

# VITO D'ORAZIO

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## Employment

University of Texas at Dallas, School of Economic, Political, and Policy Sciences  
Assistant Professor of Political Science (August 2015 – Present)  
Harvard University, Institute for Quantitative Social Science  
Postdoctoral Researcher (January 2014 – June 2015)  
Visiting Research Fellow (July 2013 – December 2013)

## Education

Pennsylvania State University	Political Science	Ph.D.	2013
Pennsylvania State University	Political Science	M.A.	2010
Binghamton University	Political Science	B.A.	2008
Nassau Community College	Liberal Arts	A.A.	2006

## Achievements in Original Research

### *Peer-Reviewed Journal Publications*

2021. “The MID5 Dataset, 2011-2014: Procedures, Coding Rules, and Description” (with Glenn Palmer, Roseanne McManus, Michael Kenwick, Mikaela Karstens, Chase Bloch, Nick Dietrich, Kayla Kahn, Kellan Ritter, and Michael Soules). *Conflict Management and Peace Science*. <https://doi.org/10.1177/0738894221995743>
2020. “Conflict Forecasting and Prediction.” In the *Oxford Research Encyclopedia of International Studies*. Oxford University Press. DOI: 10.1093/acrefore/9780190846626.013.514.
2020. “The Militarized Interstate Dispute Dataset: Putting Things in Perspective” (with Glenn Palmer, Michael Kenwick, and Roseanne McManus). *International Studies Quarterly* 64(2): 480-481.
2020. “Updating the Militarized Interstate Dispute Data: A Response to Gibler, Miller, and Little” (with Glenn Palmer, Michael Kenwick, and Roseanne McManus). *International Studies Quarterly* 64(2): 469-475.
2019. “Buying Blue Helmets: Foreign Aid and the Construction of UN Peacekeeping Missions” (with Andrew Boutton). *Journal of Peace Research* 57(2): 312-328.
2019. “UTDEventData: An R package to access political event data” (with Hyoungh Ah Kim, Patrick Brandt, Jared Looper, Sayeed Salam, Latifur Khan, and Michael Shoemate). *Journal of Open Source Software* 4(36): 1322. <https://doi.org/10.21105/joss.01322>

2018. “Who is a Terrorist? Ethnicity, Group Affiliation, and Understandings of Political Violence” (with Idean Salehyan). *International Interactions* 44(6): 1017-1039.
2016. “Crowdsourcing the Measurement of Interstate Conflict” (with Michael Kenwick, Matthew Lane, Glenn Palmer, and David Reitter). *PLOS ONE* 11(6): e0156527. doi:10.1371/journal.pone.0156527.
2015. “Kickoff to Conflict: A Sequence Analysis of Intra-State Conflict Preceding Event Structures” (with James Yonamine). *PLOS ONE* 10(5): e0122472. doi:10.1371/journal.pone.0122472.
2015. “The MID4 Data Set, 2002-2010: Procedures, Coding Rules, and Description” (with Glenn Palmer, Michael Kenwick, and Matthew Lane). *Conflict Management and Peace Science* 32(2): 222-242.
2014. “Separating the Wheat from the Chaff: Applications of Automated Document Classification Using Support Vector Machines” (with Steven Landis, Glenn Palmer, and Philip Schrodt). *Political Analysis* 22(2): 224-242.
- Reprinted in *Advances in Political Methodology* by Robert Franzese Jr. (ed). Northampton, MA: Edward Elgar Publishing
  - Included in *Political Analysis* Virtual Issue 10, “Recent Innovations in Text Analysis for Social Science”
2012. “War Games: North Korea’s Reaction to US and South Korean Military Exercises.” *Journal of East Asian Studies* 12(2): 275-294.

