

DANIEL L. MUISE

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I study the effects of Internet capacity on the development of political and economic institutions. I have a contextual focus on Myanmar and Southeast Asia, and a methodological focus on experiments and computational analysis.

EDUCATION

Stanford University Ph.D/M.A. Communication (Adv. Jennifer Pan) <i>Topic: Internet effects on political development and transition, SE Asia</i>	<i>2016 - 2021(expected)</i>
University of Massachusetts Lowell, Honors College B.A. Political Science, minor in Asian Studies B.A. Economics	<i>2012 - 2016</i> <i>summa cum laude</i> <i>summa cum laude</i>

RESEARCH EXPERIENCE, GENERAL

Mobile Data Field Research in Myanmar <i>Stanford University Communication Department</i>	July 2017 <i>Myanmar (Burma)</i>
Led a local team in mobile-usage data collection for the Stanford Cyber Social Project using a custom phone-tracking app and ethnographic interviews.	
Differential Privacy Algorithm Development <i>Harvard University SEAS & Institute for Quantitative Social Science</i>	June 2015 - August 2016 <i>Cambridge MA</i>
As part of the National Science Foundation's Privacy Tools for Sharing Research Data Project, I helped design evaluation methods for differentially private statistical algorithms. I also designed user experience test plans and mentored an intern in this capacity. See presentations and software.	
Economic Modeling and Lab Experimentation <i>University of Massachusetts</i>	January 2014 - August 2016 <i>Lowell, MA</i>
Co-designed and executed a lab experiment to measure substitutability between sanctioning and communication when seeking mutual trust (in press). Separately, I modeled and empirically evaluating competing theories on immigration and wage-depression.	
Myanmar Human Capital Solutions (MHCS) <i>Labor Market Researcher</i>	May 2014 - August 2014 <i>Yangon, Myanmar</i>
I designed and implemented surveys regarding the educational and career prospects of the Yangon middle-class and various local corporate executives, and analyzed and presented findings for the company's director.	
UMass Political Science: Myanmar Ethnographic Politics <i>Undergraduate Researcher</i>	May 2013 - May 2014 <i>Lowell, MA</i>
Assisted Prof. Ardeth Thawngmung in drafting her forthcoming book on the micro-level political coping strategies of the poor in Myanmar.	

PUBLICATIONS · PRESENTATIONS · SOFTWARE

Publications, working papers

Kingsley, D. & Muise, D. (2018). More Talk, Less Need for Monitoring: Communication and Deterrence in a Public Goods Game. *Journal of Experimental Political Science*, 5(1).

Muise, D. & Pan, J. (under review). Online Experiments for Communication Research in Asia.
Muise, D. & Pan, J. (working paper). Facebook Adoption among Myanmar's Political Parties.
Muise, D. & Nissim, K. (2016). Differential Privacy in Cumulative Distribution Functions: a Guidebook for Social Scientists. *Privacy Tools for Sharing Research Data Project*, Harvard University. (link)

Presentations

Muise, D., Reeves, B., Pan, J. (2017). What is *News*? Realigning the *News* Definition with Millions of Consumer Screenshots. *Computation + Journalism Symposium*. Northwestern University.
Muise, D. (2016). Information Communication Technology in Myanmar under the Theory of Innovative Enterprise. *Annual Student Southeast Asian Studies Conference*, Northern Illinois University.
Muise, D., Nissim, K., Bun, M., and Balcer, V. (2015). Differentially Private Cumulative Distribution Function Evaluation and Development. Presented at the *National Science Foundation Site Visit to the Privacy Tools for Sharing Research Data Project*, Harvard SEAS.

Software

Muise, D., Kobliner Nissim, & Georgios Kellaris (2016). CDF.PSIdekick: Public R Package for Evaluating, Visualizing and Comparing Algorithms for Creating Differentially Private Cumulative Distribution Functions and Probability Densities. Allows customizable parameter sampling and Monte Carlo simulation while maintaining theoretical boundaries, and produces versatile plots for comparison and sharing. *Made as part of Harvard Privacy Tools Project and PSI data-querying system; available on CRAN repositories.* (link)

RELATED EXPERIENCE

Enlightened Myanmar Research: Accelerated Stata Course <i>Teaching Assistant</i>	2016 <i>Yangon, Myanmar</i>
87.9 MandalayFM <i>English-Language Radio Host</i>	2014 - 2015 <i>Yangon, Myanmar</i>
Greater Mekong Region Development Investment Conference <i>Special Research Delegate</i>	2015 <i>Global Euromoney Conferences, Bangkok</i>
TEDx Lowell 2014 <i>Host and Co-organizer</i>	2013 - 2014 <i>UMass Lowell Honors Ambassador Council</i>

LANGUAGES & SKILLS

Data and Programming Languages	R, Python, Stata, SPSS, LaTeX, Z-Tree
Other Knowledge Areas	English, Chinese (Proficient), Burmese (basic/functional) statistical inference, data privacy, broadcast media, Myanmar/SE Asia

AWARDS & HONORS

Facebook PAC Award: Political Parties Online in Myanmar (w/ Jennifer Pan)	2017
Stanford Screenomics Laboratory Doctoral Student Affiliate	2017
Research Assistantship: Stanford Cyber Initiative support	2017
Research Assistantship: Knight Foundation support for News in Screenshots	2017
Doctoral Fellowship: Enhancing Diversity in Graduate Education	2016
National Science Foundation REU Fellowship Recipient, Harvard University	2015
Member of Pi Sigma Alpha, Political Science Honors Society	2015
Member of Omicron Delta Epsilon, Economics Honors Society	2015
UMass Lowell Outstanding Social Science/Humanities Student 2015	2015
Undergraduate Honors Research Fellowships (x3)	2013-2015
University of Massachusetts Full Merit Scholarship	2012-2016