

Marco Morucci

Duke University
Department of Political Science
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Education

Duke University
Ph.D., Political Science, 2021 (expected)
Fields: Political Methodology, Political Economy
M.S., Statistical Science 2021 (expected)

London School of Economics and Political Science
M.Sc., Comparative Politics, 2013

LUISS Guido Carli
B.A., Political Science and International Relations 2012

Publications

Tianyu Wang, **Marco Morucci**, M. Usaid Awan, Yameng Liu, Sudeepa Roy, Cynthia Rudin, and Alexander Volfovsky (2021)
FLAME: A Fast Large-scale Almost Matching Exactly Approach to Causal Inference
Journal of Machine Learning Research, forthcoming

Marco Morucci, Vittorio Orlandi, Sudeepa Roy, Cynthia Rudin, Alexander Volfovsky (2020)
Adaptive Hyper-box Matching for Interpretable Individualized Treatment Effect Estimation
36th Conference on Uncertainty in Artificial Intelligence (UAI)

M. Usaid Awan, **Marco Morucci**, Vittorio Orlandi, Sudeepa Roy, Cynthia Rudin, Alexander Volfovsky (2020)
Almost-Matching-Exactly for Treatment Effect Estimation under Network Interference
23rd International Conference on Artificial Intelligence and Statistics (AISTATS)

M. Usaid Awan, Yameng Liu, **Marco Morucci**, Sudeepa Roy, Cynthia Rudin, Alexander Volfovsky (2019)
Interpretable Almost-Matching-Exactly With Instrumental Variables
35th Conference on Uncertainty in Artificial Intelligence (UAI)

Chrysa Lamprinakou, **Marco Morucci**, Rosie Campbell, Jennifer van Heerde-Hudson (2016) *All Change in the House? The Profile of Candidates and MPs in the 2015 British General Election*
Parliamentary Affairs 70(2) 207–232.

Working Papers

Marco Morucci [A Fast, Cost-Efficient Image Annotation Algorithm with an Application to Analyzing the Visual Components of protests](#)

Marco Morucci [Credible Assumption Mixtures: Combining Point and Partial Identification Assumptions for Interpretable Bayesian Causal Inference](#)

Neha R. Gupta, Vittorio Orlandi, Chia-Rui Chang, Tianyu Wang, **Marco Morucci**, Pritam Dey, Thomas J. Howell, Xian Sun, Angikar Ghosal, Sudeepa Roy, Cynthia Rudin, Alexander Volfovsky
[dame-flame: A Python Library Providing Fast Interpretable Matching for Causal Inference](#)

Marco Morucci, Md. Noor-E-Alam, Cynthia Rudin
[Hypothesis Tests that Are Robust to Choice of Matching Method.](#)

Marco Morucci, Cynthia Rudin
[Matching Bounds: How Choice of Matching Algorithm Affects Treatment Effect Estimates and What to Do about It.](#)

Pablo Beramendi, David Dow, **Marco Morucci**, Erik Wibbels
[Political and Economic Determinants of Illicit Financial Flows.](#) (Draft available upon request)

Work in Progress

Marco Morucci [Unsupervised and Interpretable Feature Extraction for Political Image Data via Constrained Variational Autoencoders](#)

Marco Morucci, Md. Noor-E-Alam, Cynthia Rudin [Robust Nonparametric Testing for Matching in Observational Causal Inference](#)

So Jin Lee, Kaitlyn Webster, Margaret J. Foster, **Marco Morucci**, Elizabeth C. Carlson, Will H. Moore, David A. Siegel
[A Bayesian Integrated Theoretical-empirical Model of Conflict in Africa](#)

Marco Morucci, Margaret J. Foster, Kaitlyn Webster, So Jin Lee, David A. Siegel
[A Theoretically-driven Approach to Measurement](#)

Marco Morucci, Victoria Paniagua
[Estimating the Returns to Bribery of Public Officials on Revenue from Public Contracts](#)

Awards and Fellowships

Duke University Political Science PhD Fellowship (2015-2020)
Duke University Summer Research fellowship (2016-2017)
Duke Political Science Evans Research Grant (2018)

Teaching

Teaching Assistant, Machine Learning (Graduate) Spring 2018,
Dept. of Computer Science, Duke University

Teaching Assistant, Mathematics introductory course (Graduate) Summer 2019
Dept. of Political Science, Duke University

Conference Presentations and Posters	International Political Economy Society (IPES) (2017)	
	Society for Political Methodology (POLMETH) (2018-2019)	
	American Political Science Association (APSA) (2019-2020)	
	Conference on Uncertainty in Artificial Intelligence (UAI) (2019-2020)	
	Conference on Artificial Intelligence and Statistics (AISTATS) (2020)	
Service	Referee for: Political Analysis, Political Science Research and Methods, Journal of Legislative Studies.	
	Coordinator of Political Economy Speaker Series, Dept. of Political Science, Duke University	
	Graduate student representative for political methodology, Dept. of Political Science, Duke University	
	Graduate student organizer for 2018 Political Networks Conference, Duke University	
Research Assistantship	Duke: David Siegel, Daniel Stegmueller, Erik Wibbels, Alexander Volfovsky (Statistics), Cynthia Rudin (Computer Science).	
Previous Employment	Research Assistant: Parliamentary Candidates UK, UCL London, 2014-2015	
	Intern: Italiacamp Association, Rome, 2010-2012	
Languages	Italian (native), Spanish (advanced)	
References	David Siegel Department of Political Science Duke University david.siegel@duke.edu ,	Cynthia Rudin Department of Computer Science Duke University cynthia@cs.duke.edu
	Alexander Volfovsky Department of Statistical Science Duke University alexander.volfovsky@duke.edu	Daniel Stegmueller Department of Political Science Duke University daniel.stegmueller@duke.edu