

**Kyungkook Kang, Ph.D.**

Department of Political Science  
University of Central Florida  
4297 Andromeda Loop N. Howard Phillips Hall, Orlando, FL 32816

**EDUCATION**

Ph.D., Political Science & Economics Interfield Program, Claremont Graduate University, August 2011  
Fields: World Politics (Political Science), Public & Microeconomics (Economics)  
Doctoral Qualifying Exams: World Politics, Macroeconomics, Microeconomics  
Dissertation Title: Conditional Deterrence: Microeconomic Analysis of War Initiation Mechanism  
Dissertation Committee: Jacek Kugler (Chair, Political Science), Darren Filson (Economics),  
Mark Abdollahian (Political Science)

M.A., Economics, Claremont Graduate University, May 2008

Summer Program in Quantitative Methods, Inter-University Consortium for Political and Social Research,  
University of Michigan (Bayesian Regression Analysis & Regression III), July 2006

Merriam Mathematical Modeling Workshop, University of Illinois, Urbana-Champaign, January 2006

B.A., Political Science and International Studies, Yonsei University, Seoul, Korea, February 2001

**Other Professional Training:**

University of Central Florida Faculty Development Program (IDL 6543 Interactive Distributed Learning for  
Technology-Mediated Course Delivery), Fall 2014

**ACADEMIC APPOINTMENTS**

Assistant Professor, Department of Political Science, University of Central Florida, FL, 2014 – Present  
Adjunct Professor, Division of Politics & Economics, Claremont Graduate University, CA, 2011 – 2014  
Lecturer, School of International Relations, University of Southern California, CA, 2011 – 2011  
Lecturer, School of Business, La Sierra University, CA, 2010  
Senior Fellow, TransResearch Consortium, Portland State University, OR, 2016 – Present  
Research Associate, TransResearch Consortium, Portland State University, OR, 2006 – 2016

**RESEARCH & TEACHING INTERESTS**

Political Science: Theories of Conflict Processes, Deterrence, International Security  
Economics: Public Choice, New Institutional Economics, Economic Growth, International Economics  
Methods: Game Theory, Econometrics, Bayesian Methods, Multilevel Modeling, Agent-Based Modeling,  
System Dynamics Modeling, Social Network Analysis

**RESEARCH ACTIVITIES**

### **Peer-Reviewed Journal Articles:**

- Kang, Kyungkook and Jacek Kugler, 2015. "Assessment of Deterrence and Missile Defense in East Asia: A Power Transition Perspective." *International Area Studies Review*, 18 (3): 280-296.
- Kugler, Tadeusz, Kyungkook Kang, Jacek Kugler, Marina Arbetman, and John Thomas, 2013. "Demographic and Economic Consequences of Conflict." *International Studies Quarterly*, 57 (1): 1-12.
- Abdollahian, Mark and Kyungkook Kang, 2008. "In Search of Structure: The Nonlinear Dynamics of Power Transitions." *International Interactions*, 34 (4): 333-357.

### **Peer-Reviewed Chapters in Edited Volumes:**

- Kang, Kyungkook and Tadeusz Kugler, 2017. "Interdisciplinary Contributions from International Political Economy and Political Demography: Exploration of Economic Recovery." In *Interdisciplinary Approaches to International Studies* edited by Steve Yetiv and Patrick James, Palgrave Macmillan.
- Kang, Kyungkook and Jacek Kugler, 2013. "Nuclear Weapons: Stability of Terror." In *Debating a Post-American World: What Lies Ahead?* edited by Sean Clark and Sabrina Hoque, Routledge.
- Abdollahian, Mark, Kyungkook Kang, and John Thomas, 2012. "Setting the Stage: The Politics of Economic Growth." In *Performance of Nations* edited by Ronald Tammen and Jacek Kugler, Rowman and Littlefield.
- Abdollahian, Mark, Marina Arbetman-Rabinowitz, Kyungkook Kang, Jacek Kugler, Hal Nelson, and Ronald Tammen, 2012. "Political Performance." In *Performance of Nations* edited by Ronald Tammen and Jacek Kugler, Rowman and Littlefield.

### **Peer-Reviewed Proceedings Paper:**

- Yang, Zining, Kyungkook Kang, and Jacek Kugler, 2018. "An Agent-Based Approach on Conditional Deterrence and Regional Stability." In *Advances in Intelligent Systems and Computing* edited by Daniel Cassenti. Advances in Human Factors in Simulation and Modeling (AHFE). vol 591., Springer.

