

Timothy R. McDade

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Education	PhD program: Duke University	2018 –
	Political Science: Political Economy, Quantitative Methods	
	Passed qualifying and preliminary examinations.	
	BS, Honors: The College of William & Mary	2008 – 2012
	Mathematics and Chinese Language & Literature	
	Tsinghua University	2010
	Coursework in Chinese Language and Culture	
Work Experience	DevLab@Duke: Durham, NC, USA	2018 –
	<i>Research Associate, Machine Learning for Peace</i>	2018 –
	<ul style="list-style-type: none">- 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	2012 – 2018
	<i>Data Scientist, Microsoft Azure Business Analytics</i>	2014 – 2018
	<ul style="list-style-type: none">- Led market analytics for China Azure.- 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 areas:<ul style="list-style-type: none">- Strategy to improve market standing as a foreign company in China: advocated the improvement of web direct business (B2C) to capitalize on the scalable nature of cloud computing.- Price changes based on data from competitive analyses and price elasticity calculations.- Mitigation of data center capacity constraints based upon analysis of customer usage trends.- More effective marketing campaigns via lifetime value analysis and cost-per-trial conversion analysis.- Introduction of machine learning models to reduce customer churn and identify top 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.	
	<i>Program Manager, MACH IT Rotation Program</i>	2012 – 2014
	Delivered four contracts resulting in \$337,500 revenue.	
	The College of William & Mary: Williamsburg, VA, USA	2010 – 2012
	<i>Researcher, Computational Science in the Mathematical Sciences</i>	2011 – 2012
	<i>Researcher, W&M Global Business Immersion</i>	2010 – 2011

Publications

Timothy R. McDade. What can insurance tell us about the capitol mob? *Foreign Policy*, January 2021 (link [here](#)).

Timothy R. McDade. Who's surprised by gamestop? not me!, February 2021 (link [here](#)).

Working Papers

Timothy R. McDade. Multilateral constraints on chinese behavior in south china sea territorial disputes. *Duke Global Working Paper Series*, (19), March 2020 (link [here](#) or [here](#)).

Timothy R. McDade. Economic determinants of protest, 2021

Timothy R. McDade. Ownership concentration of government bond markets, 2021

Timothy R. McDade, Layna Mosley, and B Peter Rosendorff. Political shocks and sovereign borrowing, 2021

Timothy R. McDade, Mateo Villamizar Chaparro, Molly Jacobs, and Michelle Corea. The effect of covid-19 and economic stimulus on food security, 2021

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.
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Honors, Distinctions, and Awards

Duke University

- Bradley Foundation Grant Funding (\$7,000): 2021.
- Walter T. Molano Research Grant (\$3,000): 2021.
- Departmental Fellowship, Department of Political Science: 2018, 2019, 2020.
- Summer Research Fellowship, Duke Graduate School: 2019, 2020.
- Summer Institute in Computational Social Science, Russell Sage Foundation and Alfred P. Sloan Foundation: 2019.

The College of William & Mary

- Monroe Scholar: ranked in the top 5% of Class of 2012 admitted students. Awarded summer research fellowship (\$3,000).
 - Dean's List: Fall 2011 & Spring 2012.
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Invited Presentations	February 2020: UT Austin, Restraint and National Security Conference
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Departmental Service	Duke University	
	<i>Research Assistant, Professor Scott de Marchi</i>	2018 – 2019
	<i>Research Assistant, Professor Erik Wibbels</i>	2019 – 2021
	<i>Teaching Assistant, Professor Michael Munger</i>	2020 – 2021
	<i>Teaching Assistant, Professor Alexander Rosenberg</i>	2021

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