#### *Peer-Reviewed Conference Publications*

- Forthcoming. “An Ecosystem of Applications for Modeling Political Violence” (with Aline Bessa, Sonia Castelo, Juliana Freire, Aecio Santos, and Michael Shoemate). *Proceedings of 2021 ACM SIGMOD*.
2020. “HANKE: Hierarchical Attention Networks for Knowledge Extraction in Political Science Domain” (with Erick Skorupa Parolin, Latifur Khan, Javier Osorio, Patrick Brandt, and Jennifer Holmes). *2020 IEEE International Conference on Data Science and Advanced Analytics (DSAA)*, Sydney, pp 410-419.
2020. “Experiments with One-Class SVM and Word Embeddings for Document Classification” (with Jingnan Bi and HyoungAh Kim). *2020 International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation*. Working paper. [http://sbp-brims.org/2020/proceedings/papers/working-papers/SBP-BRiMS\\_2020\\_paper\\_42.pdf](http://sbp-brims.org/2020/proceedings/papers/working-papers/SBP-BRiMS_2020_paper_42.pdf)
2020. “Automatic Event Coding Framework for Spanish Political News Articles” (with Sayeed Salam, Latifur Khan, Amir El-Ghamry, Patrick Brandt, Jennifer Holmes, and Javier Osorio). *2020 IEEE 6th Intl Conference on Big Data Security on Cloud (BigDataSecurity)*, IEEE Intl Conference on High Performance and Smart Computing, (HPSC) and IEEE Intl Conference on Intelligent Data and Security (IDS), Baltimore, MD, pp 246-253.

2019. “Modeling and Forecasting Armed Conflict: AutoML with Human-Guided Machine Learning” (with James Honaker, Raman Prasad, and Michael Shoemate). *IEEE Big Data: 3rd International Workshop on Big Data Analytics for Cyber Intelligence and Defense (BDA4CID)*, Los Angeles, CA, pp 4714-4723.

2019. “Towards Human-Guided Machine Learning” (with Yolanda Gil, James Honaker, Shikhar Gupta, Yibo Ma, Daniel Garijo, Qifan Yang, and Neda Jahanshad). *2019 ACM Intelligent User Interfaces (IUI)*, Los Angeles, CA, pp. 614-624.

2018. “TwoRavens for Event Data” (with Marcus Deng and Michael J. Shoemate). *2018 IEEE International Conference on Information Reuse and Integration (IRI)*, Salt Lake City, UT, pp. 394-401.

2017. “RePAIR: Recommend Political Actors in Real-time From News Websites” (with Mohuiddin Solaimani, Sayeed Salam, Latifur Khan, and Patrick Brandt). *2017 IEEE International Conference on Big Data (Big Data)*, Boston, MA, pp. 1333-1340.

2017. “Automatic Political Actor Recommendation in Real-Time” (with Mohuiddin Solaimani, Sayeed Salam, Latifur Khan, and Patrick Brandt). *2017 International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation*, pp. 342-348.

2015. “Error-Correction and Aggregation in Crowd-Sourcing of Geopolitical Incident Information” (with Alexander Ororbia, Yang Xu, and David Reitter) *2015 International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction*, pp. 381-387.

2014. “Statistical Modeling by Gesture: A Graphical, Browser-based Statistical Interface for Data Repositories” (with James Honaker). *Extended Proceedings of ACM Hypertext 2014*.

#### *Articles Submitted for Publication*

“Forecasting Political Instability in Africa with Automated Machine Learning” (with Yu Lin).

“Conflict Forecasting with Event Data and Spatio-Temporal Graph Convolutional Networks” (with Patrick Brandt, Latifur Khan, Yi-Fan Li, Javier Osorio, and Marcus Sianan).

#### *Original software*

*TwoRavens* (with James Honaker). System of interlocking statistical tools for data exploration, analysis, and meta-analysis. Project site: <http://2ra.vn>. Demo: [demo.2ravens.org](http://demo.2ravens.org).

*TwoRavens for Event Data*. Quick subset and aggregation of event data. Demo: [eventdata.2ravens.org](http://eventdata.2ravens.org).

*UTDEventData* (with Hyoungh Ah Kim, Patrick Brandt, Jared Looper, Sayeed Salam, Latifur Khan, and Michael Shoemate). R library to access the political event data repository at UTD. Github: [github.com/KateHyoung/UTDEventData](https://github.com/KateHyoung/UTDEventData). Project site: [eventdata.utdallas.edu/](http://eventdata.utdallas.edu/).

*PreText*. Software for the representation and automated classification of text. Github: [github.com/vjdorazio/PreText](https://github.com/vjdorazio/PreText).

