Bomi K. Lee

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Academic Appointments

National Science Foundation (NSF)-funded Post-doctoral Scholar

Department of Political Science, Washington University in St. Louis   August 2022 -

Department of Political Science, University of Kentucky   August 2021 - July 2022

Working with Dr. Tiffany D. Barnes and Dr. Diana Z. O'Brien in their NSF-funded research program on Women as Leaders, Policy-Makers, and Symbols.

Education

Ph.D. Political Science, University of Iowa   2021

Dissertation: *Interconnected Rivalries*

Abstract: My dissertation examines why some interstate rivalries last longer than others and why leaders pay higher domestic costs for interactions with some rival states. I focus on how multiple rivalries and interconnectedness among them influences rivalry duration. Using network centrality measures for interstate rivalries from 1900-2010, I find that rivalries with one central actor and one minor actor (e.g., Iraq-Kuwait) have a higher probability for rivalry termination than rivalries with two central actors (e.g., China-Japan) or two minor actors (e.g., Bolivia-Chile). I also examine triangular rivalry relationships and find that rivalries with common allies or common enemies are more likely to terminate than rivalries with mixed threats, with the effects being strongest in minor power rivalries. Finally, a survey experiment and time series analyses of Japanese prime minister approval (1998-2014) reveal that leaders face higher costs for cooperating with salient rival states. My theory and analyses show the importance of moving beyond the dyadic rivalry framework and incorporating network ties in conflict studies.

Committee: Sara McLaughlin Mitchell (chair), Kelly M. Kadera, Brian Lai, Elizabeth Menninga, and Paul F. Diehl

MA, Political Science, University of Iowa   2019

MA, International Relations, Seoul National University (South Korea)   2013

BA, Political Science, Seoul National University (South Korea)   2011

Publications

[3] **Lee, Bomi K.** "Triangles, Major Powers, and Rivalry Duration." *Journal of Conflict Resolution* (Forthcoming) DOI: 10.1177/00220027221134781

Earlier draft awarded the John Sprague Award (the best paper on political networks presented by a graduate student), issued by the Political Networks Section of APSA (2022)

[2] **Lee, Bomi K.**, Sara McLaughlin Mitchell, Cody J. Schmidt, and Yufan Yang. 2022. "Disasters and the Dynamics of Interstate Rivalry." *Journal of Peace Research* 59(1): 12-27. DOI: 10.1177/00223433211063333

[1] Schmidt, Cody J., **Bomi K. Lee**, and Sara McLaughlin Mitchell. 2021. "Climate Bones of Contention: How Climate Variability Influences Territorial, Maritime, and River Interstate Conflicts." *Journal of Peace Research* 58(1): 132-150. DOI: 10.1177/0022343320973738

Earlier draft awarded ISA Midwest's Frank J. Klingberg Best Paper Award (2019)

Book Chapter

[1] **Lee, Bomi K.** 2014. "North Korea's Peace Proposals in the 1970s," *Segye Jeongchi [World Politics]* 20: 323-370 [In Korean].

Working Papers

[5] **Lee, Bomi K.**, "Territorial Disputes, Multiple Rivals, and Leadership Approval: Evidence from Japan."

What rival relationship matters in domestic politics? When a country has multiple rivals, the effects of conflictual/cooperative policies and their outcomes on leadership evaluation can vary depending on the characteristics of rival relationships. I test the public's varying responses to interactions with rivals by using a 2 x 2 x 2 survey experiment in Japan (stronger/weaker x conflict/cooperation x success/failure) and time series analyses.

[4] **Lee, Bomi K.**, "Negative Centrality and Rivalry Duration"

What does it mean to have more enemies in interstate relationship networks? Contrary to central positions in alliance networks, a country's central position in rivalry networks indicates that the country with more rivals is more likely to be isolated. In this paper, I suggest a weighted negative centrality measure and show how the central position of a rival country influences rivalry duration.

[3] **Lee, Bomi K.**, and Sojeong Lee, "Uncovering spatial variability of climate change, water, and conflict"

This project focuses on two mechanisms to examine the relationship between climate change and interstate conflict: precipitation anomalies and spatial variability. We use precipitation information from the PRIO-GRID dataset to focus on geographical variations of water and climate conditions.

[2] Tolbert, Caroline J., **Bomi K. Lee**, and Karen Mossberger, "Broadband Use and Inclusive Prosperity in Communities."