### **Work in Progress:**

#### **Under Review**

- Kang, Kyungkook, Ali Fisunoglu, and Tadeusz Kugler. "Rebuilding States: Influences of Politics and Foreign Aid on War Recovery."
- Kang, Kyungkook. "A Strategic Analysis of Conditional Deterrence."
- Ali Fisunoglu, Kyungkook Kang, and Tadeusz Kugler, 2018. "Relative Political Capacity: Measuring the Ability of Governments to Extract, Allocate, and Reach Populations Data from 1960-2016."
- Vasquez, Joseph Paul and Kyungkook Kang. "Deadly Work if You can get It: Military Manpower Policy and Casualty-prone Democracies."

#### **In Preparation**

- Kang, Kyungkook and Jacek Kugler. (book) "Conditional Deterrence: Parity, Terrorism and Tenuous Deterrence." (an earlier version of the first and second chapters presented at the 2015 and 2017 annual convention of American Political Science Association).
- Vasquez, Joseph Paul and Kyungkook Kang. (manuscript) "A Job to Die For: Volunteer Militaries and Casualty-prone Regimes." (an earlier version presented at the 2017 International Studies Association).
- Kang, Kyungkook. (manuscript) "A Formal Assessment of International Cooperation Process." (an earlier version presented at the 2016 TransResearch Consortium Summer Conference).

Kang, Kyungkook. (manuscript) “America’s Deterrence Challenge in East Asia.” (prepared for a chapter *The Rise of Regions* (tentatively titled) edited by Ronald Tammen).

Kang, Kyungkook. (manuscript) “Measuring the Allocative Political Performance of Nations.” (an earlier version presented at the 2015 annual convention of Midwest Political Science Association).

### **Grant Activities:**

2016-2017 “Beyond Conventional Deterrence” UCF In-House Research Grants, as PI – Total \$6,078 [application status: funded]

2016-2017 “Exploring a Mathematical Model for Deterrence Dynamics in an Era of WMD Proliferation” United States Air Force Academy (USAFA), the Project on Advanced Systems and Concepts for Countering Weapons of Mass Destruction (PASCC), as PI – Total \$146,041 [application status: classified as Category II and declined]

2015-2016 “Nation Building and Recovery after Conflict” American Council of Learned Society (ACLS) Collaborative Research Fellowship, as Collaborator (Project Coordinator: Jacek Kugler) – Total \$ 196,644 [application status: declined]

2015 “Long-Term Coupled Social and Ecological Drivers of Estuarine Health in Coastal Ecosystems.” NSF CNH-L, as CO-PI (PI: Peter Jacques) – Total \$1,534,994 [application status: declined]

2015 “Conditional Deterrence.” The Minerva Research Initiative for 2015, as CO-PI (PI: Jacek Kugler) – Total \$470,000 [application status: declined]

### **Data Collection and Management:**

Arbetman-Rabinowitz, Marina, Mark Abdollahian, Ali Fisunoglu, Kristin Johnson, Kyungkook Kang, Jacek Kugler. “Relative Political Capacity Dataset”, Version 2.1. Accessible at Harvard Dataverse Network: <http://hdl.handle.net/1902.1/16845> (2,906 downloads as of January 31, 2018).

### **Invited Presentation:**

Kugler, Jacek and Kyungkook Kang, 2017. “Conditional Deterrence.” The seminar of Disarmament and Armament Dynamics in the Present World, Norwegian Nobel Institute, Oslo, Norway, May 23.

Kang, Kyungkook, 2017. An Agent-Based Model of Escalation Dynamics in an Era of WMD Proliferation, Claremont Graduate University, CA, October 17.

Kang, Kyungkook, 2015. “Theoretical Assessment of Deterrence Stability.” The workshop of Power Transition Theory and the Rise of China, Peace Research Institute Oslo (PRIO), Oslo, Norway, April 30.

### **Conference Presentations (Since 2011, International Only):**

Ali Fisunoglu, Kyungkook Kang, and Tadeusz Kugler, 2018. “Relative Political Capacity: Measuring the Ability of Governments to Extract, Allocate, and Reach Populations Data from 1960-2016.” International Studies Association, , San Francisco, CA.

Kugler, Tadeusz, Ali Fisunoglu, and Kyungkook Kang, 2018. “Causalities as Policy: Comparing Recovery after War vs. Genocide.” International Studies Association, , San Francisco, CA.

Kyungkook Kang, Zining Yang, and Jacek Kugler, 2017. “Conditional Deterrence: An Agent-Based Model of Escalation Dynamics in an Era of WMD Proliferation.” American Political Science Association, San Francisco, CA.

Kang, Kyungkook, 2017. “The Costly Transition to a Nuclear Power.” International Studies Association, Baltimore, MD.

