American Economic Review: Insights*, 2(1): 33–46. <https://www.aeaweb.org/articles?id=10.1257/aeri.20180150>

D. Shahaf, J. Yang, C. Suen, **J. Jacobs**, H. Wang, and J. Leskovec. “Information Cartography: Creating Zoomable, Large-Scale Maps of Information”. *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*. 2013. (metromaps.stanford.edu)

C. Duan, H. Gao, **J. Jacobs**, and W. Xu. “Metaheuristic Approaches to Resource Scheduling in Heterogeneous Wireless Networks”. *Joint Mathematics Meetings* (Poster Presentation). 2012.

J. Jacobs and J. Reggia. “Evolving Musical Counterpoint: The Chronopoint Genetic Algorithm”. *Proceedings of the First International Workshop on Evolutionary Music, IEEE Congress on Evolutionary Computation*, 11–16. 2011.

SELECTED
WRITINGS

J. Jacobs. “Automated Content Analysis and the 1789 *Cahiers de Doléances*”. *Phenomenal World Blog*, Jain Family Institute (Forthcoming). 2020. <https://phenomenalworld.org/>

INVITED TALKS

“How to Do Things with Translations: Cross-Lingual Semantic Phrase Embeddings for Translation Analysis”

Theories of Translation Workshop, Ohio State Univ., Columbus, OH, USA Feb 2020

Text as Data Conference (TADA 2018), Seattle, WA, USA Sep 2018

“*Fi Hadal Habs*: Text-Analyzing the Underground Communiqués of the First Palestinian Intifada”

Critical Media and Digital Studies Workshop, Columbia University, New York, NY, USA Oct 2018

“What We Talk About When We Talk About Influence”

7th London Summer School in Intellectual History, London, UK Sep 2018

“Automated Content Analysis and the 1789 *Cahiers de Doléances*”

5th Annual Politics and History Conference, Barcelona, Spain Jun 2018

“Word Embeddings: Can Vectors Encode Meaning?” (w/Katy Gero)

NYC Digital Humanities Week, New York, NY, USA Feb 2018

“Visualizing Polarization in the US Courts of Appeals, 1925-2002” (w/Elliott Ash and Daniel Chen)

2017 APSA Annual Meeting, San Francisco, CA, USA Aug 2017

RESEARCH
EXPERIENCE

Columbia School of International and Public Affairs (SIPA) New York, NY, USA
RA, Institute for Social and Economic Research and Policy (ISERP) Jan 2016 – Present

University of California, Berkeley Berkeley, CA, USA
Research Data Analyst, Dept. of Economics & Haas School of Business Jun 2014 – Jun 2015

Stanford University Department of Economics Palo Alto, CA, USA
Research Assistant, Development Economics Group Sep 2013 – Jun 2014

Stanford University Computer Science Department Palo Alto, CA, USA
Research Assistant, Stanford Network Analysis Project (SNAP) Sep 2012 – Apr 2013

National Institute of Standards and Technology (NIST) Gaithersburg, MD, USA
Summer Research Fellow, Quantum Communications Lab May 2012 – Aug 2012

University of Maryland Dept. of Computer Science College Park, MD, USA
Research Assistant, Algorithms and Theory Group Aug 2011 – Aug 2012

Hong Kong University of Science and Technology Clearwater Bay, Kowloon, Hong Kong
Summer Research Fellow, Dept. of Mathematics May 2011 – Aug 2011

University of Maryland Dept. of Computer Science College Park, MD, USA
Research Assistant, Biologically-Inspired Computing Group Aug 2010 – May 2011

PROFESSIONAL SERVICE	Program Committee, ACL 2020 (Association for Computational Linguistics)	Jul 2020
	Program Committee, 2020 ACL Student Research Workshop	Jul 2020
	Program Committee, 2019 ACL Student Research Workshop	Jul 2019
	Discussant, “Real-World Impacts of Political and Legal Texts”, Princeton Univ.	May 2017
	Referee, 2013 IEEE Symposium Series on Computational Intelligence	Jun 2013