This paper focuses on broadband subscription and internet use and how they influence economic prosperity in Black communities. We find that broadband adoption and digital commercial activity jointly increase the median household income for the nation overall (US) and ZIP codes with more Black population.

[1] **Lee, Bomi K.**, Cody J. Schmidt, and Sara McLaughlin Mitchell, "Paths to Peace in Issue Rivalries"

This paper moves beyond the dyadic rivalry context by considering how issue rivalry networks and extra-rivalry reputations influence peaceful and militarized conflict management in diplomatic issue conflicts. We capture interdependence by assessing the degree to which states are embedded in multiple rivalries using network analysis. We find that rivalry networks constrain militarization by target states in issue claims but have no effect on challengers.

Work in Progress

[3] Droughts and Political Turnover (with Tiffany D. Barnes and Diana Z. O'Brien)

This paper examines the effect of severe droughts on political turnover within democratic countries. Compared to other types of disasters, droughts are characterized by their prolonged duration. Thus, dealing with droughts can reveal how competent political leaders are. Our preliminary analysis shows that increases in deaths from droughts (slow-onset disasters) shorten the time to the next political turnover, while those from rapid-onset disasters (e.g., storms and floods) have an insignificant impact.

[2] Sustainable Futures Project (with Diana Z. O'Brien and Sylvia Dee)

In this project, we examine climate change and organized violence. By combining climate change projections at monthly time steps with geo-coded data on political instability, we establish with greater certainty whether there is a relationship between climate change and political conflict. Also, we employ simulation models using climate projections to offer better and more precise predictions about high-risk areas for climate-induced conflict through the end of the century.

[1] Networks and Women Foreign Affair Ministers (with Tiffany D. Barnes and Diana Z. O'Brien)

In this paper, we examine whether the position of a country in alliance and trade networks influences its decision to appoint a woman for the Foreign Affairs minister position. Particularly, we measure countries' connectedness by employing network analyses: centrality and structural equivalence.

Other Publications

[1] Barnes, Tiffany D., **Bomi K. Lee**, and Diana Z. O'Brien, "Even After Albright, Foreign Policy Leaders Are Still Mostly Men," *The Washington Post, Monkey Cage* (March 28, 2022).

Honors, Awards, and Grants

Travel Grant ($150), American Political Science Association (2022)

The John Sprague Award (the best paper on political networks presented by a graduate student), "Triangles, Major Powers, and Rivalry Duration," Political Networks Section of APSA (2022)

Outstanding Teaching Assistant Award ($1,000), University of Iowa (2021)

Graduate College Post-Comprehensive Research Fellowship ($10,000), Graduate College, University of Iowa (2020)

Graduate College Summer Fellowship ($5,000), Graduate College, University of Iowa (2020)

Travel Grant ($150), International Studies Association-Midwest (2020)

Research Grant ($1,000), Department of Political Science, University of Iowa (2020)

The Frank J. Klingberg Best Paper Award, Cody Schmidt, **Bomi Lee**, and Sara McLaughlin Mitchell, "Climate Bones of Contention", International Studies Association Midwest (2019)

Research Grant ($1,400), Department of Political Science, University of Iowa (2019)

Research Grant ($500), Graduate & Professional Student Government, University of Iowa (2019)

Travel Grant ($200), American Political Science Association (2019)

Travel Grant ($500), Department of Political Science, University of Iowa (2019)

NSF Fellowship ($900), Political Networks Workshops & Conference (2019)

Travel Funds Award ($750), Graduate Student Senate (GSS), University of Iowa (2019)

Best Course Paper Award, "Dissolution of Rivalries and Formation of Warm Peace," Department of Political Science, University of Iowa (2018)

Travel Grant ($550), Department of Political Science, University of Iowa (2018)

Summer Training Grant ($3,300), Department of Political Science, University of Iowa (2017)

Travel Grant ($600), Department of Political Science, University of Iowa (2017)

Research and Teaching Interests

International Relations: International Conflict and Cooperation, Interstate Rivalries, Interaction between Domestic and International Politics, Environmental Issues, Regional Security (East Asia)

Political Methodology: Introductory Statistics, Network Analysis, Time Series Analysis, Survival Analysis, Spatial Analysis, Survey Experiments

Research Experiences

University of Iowa

Countries Facing Multiple Rivals Project (online survey experiment in Japan)   August 2019 -

Designed experiment/questionnaire and received the IRB approval (n=1,200).

