

Dan Muise

PH.D. CANDIDATE, COMMUNICATION, STANFORD UNIVERSITY

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Webpage : danmuise.com
Lab 1 : Screenomics Lab @ Stanford Univ
Lab 2 : Project Ratio @ Harmony Labs

PROFILE Top-level graduate student in computational social science, experienced in all stages of data-driven social research: design, data collection, analysis, & implementation. Specific experience in media tracking, news, politics, data privacy, and emerging markets.

EDUCATION

Stanford University	
<i>Ph.D.</i> , Communication	2022
<i>M.A.</i> , Communication	2019
University of Massachusetts	
<i>B.A.</i> , Political Science; <i>B.A.</i> , Economics; <i>Summa Cum Laude</i>	2016

EXPERIENCE

PhD Intern: Quantitative UX Research	2019-pres
<i>Facebook: Instagram Shopping</i>	
Designed & distributed UX survey to millions of users internationally, provided key insights to engineering teams for machine learning initiatives	
Using Qualtrics, R, SQL, database tools	
PhD Intern: Computational Media Economics	2019-pres
<i>Microsoft Research (MSR), New York City</i>	
Analyzed <u>billions</u> of hours of TV & browser panel data, measuring news echo chambers	
Using streaming computation, <u>network analysis</u> , video visualization, R, Ubuntu	
Lead author on large-group collaboration	
Co-Designer/Manager: National Data Collection & Field Experiment	2017-pres
<i>Stanford Screenomics Lab</i>	
Created system for recruitment and smartphone tracking for media psychology	
Advanced randomization to measure <u>causal</u> effect of social media on news consumption	
Using GCloud compute/storage, <u>Firebase</u> , Qualtrics, image proc, HTML, R	
Field Research in Myanmar: Smartphone Data Collection	2017-2018
<i>Stanford Screenomics Lab</i>	
Led a local team, recruited & managed participants in Yangon	
Algorithm Testing & UX Design: Differential Privacy	2015-2016
<i>Harvard University School of Engineering & Applied Science, & IQSS</i>	
Designed & conducted empirical tests of theoretical differential privacy algorithms	
Designed <u>UX evaluation</u> procedures and outreach to social scientists	

SELECT PUBLICATIONS

Screenomics: A Framework to Capture and Analyze Personal Life Experiences and the Ways that Technology Shapes Them. (with B. Reeves et al.). *Human-Computer Interaction*, 2019. Vol 1, No. 52. Reported in *New York Times*.

Online Experiments for Communication Research in Asia. (with J. Pan) *Asian Journal of Communication*, 2019. V 1:18.

More Talk, Less Need for Monitoring: Communication and Deterrence in a Public Goods Game. (with D. Kingsley). *J. of Experimental Political Science*, 2017. V 1:19.

Differential Privacy in Descriptive Statistics: a Guidebook for Social Scientists. (with K. Nissim and G. Kellaris). Technical Report, 2016.

SELECT AWARDS

Grant	Brown Institute Grant for Media Innovation	2019
Fellowship	Stanford Data Science Institute: year-long doctoral funding	2018
Grant	Stanford University Freeman Spogli Institute award	2018
Grant	Stanford University <i>EDGE</i> research grant	2018

Grant	Stanford University Abassi Program research grant for fieldwork in SE Asia	2018
Grant	Facebook PAC Award: Politics Online in Myanmar (w/ J. Pan)	2017
Award	Research Assistantships: Stanford Cyber Initiative & Knight Foundation	2017
Award	National Science Foundation REU Fellowship Recipient, Harvard University	2015
Scholarship	University of Massachusetts Full Undergraduate Scholarship	2012

LANGUAGES & SKILLS

- **Data & Programming:** R, Python, SQL, Stata, GCloud, bash, LaTeX, HTML, zTree, tmux, VPNs
- **Languages:** English (native), Chinese (proficient), Burmese (basic)
- **Keywords:** Computational Social Science, news exposure, causal inference, experiment design, statistics, data privacy, classic ML, content analysis, sentiment analysis, comparative politics, experimental economics, Screenomics, Southeast Asia, Myanmar

TEACHING EXPERIENCE & OTHER

Stanford University: Communication Research Methods (COMM 206)	2019
<i>Assistant to Prof. Jennifer Pan</i>	
Stanford University: Censorship and Propaganda (COMM 258)	2018
<i>Assistant to Prof. Jennifer Pan</i>	
Enlightened Myanmar Research: Accelerated Stata Course	2016
<i>Assistant to Prof. Jenifer Whitten-Woodring</i>	
Yangon, Myanmar: Radio Host & Live Performer	2015
<i>87.9 Mandalay F.M.: Programmed and hosted; performed music live on-air.</i>	
Journal of Visualized Experiments: Professional Voiceover & Editing	2015
Read scripts for science education videos, self-managed audio recording	2014
Myanmar Human Capital Solutions	
Designed & conducted surveys & interviews of employees	CEOs

REFERENCES

- **Prof. Jennifer Pan**
Stanford University; Communication (CSS); PhD Adviser
jp1@stanford.edu
- **Prof. Byron Reeves**
Stanford University; Communication (Media Psych)
reeves@stanford.edu
- **Prof. Ardeth Thawngmung**
U.Massachusetts; Political Science & Burma Studies; Undergrad Adviser
Ardeth.Thawngmung@gmail.com
- **Prof. Kobbi Nissim**
Georgetown University; Theoretical Computer Science; Research Mentor
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- **David Rothschild, Ph.D.**
Microsoft Research, NYC; Economist
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