- Vasquez, Joseph Paul and Kyungkook Kang, 2017. "Deadly Business: Volunteer Militaries and Casualty-prone Democracies." International Studies Association, Baltimore, MD.
- Yang, Zining, Kyungkook Kang, and Jacek Kugler, 2017. "An Agent-Based Approach on Conditional Deterrence and Regional Stability." International Conference on Applied Human Factors and Ergonomics (AHFE), Los Angeles, CA.
- Kang, Kyungkook, 2016. "A Formal Model for Strategic Risk Analysis of Deterrence." American Political Science Association International Studies Association, Atlanta, GA.
- Kang, Kyungkook and Jacek Kugler, 2016. "Parity, Risk, and Satisfaction: Assessing the Stability of Deterrence in East Asia." International Studies Association, Atlanta, GA.
- Kang, Kyungkook and Jacek Kugler, 2015. "Beyond Conventional Deterrence: A New Model of Escalation Dynamics in an Era of WMD Proliferation." American Political Science Association, San Francisco, CA.
- Abdollahian, Mark and Kyungkook Kang, 2015. "Measuring the Allocative Political Performance of Nations." Midwest Political Science Association, Chicago, IL.
- Fisunoglu, Ali, Tadeusz Kugler, Jacek Kugler, and Kyungkook Kang, 2014. "Visually Exploring the Consequences of War and the Path to Recovery." International Studies Association, Toronto, Canada.
- Kang, Kyungkook, Jacek Kugler and Steven Childs, 2013. "A Formal Assessment of the Deterrence Process." International Studies Association, San Francisco, CA.
- Fisunoglu, Ali, Jacek Kugler, and Kyungkook Kang, 2013. "Postwar Recovery and Reconstruction of Nations." Peace and Conflict Conference in Essex, Colchester, UK.
- Childs, Steven, Kyungkook Kang, and Jacek Kugler, 2012. "Systemic Assessment of Deterrence." Peace Science Society, Savannah, GA.
- Abdollahian, Mark and Kyungkook Kang, 2012. "Political Performance of Nations: Allocation." International Studies Association, San Diego, CA.
- Kang, Kyungkook, Jacek Kugler and Tadeusz Kugler, 2011. "Economic Consequences of Conflict." American Political Science Association, Seattle, WA.
- Kang, Kyungkook, Jacek Kugler and Tadeusz Kugler, 2011. "Phoenix Factor Revisited." International Studies Association, Montreal, Canada.

### TEACHING ACTIVITY

#### Courses Taught

##### At UCF:

- INR6065 Seminar on War (Graduate), Fall 2017
- POS3703 Scope & Methods of Political Science (Undergraduate), Fall 2014, Spring 2015, Fall, 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018
- POS6747 Advanced Topics of Quantitative Political Analysis (Graduate), Spring 2017, Spring 2018
- POS6746 Quantitative Methods in Political Research (Graduate), Spring 2015, Spring 2016
- POS7745 Advanced Quantitative Methods in Political Research (Graduate), Fall 2015, Fall 2016
- INR6918 Directed Research (Frank Fan, PhD Student), Summer 2017
- POS6908 Independent Study – Advanced Quantitative Methods in Security Studies (Jennifer Hudson, PhD Student), Fall 2017
- POS6908 Independent Study – International Security in Asia (Karthikeyan Thiagarajan, PhD Student), Summer 2017

POS6909 Independent Study – Rational Choice in Security Studies (Peyman Asadzadehmamaghani, PhD Student), Spring 2017  
POS6908 Independent Study – Political Economy (Didara Nurmanova, PhD Student), Summer 2016  
POS6908 Independent Study – Civil War and Globalization (Didara Nurmanova, PhD Student), Spring 2016  
INR6908 Independent Study – Rise of hegemonic states and the People's Republic of China (Juliet Smith, PhD Student), Summer 2015  
POS6908 Independent Study – Bayesian Statistics with Computational Methods (Clayton Besaw, PhD Student), Fall 2014  
The PhD Summer methodology workshop – Data Preparation and Management, Summer 2015, Summer 2016, Summer 2017