Research Assistant on Project Haystack (with GoDaddy.com) for Prof. Caroline Tolbert and Prof. Karen Mossberger   January 2021 - June 2021; September 2018 - December 2019

Cleaned raw data (n=20 million), visualized collapsed data (at the state/county/ZIP code levels), and conducted empirical analysis.

Research Assistant for Prof. Elizabeth Menninga   Summer 2019

Combined civil war datasets (UCDP/PRIO Armed Conflict Dataset, Non-State Actors in Armed Conflict Dataset, etc), and visualized networks and empirical results.

Research Assistant on Issue Correlates of War (ICOW) Project for Prof. Sara McLaughlin Mitchell   Summer 2017

Searched news stories for identity claims in Asia via LexisNexis.

The Institute for Far Eastern Studies (South Korea)

Research Intern for Prof. Jong-Dae Shin   March 2015 - October 2015

Searched and made a list of released governmental documents on the relationship between South Korea and North Korea.

Seoul National University (South Korea)

Research Assistant on East Asian International Relations Theory Project for Prof. Wookhee Shin   September 2012 - August 2015

Teaching Experiences

University of Iowa

Guest Lecturer for Advanced Methodology (Graduate-Level)   Fall 2021

Taught the concept of centrality in networks and how to use R to calculate various centrality measures.

(Online) Teaching Assistant for Consequences of War   Spring 2021

Instructor for Analyzing Political Data   Spring 2020

Guest Lecturer for Introduction to International Relations   Spring 2018

Teaching Assistant for Introduction to International Relations   Fall 2016/2017, Spring 2018

(Online) Teaching Assistant for Introduction to International Relations   Summer 2018

Teaching Assistant for Introduction to American Politics   Spring 2017

Iowa Social Science Research Center, University of Iowa

Statistical Consultant   Fall 2019 - Spring 2021

Taught workshops: Introduction and Data Management Using R, Network Visualization Using R, and Network Analysis Using R

ICPSR Summer Program, University of Michigan

Teaching Assistant for Time Series Analysis 1   Summer 2019

Taught six computer lab sessions with Dr. Desmond Wallace, and graded assignments.

Seoul National University (South Korea)

Teaching Assistant for Introduction to International Relations   Fall 2011

Additional Training

ICPSR Summer Program, University of Michigan   Summer 2017

Game Theory 1 & Rational Choice Theories of Politics and Society

ISRC Workshops, University of Iowa   Fall 2018

Python Basics

Invited Talks and Workshops

Journeys in World Politics, University of Iowa (2022)

Political Networks (PolNet), "Introduction to Network Analysis in R" (2022, 2023): invited as an instructor

Visions in Methodology (VIM), Claremont Graduate University (2021)

Department of Political Science, Rice University (2021)

University of Alabama's ISSR Workshop on International Conflict (2020): canceled due to the COVID-19

Minnesota Political Methodology Graduate Student Colloquium (2019)

Conferences

Paper Presentations

American Political Science Association Annual Meeting (2020, 2022)

American Political Science Association Annual Meeting (co-author) (2019, 2021)

International Studies Association Annual Conference (2021, 2022, 2023)

International Studies Association Annual Conference (co-author) (2022)

International Studies Association Midwest Annual Conference (2017, 2018, 2019, 2020)

Midwest Political Science Association Annual Meeting (2018)

Peace Science Society Annual Meeting (co-author) (2019, 2020)

Political Networks (2022)

Southern Political Science Association Annual Meeting (2022)

Conference Within A Conference on Rethinking Disaster Politics and Policy

Poster Presentations

International Studies Association Annual Conference (2020): canceled due to the COVID-19

Peace Science Society Annual Meeting (2019)

Political Networks (2019)

Professional Affiliations

American Political Science Association
International Studies Association
Peace Science Society

Disciplinary Service

Referee

American Political Science Review
International Interactions
International Studies Quarterly
Journal of Peace Research
Political Geography
Review of International Organizations

Communications Officer, *Political Networks Section of the American Political Science Association* (2023-)

Departmental Service

Instructor, Math Camp for incoming graduate students, Department of Political Science, University of Iowa (2019, 2020)