

Timothy R. McDade

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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, Duke University <i>Research Associate, Machine Learning for Peace</i>	2018 –
	<ul style="list-style-type: none">- Scrape 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 <i>Data Scientist, Microsoft Azure Business Analytics</i>	2012 – 2018 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> Delivered four contracts resulting in \$337,500 revenue.	2012 – 2014
	The College of William & Mary, Williamsburg, VA, USA <i>Researcher, Computational Science in the Mathematical Sciences</i>	2010 – 2012 2011 – 2012
	<i>Researcher, W&M Global Business Immersion</i>	2010 – 2011

Honors, Distinctions, and Awards	<p>Duke University</p> <ul style="list-style-type: none"> - Summer Institute in Computational Social Science, Russell Sage Foundation and Alfred P. Sloan Foundation. June 2019. - Departmental Fellowship, Department of Political Science: 2018, 2019, 2020. <p>The College of William & Mary</p> <ul style="list-style-type: none"> - 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	<p>Technical skills:</p> <ul style="list-style-type: none"> - Python, R, SQL, GitHub, Stata, Matlab, LaTeX - Quantitative analysis, advanced regression and statistics, forecasting, machine learning, factor analysis, natural language processing, data management <p>Business skills:</p> <ul style="list-style-type: none"> - 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	<p>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</p> <p>Economic Determinants of Protest</p> <p>Ownership Concentration of Government Bond Markets</p> <p>Debt Issuances and Elections (with Layna Mosley and B. Peter Rosendorff)</p> <p>The Effect of COVID-19 and Economic Stimulus on Food Security (with Molly Jacobs, Mateo Villamizar Chaparro, and Michelle Corea)</p>								
Invited Presentations	February 2020: UT Austin, Restraint and National Security Conference								
Departmental Service	<p>Duke University</p> <table> <tr> <td><i>Research Assistant, Professor Scott de Marchi</i></td> <td>2018 – 2019</td> </tr> <tr> <td><i>Research Assistant, Professor Erik Wibbels</i></td> <td>2019 – 2021</td> </tr> <tr> <td><i>Teaching Assistant, Professor Michael Munger</i></td> <td>2020 – 2021</td> </tr> <tr> <td><i>Teaching Assistant, Professor Alexander Rosenberg</i></td> <td>2021</td> </tr> </table>	<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
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Teaching	Political Science 145: Introduction to Political Economy (Fall 2020)
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Professional Affiliations	American Political Science Association
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