**Prior to UCF:**

SPE317 Advanced Formal Models in Political Science (Graduate), Claremont Graduate University, Fall 2011, Fall 2012, Spring 2014  
PP438 Foreign and Defense Policy (Graduate), Claremont Graduate University, Fall 2012, Fall 2013  
SPE488A Multilevel Modeling (Graduate, Claremont Graduate University, Fall 2013  
PP432 Seminar in Civil War (Graduate), Claremont Graduate University, Summer 2013  
PP420A American Foreign Policy (Graduate), Claremont Graduate University, Spring 2013  
SPE488 Bayesian Methods (Graduate), Claremont Graduate University, Spring 2013  
SPE471 Strategic Modeling for Political, Economic & Business Decisions (Graduate), Claremont Graduate University, Spring 2012  
PP447 Seminar in Social Network Analysis (Graduate), Claremont Graduate University, Spring 2012  
PP487 Applied Data Analysis (Graduate), Claremont Graduate University, Fall 2011  
PP419 Seminar in International Political Economy (Graduate), Claremont Graduate University, Fall 2011  
IR514 Multivariate Analysis for International Studies (PhD), University of Southern California, Spring 2011  
ECON254 Principles of Macroeconomics (Undergraduate), La Sierra University, Winter 2010, Spring 2010  
MGMT486/686 International Environment & Management (Graduate/Undergraduate), La Sierra University, Spring 2010  
ECON537 Managerial Economics (Graduate), La Sierra University, Winter 2010

**PHD THESIS COMMITTEE:**

Member: Clayton Besaw. 2018. “Altruistic Punishment Theory and Inter-Group Violence.”

Member: Gary Smith (current as of 2018)

Member: Jeff Payne (current as of 2018)

**MASTER’S THESIS COMMITTEE:**

**At UCF:**

Member: Gregory David McDowall. 2015. “A Generational Perspective on the History of Modern Iran.”

**Prior to UCF:**

Member: Santiago Stocker. 2013. “Targets of Terror.” Claremont Graduate University.

**MASTER’S NON-THESIS PAPER COMMITTEE:**

Member: Taylor Schaefer. 2017. “Funding Conflict: Does the Economic Activities of IGOs, Donors and Corporations Increase the Chances of Civil War Onset in Developing Nations?”

**PHD ORAL EXAMINATION COMMITTEE:**

Zlatin Mitkov, Karthikeyan Thiagarajan. 2017

Alexander Norat, Jeff Payne. 2016

Clayton Besaw, Gary Smith, Didara Nurmanova, Juliet Smith. 2015

**FACULTY MENTOR FOR THE FIRST-YEAR PHD STUDENT:**

Doreen Horschig (current as of 2018)

**PROFESSIONAL SERVICE ACTIVITIES**

**Formal Departmental Assignments at UCF:**

Peer Evaluation Advisory Committee Member 2017-2018

Graduate Assessment Committee Member 2017

PhD Committee Member 2015-Current

Methods Committee Member 2014-Current

MA Thesis Awards Committee Member 2014-2016

Computer & Technology Committee Member 2014- 2017

PhD & MA Exam Committee Member 2014-Current

Geospatial Analysis Assistant Professor Search Committee Member 2014-2015

MA Committee Member 2014-2015

**Manuscript and Book Reviewer:**

American Political Science Review, Journal of Peace Research, Journal of Political Science Education, Journal of Conflict Resolution, Conflict Management and Peace Science, European Journal of International Relations, International Studies Review, Journal of Global Security Studies, Taylor & Francis, Cambridge University Press, Sage Publications, Rowman and Littlefield

**Memberships:**

International Studies Association, American Political Science Association, American Economic Association, Peace Science Society International, Midwest Political Science Association, International Political Economy Society

**HONORS & AWARDS**

Travel Grant, the UCF Intelligence Community Center for Academic Excellence (IC CAE), 2015, 2017

Travel Grant, The National Research Foundation Joint Research Program funded by Korea Ministry of Education, 2015

University General Dissertation Grant, Claremont Graduate University, 2008-2009 (\$10,000)

University Travel Awards, Claremont Graduate University, 2007, 2008, 2010, 2011

Department Fellowship, Claremont Graduate University, 2005-2007

Research Assistantship, Claremont Graduate University, 2005-2011

**RELEVANT SKILLS**

**Language:**

Fluent in English, Japanese, and Korean

**Computing Knowledge:**

STATA, Eviews, R, WINBUGS, Mathematica, Sigmaplot, GAUSS, Scientist, ODE Architect, NetLogo, Pajek, UCINET, NodeXL Vensim, LaTeX.

**Relevant Graduate Coursework:**

Political Science: World Politics, Seminar in World Politics, Advanced International Political Economy, Special Topics in International Political Economy, Foreign and Defense Policy, Formal Foreign and Defense Models, Comparative Institutional Analysis, Nature of Political Science Inquiry

Economics: Macroeconomic Analysis I, Macroeconomic Analysis II, Microeconomic Analysis I, Math Methods for Microeconomics, Advanced Microeconomics II, American Political Economy

Methods: Econometrics I, Econometrics II, Econometrics III, Game Theory, Computational Agent-Based Modeling, Quantitative Research Methods, Advanced Quantitative Research