AWARDS & ACHIEVEMENTS	Distinction in Quant. Methods (Field Exam), Columbia Political Science Dept.	Jan 2018
	Departmental Honors, University of Maryland Department of Computer Science	May 2012
	Departmental Honors, University of Maryland Department of Mathematics	May 2012
	Senior Outstanding Achievement Award (4.0 major GPA), UMD Dept. of Econ.	May 2012
	2011 Project of the Year, UMD QUEST Honors Program Senior Conference	Dec 2011
	QUEST Business & Engineering Honors Fellow, Smith Sch. of Business	Aug 2009 – May 2012
	Science, Technology, and Society Scholar, Clark School of Engineering	Aug 2008 – May 2012
	Dean’s List, College of Computer, Mathematical, and Natural Sciences	Aug 2008 – May 2012

TEACHING EXPERIENCE	New York University	
	DS-UA 111: Data Science for Everyone	Spring 2020, Summer-I 2020, Summer-II 2020
	Columbia University	
	POLS 4700: Mathematical Methods for Political Science	Fall 2018
	POLS 4710: Quantitative Political Research	Fall 2017
	POLS 1201: Introduction to American Politics	Fall 2016
	Stanford University	
	CS109: Introduction to Probability for Computer Scientists	Winter 2014, Spring 2014
	CS90SI: Learn Web Development Through Nonprofit Projects	Autumn 2013
	(Developed curriculum for new 1-credit Computer Science course)	
	CS103: Mathematical Foundations of Computing	Autumn 2012, Winter 2013, Autumn 2013
	CS221: Artificial Intelligence Principles and Techniques	Summer 2013
	University of Maryland	
	CMSC 420: Data Structures	Spring 2012
	CMSC 250: Discrete Mathematics	Fall 2011
	MATH 003: Developmental Mathematics	Fall 2010, Spring 2011
	CMSC 132: Object-Oriented Programming II	Spring 2010
	Workshops/Short Courses	
	<i>Jain Family Institute Seminar</i>	
	New York, NY	
	Let’s Get Free: A Gentle Introduction to Analytical Political Theory	(Postponed to 2021)
	(Postponed due to COVID-19, draft of lecture notes available on GitHub)	

Code for Palestine Summer Courses West Bank and Gaza, Occupied Palestinian Territories
Design Thinking for Mobile App Development Summer 2019
Web Development with Flask Summer 2018
Mobile App Development with Android Studio Summer 2017

Stanford Splash! Program Palo Alto, CA, USA
Game Theory and Mechanism Design Autumn 2013, Autumn 2014
Pledge No Allegiance: America Through A Hip Hop Lens Autumn 2014

TECHNICAL
SKILLS

Languages (In order of usage): Python, R, Stata, JavaScript, HTML/CSS, PHP, MATLAB, Shell Scripting, Java, C, C#, C++, Ruby, SQL
Frameworks/Packages: [Data Science] Pandas+NumPy, tidyverse, RStan [Deep Learning] PyTorch, Keras, TensorFlow, [NLP] Gensim, spaCy, CoreNLP, Mallet [Machine Learning] scikit-learn, [Network Analysis] NetworkX, [Web Development] Node.js, D3, Flask, MySQL, MongoDB, [Cloud Computing] AWS (EC2, S3), Google Cloud Platform (Natural Language, Translation APIs), DigitalOcean, [Misc] Qualtrics, Oracle VM VirtualBox, Nvidia CUDA Toolkit

LANGUAGES

English (Native), Spanish (Working Proficiency; 6-month immersion in Chiapas, Mexico; 3-month immersion in Havana, Cuba), Arabic (Reading Proficiency; Multiple-year immersion in Occupied Palestinian Territories), French (Limited Working Proficiency; 1 year immersion in Paris, France)

REFERENCES

Suresh Naidu
Professor of Economics and Public Affairs
Columbia University
New York, NY, USA
sn2430@columbia.edu

Jon Elster
Robert K. Merton Professor of the
Social Sciences, Columbia University
New York, NY, USA
je70@columbia.edu

Joshua Simon
Assistant Professor of Political Science
Columbia University
New York, NY, USA
jds2266@columbia.edu

Elliott Ash
Assistant Professor of Economics
ETH-Zürich
Zürich, Switzerland
ashe@ethz.ch