

## Timothy R. McDade

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Durham, NC, USA

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<b>Education</b>	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

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<b>Work Experience</b>	DevLab@Duke, Duke University <i>Research Associate, Machine Learning for Peace</i>	2018 –
	<ul style="list-style-type: none"><li>- 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.</li><li>- Constructed data set of economic indicators for inclusion in event prediction model.</li><li>- Managed undergraduate research assistants.</li></ul>	
	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"><li>- Led market analytics for China Azure.</li><li>- 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.</li><li>- Built analytical tools to inform executive decisions in these key areas:<ul style="list-style-type: none"><li>- 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.</li><li>- Price changes based on data from competitive analyses and price elasticity calculations.</li><li>- Mitigation of data center capacity constraints based upon analysis of customer usage trends.</li><li>- More effective marketing campaigns via lifetime value analysis and cost-per-trial conversion analysis.</li><li>- Introduction of machine learning models to reduce customer churn and identify top tier customers.</li></ul></li><li>- 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.</li><li>- Led a team of four on-site and offshore contractors.</li></ul>	
	<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&amp;M Global Business Immersion</i>	2010 – 2011

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<b>Honors, Distinctions, and Awards</b>	<p>Duke University</p> <ul style="list-style-type: none"> <li>- Summer Institute in Computational Social Science, Russell Sage Foundation and Alfred P. Sloan Foundation. June 2019.</li> <li>- Departmental Fellowship, Department of Political Science: 2018, 2019, 2020.</li> </ul> <p>The College of William &amp; Mary</p> <ul style="list-style-type: none"> <li>- Monroe Scholar: ranked in the top 5% of Class of 2012 admitted students. Awarded funding for summer research.</li> <li>- Dean's List: Fall 2011 &amp; Spring 2012.</li> </ul>								
<b>Languages</b>	Mandarin Chinese (advanced), Spanish (advanced)								
<b>Skills</b>	<p>Technical skills:</p> <ul style="list-style-type: none"> <li>- Python, R, SQL, GitHub, Stata, Matlab, LaTeX</li> <li>- Quantitative analysis, advanced regression and statistics, forecasting, machine learning, factor analysis, natural language processing, data management</li> </ul> <p>Business skills:</p> <ul style="list-style-type: none"> <li>- Synthesis of academic, technical, business, and strategic material to recommend action to varied groups of stakeholders.</li> <li>- Synthesize, organize, and evaluate huge amounts of data and evidence — both quantitative and qualitative.</li> <li>- Detail-oriented, but able to connect to the bigger picture.</li> <li>- Project and people management.</li> <li>- Use evidence to advocate a position or strategy.</li> <li>- Construct evidence-based theories of change.</li> </ul>								
<b>Working Papers</b>	<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: <a href="https://ssrn.com/abstract=3552183">https://ssrn.com/abstract=3552183</a> or <a href="http://dx.doi.org/10.2139/ssrn.3552183">http://dx.doi.org/10.2139/ssrn.3552183</a></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>								
<b>Invited Presentations</b>	February 2020: UT Austin, Restraint and National Security Conference								
<b>Departmental Service</b>	<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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<b>Teaching</b>	Political Science 145: Introduction to Political Economy (Fall 2020)
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<b>Professional Affiliations</b>	American Political Science Association International Studies Association
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