Timothy R. McDade

tim.mcdade@duke.edu \parallel https://trmcdade.github.io/+1.443.564.6116 \parallel Durham, NC, USA

Education	PhD program: Duke University Political Science: Political Economy, Quantitative Methods	2018 –	
	BS, Honors: The College of William & Mary Mathematics and Chinese Language & Literature	2008 – 2012	
	Tsinghua University Coursework in Chinese Language and Culture	2010	
Work Experience	DevLab@Duke: Durham, NC, USA	2018 –	
	 Research Associate, Machine Learning for Peace Scraped international media sources to construct an event data set as input to a natural language processing algorithm that predicts democratic backsliding, civil space closures, and authoritarian influence across the world. Constructed data set of economic indicators for inclusion in event prediction model. 		
	- Managed undergraduate research assistants.		
	Microsoft: Beijing, China and Redmond, WA, USA Data Scientist, Microsoft Azure Business Analytics - Led market analytics for China Azure.	2012 - 2018 $2014 - 2018$	
	 Relocated to Beijing in August 2016 to provide deeper in-country context, make specific recommendations based on the geopolitical climate, and improve the relationship between the Chinese and USA Azure teams. 		
	 Built analytical tools to inform executive decisions in these key area Strategy to improve market standing as a foreign company in C improvement of web direct business (B2C) to capitalize on the cloud computing. 	hina: advocated the	
	 Price changes based on data from competitive analyses and pr lations. 	-	
	 Mitigation of data center capacity constraints based upon analy age trends. More effective marketing compaigns via lifetime value analysis.		
	 More effective marketing campaigns via lifetime value analysis conversion analysis. Introduction of machine learning models to reduce customer ch 	_	
	 tier customers. Delivered data-driven and market-based insights that influenced business decisions leading to 731% growth in Microsoft Azure China's monthly revenue over 27 months. Led a team of four on-site and offshore contractors. 		
	Program Manager, MACH IT Rotation Program Delivered four contracts resulting in \$337,500 revenue.	2012 – 2014	
	The College of William & Mary: Williamsburg, VA, USA Researcher, Computational Science in the Mathematical Sciences	2010 – 2012 2011 – 2012	

Researcher, W&M Global Business Immersion

2010 - 2011

Honors, Distinctions, and Awards

Duke University

- Summer Institute in Computational Social Science,
 Russell Sage Foundation and Alfred P. Sloan Foundation: 2019.
- Departmental Fellowship, Department of Political Science: 2018, 2019, 2020.
- Summer Research Fellowship, Duke Graduate School: 2019, 2020.

The College of William & Mary

- Monroe Scholar: ranked in the top 5% of Class of 2012 admitted students. Awarded funding for summer research.
- Dean's List: Fall 2011 & Spring 2012.

Languages

Mandarin Chinese (advanced), Spanish (advanced)

Skills

Technical skills:

- Python, R, SQL, Unix/Bash, Git, Stata, Matlab, LaTeX
- Quantitative analysis, time series analysis, advanced regression and statistics, forecasting, machine learning, factor analysis, natural language processing, data management

Business skills:

- Synthesis of academic, technical, business, and strategic material to recommend action to varied groups of stakeholders.
- Synthesize, organize, and evaluate huge amounts of data and evidence both quantitative and qualitative.
- Detail-oriented, but able to connect to the bigger picture.
- Project and people management.
- Use evidence to advocate a position or strategy.
- Construct evidence-based theories of change.

Working Papers

McDade, Timothy, Multilateral Constraints on Chinese Behavior in South China Sea Territorial Disputes (March 10, 2020). Duke Global Working Paper Series No. 19. Available at SSRN: https://ssrn.com/abstract=3552183 or http://dx.doi.org/10.2139/ssrn.3552183

Economic Determinants of Protest

Ownership Concentration of Government Bond Markets

Debt Issuances and Elections (with Layna Mosley and B. Peter Rosendorff)

The Effect of COVID-19 and Economic Stimulus on Food Security (with Molly Jacobs, Mateo Villamizar Chaparro, and Michelle Corea)

Invited Presentations

February 2020: UT Austin, Restraint and National Security Conference

Departmental Service

Duke University

Research Assistant, Professor Scott de Marchi	2018 - 2019
Research Assistant, Professor Erik Wibbels	2019 - 2021
Teaching Assistant, Professor Michael Munger	2020 - 2021
Teaching Assistant, Professor Alexander Rosenberg	2021

Teaching	Political Science 145: Introduction to Political Economy (Fall 2020)
Professional	American Political Science Association
Affiliations	International Studies Association