## *Research in Progress*

“Transformer Models for Political Event Data” (with Patrick Brandt, Kevin Galambos, Jennifer Holmes, Latifur Khan, Javier Osorio, Erick Skorupa Parolin, Shahreen Psyche ).

“The Multinational Military Exercises Dataset” (with Kevin Galambos).

“Terrorism and Drug Trafficking in Colombia” (with Andres Sanchez).

“Towards Evaluating Exploratory Model Building Process with AutoML Systems” (with Enrico Bertini, Christopher Bethune, Sonia Castelo, Juliana Freire, Ray Hong, Scott Langevin)

## *Unrefereed Manuscripts*

2020. “Multinational Corporations and Political Violence: Trends and Forecasts” (with Alero Akporiaye and Clint Peinhardt). *SocArXiv*. DOI: 10.31235/osf.io/srgeb.

2020. “An Online Structured Political Event Dataset based on CAMEO Ontology” (with Patrick Brandt, Jennifer Holmes, Latifur Khan, Javier Osorio, and Sayeed Salam). *SocArXiv*. DOI: 10.31235/osf.io/vrt4a.

2016. “Constraining Cooperation: Military Integration and Government Repression.” *SocArXiv*. DOI: 10.31235/osf.io/38qhm.

2015. “Advancing Measurement of Foreign Policy Similarity.” *SocArXiv*. DOI: 10.31235/osf.io/fuet4.

2015. “Differential Privacy for Social Science Inference” (with James Honaker and Gary King). Sloan Foundation Economics Research Paper No. 2676160, Available at SSRN: <https://ssrn.com/abstract=2676160> or <http://dx.doi.org/10.2139/ssrn.2676160>. July 24, 2015.

2014. “A Latent Measure of Political Protest” (with Erica Chenoweth and Joseph Wright). Technical report, Political Instability Task Force. *SocArXiv*. DOI: 10.31235/osf.io/2wqfb.

## **External Funding for Original Investigations**

- 2020 - 2022 *Sustaining Modern Infrastructure for Political and Social Event Data*  
National Science Foundation # OAC-1931541 (\$588,032)  
Role: Co-PI  
Collaborators: Patrick Brandt, Jennifer Holmes, Latifur Khan, Javier Osorio
- 2017 - 2021 *TwoRavens: Intuitive Statistical Exploration, Model Extraction, and Curation*  
DARPA Data-Driven Discovery of Models # FA8750-17-2-0114 (\$1,700,000)  
Role: Co-PI (\$321,348 to UTD)  
Collaborators: James Honaker
- 2019 - 2020 *Spark-based Political Event Coding*  
National Science Foundation # SES-170012 Renewal  
XSEDE resource allocation estimated by NSF at \$125,516  
Role: Co-PI  
Collaborators: Patrick Brandt, Latifur Khan

- 2015 - 2018 *Updating the Militarized Dispute Data Through Crowdsourcing: MID5*  
 National Science Foundation # SBE-SES-1528624 (\$1,057,785)  
 Role: Principal Investigator (\$367,432 to UTD)  
 Collaborators: Glenn Palmer, David Reitter
- 2015 - 2018 *Modernizing Political Event Data for Big Data Social Science Research*  
 National Science Foundation # SBE-SMA-1539302 (\$1,497,358)  
 Role: Senior Personnel  
 Collaborators: Patrick Brandt, Jennifer Holmes, Latifur Khan, Vincent Ng
- 2017 - 2018 *Spark-based Political Event Coding*  
 National Science Foundation # TG-SES-170012 (630,720 SUs)  
 XSEDE resource allocation estimated by NSF at \$105,267  
 Role: Co-PI  
 Collaborators: Patrick Brandt, Latifur Khan

