

# MaryClare Roche

PHD CANDIDATE · POLITICAL SCIENTIST

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## Education

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### University of Rochester

Rochester, NY

PH.D. IN POLITICAL SCIENCE

Exp. Dec. 2019

- Dissertation: Three Essays in Political Economy
- Fields: Comparative Politics, Formal Theory, Political Methodology
- Committee: Gretchen Helmke (co-chair), Mark Fey (co-chair), Bethany Lacina, Jack Paine

M.A. IN POLITICAL SCIENCE

July 2017

- Thesis: *Non-Consecutive Executives: Changing Preferences in a Changing World*
- Advisor: Mark Fey

### University of Maryland

College Park, MD

B.SC. IN PHYSICS (PRIMARY) AND GOVERNMENT & POLITICS (SECONDARY)

May 2013

- Physics Advisor: Drew Baden

## Working Papers

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### Non-Consecutive Executives: Changing Preferences in a Changing World

Master's Thesis/Dissertation Paper

- Why would voters vote a politician out of office only to bring her back later? While not common, 17% of world leaders have served non-consecutive terms. This paper presents a formal model outlining the strategy of politicians who choose farsighted policies that hurt them in the short term and voters who prefer an unknown challenger to the incumbent in one period only to latter change their mind. The model also accounts for the relative rarity of the phenomenon.

### The Same Coin: How Democratic Institutions Simultaneously Cause and Solve Collective Action Problems

Dissertation Paper

- The literature on democratic institutions in autocratic regimes is divided; some scholars claim these institutions serve to solve collective action problems among the regime's allies while others assert the institutions cause collective action problems among the regime's opponents. In this paper I present a theory that unifies these roles with evidence from intra-coalition dynamics in the Moroccan parliament. I use an original data set of parliamentary questions since 2011 to examine who asks who questions about what. I find anti-regime parties are much more likely to act antagonistically towards each other than pro-regime parties.

### B\*tches Get Sh\*t Done: Women Parliamentarians in Authoritarian Regimes

Dissertation Paper

- Scholarship on gendered behavior in legislative settings remains largely understudied, especially so in authoritarian regimes. Using original data from the Moroccan parliament, I show that female members of parliament in highly patriarchal societies participate at a higher rate than their male counterparts, regardless of party or political leanings, even when female legislators only constitute a minority of politicians. The results suggest that female legislators must and do work harder than male legislators to accomplish their policy goals.

### A Little Birdie Told Me: Modeling Experimental Learning with Martingales

- In this paper I develop a model of a legislator learns the multi-dimensional policy preferences of her colleagues in circumstances of extreme uncertainty. Using the property of martingale convergence, I identify the conditions under which improvements can be made to the status quo while remaining ambivalent regarding whether the legislative colleagues are acting sincerely or strategically.

## Presentation

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### Political Science Methodology Congerence 2018

Provo, UT

POSTER PRESENTATIONS

Jul. 18-21, 2018

- Network analysis of Moroccan parliamentary interactions

### Annual Meeting of the Midwest Political Science Association

Chicago, IL

JUNIOR SCHOLAR SEMINAR PARTICIPANT

April 7-10, 2016

- *Non-Consecutive Executives: Changing Preferences in a Changing World*

## Skills

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- Programming** R: tidyverse, topicmodels, tm, quanteda, arabicStemR, ggplot2;  
python: numpy, pandas, scipy, spaCy, gensim, matplotlib, multithreading, multiprocessing, selenium;
- Software** Matlab, Mathematica, ArcGIS, Docker, Stata, LaTeX, Excel
- Technical** Econometrics (Advanced), Time Series Analysis, Structural Estimation, Causal Inference, Machine Learning, Imputation, Web Scraping, Natural Language Processing (NLP) in English and Arabic
- Languages** Spanish (Proficient), French (elementary), Arabic (Modern Standard, elementary)

## Experience

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### Teaching

UNIVERSITY OF ROCHESTER

- Foundations of Political Theory, Graduate, Prof. James Johnson, Fall 2016
- Game Theory, Undergraduate, Prof. Bradley Smith, Spring 2017
- Applied Data Analysis, Undergraduate, Prof. Kevin Clarke, Fall 2015
- Introduction to Comparative Politics, Undergraduate, Prof. Bonnie Meguid, Fall 2017
- Introduction to Comparative Politics, Undergraduate, Prof. G. Bingham Powell, Spring 2016

### Department Service

UNIVERSITY OF ROCHESTER

- Comparative Politics Lecture Series and Working Group, 2016-2017
- Department of Political Science Women's Working Group, 2017-2018
- Captain, Co-Captain of Riker's Strikers, Department of Political Science softball team, 2015-2017

### Field Work

ACCRA, GHANA

- Prof. Robin Harding, 2014

### Research

UNIVERSITY OF ROCHESTER

- Prof. Gretchen Helmke, 2017
- Prof. Jack Paine, 2017
- Prof. John Duggan, 2014

INTERNATIONAL MONETARY FUND

- Dr. Jihad Dager, 2015

## Honors & Awards

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| <b>Douglas Beck Graduate Research Fellowship</b> | 2018      |
| <b>National Science Foundation Travel Award</b>  | 2018      |
| <b>Charles E. Lanni Research Fellowship</b>      | 2013-2018 |
| <b>Department Second Year Paper Fellowship</b>   | 2015      |
| <b>International Field Research Fellowship</b>   | 2014      |

## Professional Memberships

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### Midwest Political Science Association

2016-PRESENT

### Society for Political Methodology

2018-PRESENT