

VITO D'ORAZIO

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Employment

University of Texas at Dallas, School of Economic, Political, and Policy Sciences
Associate Professor of Political Science (August 2021 – Present)
Assistant Professor of Political Science (August 2015 – July 2021)
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

Forthcoming. “Forecasting Conflict in Africa with Automated Machine Learning Systems” (with Yu Lin). *International Interactions*.

– This research won the Violence Early Warning System’s subnational conflict forecasting competition for “predictive accuracy” and split the win for “originality.”

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

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

2021. "Data-Driven Time Series Forecasting for Social Studies Using Spatio-Temporal Graph Neural Networks" (with Yi-Fan Li, Bo Dong, Latifur Khan, Bhavani Thuraisingham, and Patrick T. Brandt). *2021 Conference on Information Technology for Social Good (GoodIT '21)*, pp 61-66.
2021. "CoMe-KE: A New Transformers Based Approach for Knowledge Extraction on Conflict and Mediation Domain" (with Erick Parolin, Yibo Hu, Latifur Khan, Patrick Brandt, and Javier Osorio). *IEEE International Conference on Big Data (IEEE BigData)*.

2021. “An Ecosystem of Applications for Modeling Political Violence” (with Aline Bessa, Sonia Castelo, Aécio Santos, Michael Shoemate, and Juliana Freire). *2021 ACM International Conference on Management of Data (SIGMOD)*, pp 2384-2388.
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
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 Mohuidin 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 Mohuidin 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*.

Working Papers

“When Conflict Forecasts are Reliable, and When They’re Not”

“ConflIBERT: A pre-trained Language Model for Political Conflict and Violence” (Patrick Brandt, Mohammad Saleh Hosseini, Yibo Hu, Latifur Khan, Javier Osorio, Erick Skorupa Parolin). *Under review*.

“Revamping Automated Event Data Using ConflIBERT” (with Patrick Brandt and Javier Osorio).

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.

TwoRavens for Event Data. Quick subset and aggregation of event data. Demo: eventdata.2ravens.org.

UTDEventData (with HyoungAh 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. Project site: eventdata.utdallas.edu/.

PreText. Software for the representation and automated classification of text. Github: github.com/vjdorazio/PreText.

Data Projects

Militarized Interstate Disputes (collaborative). correlatesofwar.org/data-sets/MIDs.

Multinational Military Exercises (with Kevin Galambos). dataverse.harvard.edu/dataverse/mme.

UTDEventData (collaborative). Github: github.com/eventdata. Project site: eventdata.utdallas.edu/.

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

- 2021 University of Virginia, School of Data Science
West Virginia University, Data Science and Political Science
National Chung Hsing University (Taiwan), Data Analytics Colloquium
DARPA MILEI Soft Kickoff Meeting
- 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 Purdue University, Department of Political Science
 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
Text as Data	2021 (poster)

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

University of Texas at Dallas

2022, Spring, EPPS 6316, Applied Regression
 2022, Spring, PSCI/PPPE 6302, Political Violence and Conflict in Cyberspace
 2021, Fall, EPPS 6355, Content Analysis
 2021, Fall, PSCI 4396, War in Afghanistan
 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

University of Navarra

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

Pennsylvania State University

2012, Summer, Introduction to International Relations

Doctoral advisement/direction:

Erjok Erjok	Proposal defended Summer 2021 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
Aaron Lebo	Proposal defended Spring 2017 Information Competition and Social Media Networks
Brent J. Sackett	Dissertation defended Fall 2020 Who Pays? Who Benefits? NATO Burden-Sharing in the Third Phase: Crisis Response and Asymmetric Military Capabilities
Danielle Zaychik	Dissertation defended Fall 2020 Three Studies in Disaster Mortality and Mortality Data
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

Professional Service

Member

Advisory Board, Correlates of War, 2021-2023

Programm Committee, Social Computing, Behavioral-Cultural Modeling & Prediction and
Behavior Representation in Modeling and Simulation (SBP-BRiMS), 2019, 2020, 2021

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 Choice, Public Opinion Quarterly, Research and Politics, Social Science Computer Review

Grant Reviewer

National Science Foundation, Sloan Foundation

University and Department Service—University of Texas at Dallas

Committee Member, Institutional Review Board, 2021-present

Committee Member, Methodological Qualifying Exam, 2017-present

Committee Member, 3rd Year Review, 2021

Outside Chair, Dissertation in Economics, 2020

Founder and Organizer, Working Paper Series, 2018-2021

Committee Member, EPPS new faculty search, 2018, 2019, 2020

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

2021, J. David Singer Data Innovation Award: Militarized Interstate Dispute (MID) Data. American Political Science Association, Conflict Processes Section. Awarded to Glenn Palmer and the MID team: Charles Gochman, Daniel Jones, Faten Ghosn, J. David Singer, Matthew Lane, Michael Kenwick, Mikaela Karstens, Roseanne McManus, Stuart Bremer, Vito D'Orazio, Zeev Maoz

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)