## Lectures, Presentations, and Workshops

### *Lectures, Presentations, and Workshops*

- 2020 Uppsala University, ViEWS Forecasting Competition  
 Microsoft, AI for Good  
 National Chung Hsing University (Taiwan), Global Sustainability Management  
 DARPA Data-Driven Discovery of Models Summer Workshop  
 US State Department, Center for Analytics  
 US State Department, Conflict and Stabilization Operations  
 University of Texas at Dallas, ATEC Watering Hole Series  
 Bill and Melinda Gates Foundation, World Modelers Conference  
 DARPA Data-Driven Discovery of Models Winter Workshop
- 2019 DARPA Data-Driven Discovery of Models Summer Workshop  
 University of Texas at Dallas, EPPS Advisory Committee  
 University of North Texas, Department of Political Science  
 DARPA Data-Driven Discovery of Models Winter Workshop
- 2018 American Political Science Association Event Data Workshop  
 DARPA Data-Driven Discovery of Models Summer Workshop  
 Peace Science Society, Militarized Interstate Dispute Workshop  
 University of Delaware, Data Science Institute  
 DARPA Data-Driven Discovery of Models Winter Workshop
- 2017 Harvard University, Privacy Tools for Sharing Research Data Workshop  
 DARPA Data-Driven Discovery of Models Summer Workshop  
 London School of Economics, Transnational Conflict Data Workshop  
 Harvard University, Dataverse Community Meeting  
 DARPA Data-Driven Discovery of Models Kickoff Event  
 Ohio State University, Democracy, the State, and Protest
- 2016 Baylor University, Texas Digital Library Data Symposium  
 Harvard University, Dataverse Community Meeting  
 Political Instability Task Force, Machine-Learning and Automated Data Collection

- University of Texas at Dallas, Seventh Conference on Political Violence and Policy  
 University of Houston, Political Economy of Risk Conference  
 Pennsylvania State University, Militarized Interstate Dispute Workshop  
 University of Central Florida, Department of Political Science  
 2015 University of Texas at Dallas, Event Data Workshop  
 Harvard University, Dataverse Community Meeting  
 University of Navarra (Spain), Economics, Leadership, and Governance Program  
 2014 University of Texas at Dallas, School of Economic, Political, and Policy Studies  
 University of Exeter (United Kingdom), Department of Politics  
 Wesleyan University, Quantitative Analysis Center  
 University of California at Davis, Militarized Interstate Dispute Workshop  
 Political Instability Task Force Winter Workshop  
 Kansas State University, Department of Political Science

*Conference Participation–Presentations*

American Political Science Association	2011, 2012 (conference canceled), 2013 (poster), 2015, 2018
Peace Science Society	2010 (poster), 2012, 2013, 2014 (workshop), 2015 (poster), 2016, 2018
International Studies Association	2011, 2013, 2014, 2017, 2019
Political Methodology	2012 (poster), 2015, 2017 (poster), 2018
Midwest Political Science Association	2010, 2011, 2012, 2015, 2017, 2018
Texas Triangle	2016, 2017, 2020, 2021
APSA Teaching and Learning	2016
Peace Science Society (Asia)	2016
Southern Political Science Association	2019, 2021

*Conference Participation–Discussant*

International Studies Association	2014, 2019
Midwest Political Science Association	2015, 2017
St. Louis Area Methods Meeting	2018
American Political Science Association	2018
Southern Political Science Association	2019, 2021

**Teaching**

*Classroom teaching—University of Texas at Dallas*

- 2021, Spring, EPPS 6316, Applied Regression  
 2021, Spring, PSCI/PPOL 4302, Data and Policy  
 2020, Fall, PSCI/PPPE 6302, Political Violence and Conflict in Cyberspace  
 2020, Spring, EPPS 6316, Applied Regression  
 2020, Spring, PSCI 4359, International Conflict

2019, Fall, PSCI 3328, International Relations  
 2019, Fall, PSCI 7330, International Conflict  
 2019, Spring, EPPS 6316, Applied Regression  
 2019, Spring, PSCI 4302, Data and Policy  
 2018, Fall, EPPS 6359, Concepts and Measurement  
 2018, Fall, PSCI 3328, International Relations  
 2018, Spring, EPPS 6316, Applied Regression  
 2018, Spring, PSCI 4359, International Conflict  
 2017, Fall, PSCI 4302, Data and Policy  
 2017, Fall, PSCI 3328, International Relations  
 2017, Spring, EPPS 6316, Applied Regression  
 2016, Fall, PSCI 7330, International Conflict  
 2016, Fall, PSCI 3328, International Relations  
 2016, Spring, EPPS 7V81, Concepts and Measurement  
 2015, Fall, PSCI 3328, International Relations

