Timothy R. McDade

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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 – 201		
	Tsinghua University Coursework in Chinese Language and Culture	2010	
Work	DevLab@Duke: Durham, NC, USA	2018 –	
Experience	 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

- Grant Funding, Bradley Foundation (\$7,000): 2021.
- Summer Research Fellowship, Department of Political Science (\$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 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.

Publications		
Working		
Panera		
Presentations		

February 2020: UT Austin, Restraint and National Security Conference

Departmental

Duke University

Service	Research Assistant, Professor Scott de Marchi
	Research Assistant, Professor Erik Wibbels
	Teaching Assistant, Professor Michael Munger
	Teaching Assistant, Professor Alexander Rosenberg

2018 -	- 2019
2019 -	- 2021
2020	2021

2020 – 2021

2021

Teaching Political Science 145: Introduction to Political Economy (Fall 2020)

Professional Affiliations

American Political Science Association International Studies Association