*Classroom teaching—University of Navarra*

2015, Winter, Scientific Study of International Relations (2 week course)

*Classroom teaching—Pennsylvania State University*

2012, Summer, Introduction to International Relations

*Doctoral advisement/direction:*

Erjok Erjok	Proposal in progress Fall 2020 The Al-Shabaab Terrorism Spillover from Somalia and its Impact on Kenya
Kevin Galambos	Proposal defended Summer 2020 (UT Austin) Exploring Multinational Military Exercises: A Prospectus on International Security Cooperation
Brent J. Sackett	Proposal defended Winter 2019 Who Pays? Who Benefits? NATO Burden-Sharing in the Third Phase: Crisis Response and Asymmetric Military Capabilities
Danielle Zaychik	Proposal defended Fall 2018 Three Studies in Disaster Mortality and Mortality Data
Aaron Lebo	Proposal defended Spring 2017 Information Competition and Social Media Networks
Misty Parker	Dissertation defended Summer 2020 'Stereotyping' the American Electorate: An Examination of What Drives Turnout in the Electoral Periphery
Soham Das	Dissertation defended Summer 2020 Ethnic Conflict: Multimethod Analysis of Underlying and Facilitating Conditions
Austin Kingsolver	Dissertation defended Summer 2019 Polarization and the Supreme Court
Randell Torno	Dissertation defended Winter 2017 The Arc of Conflict: Three Articles on the "Life" of a Conflict

## Service

### *Journal Reviewer*

American Journal of Political Science, Comparative Political Studies, Conflict Management and Peace Science, F1000 Research, Foreign Policy Analysis, International Interactions, International Peacekeeping, International Security, International Studies Quarterly, International Studies Review, Journal of Conflict Resolution, Journal of East Asian Studies, Journal of Peace Research, Media War and Conflict, PLOS ONE, Political Analysis, Political Research Quarterly, Political Science Research and Methods, Public Opinion Quarterly, Research and Politics, Social Science Computer Review

### *Grant Reviewer*

National Science Foundation, 2019  
Sloan Foundation, 2017

### *Program Committee Member*

Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS), 2020  
Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS), 2019

### *University and Department Service—University of Texas at Dallas*

Committee Member, Methodological Qualifying Exam, 2017-present  
Founder and Organizer, Working Paper Series, 2018-present  
Committee Member, Political Science new faculty search, 2018, 2019  
Ad Hoc Committee Member, Peace and Conflict Studies concentration, 2015-present  
Outside Chair, Dissertation in Arts and Technology, Spring 2017  
Outside Chair, Dissertation in Behavioral and Brain Sciences, Fall 2018

### *University and Department Service—Penn State University*

President, Graduate Association of Political Science (2011-2012)  
Founder and Organizer, Political Methodology Brown Bag (2011-2012)

## Awards

2013 - 2014, *Using Crowdsourcing To Measure Complex Social Concepts: A Pilot Study*. Vito D’Orazio, Glenn Palmer, David Reitter, and Michael Schmierbach. Social Science Research Institute at Penn State (\$20,000).

2012. Dissertation support grant. College of Liberal Arts at Penn State (\$2,000).

2011 - 2012. Predoctoral Fellowship. Quantitative Social Science Initiative, Penn State University.



2012. Summer Graduate Research Award. Department of Political Science, Penn State University.

2011. ISA Travel Grant awarded for *War Games*. International Studies Association.

2008 - 2009. Florence and Angelo Paterno Graduate Fellowship. Department of Political Science, Penn State University.

## **Graduate and Undergraduate Research Experience**

2012–2013	Joseph Wright	Regional Dynamics and Regime Disruption in Dictatorships
2009–2011	Glenn Palmer	Militarized Interstate Dispute 4 Project
Summer 2010	Philip Schrodt	Integrated Crisis Early Warning Systems
Spring 2007	David Cingranelli	CIRI Human Rights Dataset

## **Additional Training**

*University of Michigan*, ICPSR  
Game Theory I and II (Summer 2009)

*Binghamton University*, Middle East and North African Program  
Certificate in Middle Eastern and North African Studies (Spring 2008)

*Al Akhawayn University*, Intensive Arabic Summer Program  
Intermediate Arabic (Summer 2007)