

Annie Y. Chen

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Data Analyst Experience

RESEARCH ASSOCIATE, *Aug. 2020 - Aug. 2021*
QUANTITATIVE SOCIAL SCIENCE, DARTMOUTH COLLEGE
RESEARCH FELLOW, [BRIGHT LINE WATCH](#)

- Build pipeline to stream twitter data of U.S. state legislators and local government officials into SQL database on AWS RDS
- Wrangle web behavior data, run regressions, and produce data visualizations for project on the consumption of political extremist content on YouTube with Professor [Brendan Nyhan](#) and collaborators
- Help design an experiment investigating how changes in news feed algorithms influence engagement with untrustworthy content
- Analyze Americans' attitudes toward democracy and confidence in elections before and following the 2020 presidential election with a nationally representative survey panel
- Develop and deploy Shiny dashboard with interactive graphs
- Manage a team of undergraduate students on hand-coding tasks
- Provide administrative support for Bright Line Watch, including maintenance of the organization's website

RESEARCH ASSISTANT, *Apr. 2019 - Aug. 2020*
[DEMOTIP LAB](#), PI: AARON ERLICH
[CENTRE FOR THE STUDY OF DEMOCRATIC CITIZENSHIP](#)

- Programmed conjoint survey experiments in Qualtrics with Javascript. Analyzed results of experiments fielded in Nigeria and Canada
- Ran Facebook advertising campaigns to survey hard-to-reach migrant populations.
- Explored weighting and matching procedures to align demographic profile of sample to census or other nationally representative survey data
- Converted documents into machine-readable PDFs using OCR technology
- Conducted literature reviews and drafted research ethics board applications

CONTENT AND DATA RESEARCH INTERN, *Jan. - Apr. 2018*
[CENTER FOR APPLIED COMMUNITY ENGAGEMENT](#)

- Researched case studies of civic participation utilizing online platforms; managed and published content for open source catalogue's (ParticipateDB) global digital engagement tools
- Processed data from CACE's 2018 Digital Engagement Census and led its social media campaign

Selected Projects & Publications

POLITICAL EXTREMISM ON YOUTUBE

- [Exposure to Alternative and Extremist Content on YouTube](#) (*Feb. 2021*)

BRIGHT LINE WATCH

- [American democracy at the start of the Biden presidency](#) (*Feb. 2021*)
- [A Democratic Stress Test — The 2020 Election and Its Aftermath](#) (*Nov. 2020*)
- [American Democracy on the Eve of the 2020 Election](#) (*Oct. 2020*)

NIGERIANS AT HOME AND ABROAD

- [Discriminatory Immigration Bans Elicit Anti-Americanism in Targeted Communities: Evidence from Nigerian Migrants](#) (*Apr. 2020*)

Technical Skills

PROGRAMMING & SOFTWARE

- R (i.e., tidyverse, Shiny)
- Python (i.e., pandas, selenium, bs4)
- Git and GitHub
- I have basic familiarity with: MySQL, Julia, Stata, Javascript, HTML

GENERAL COMPETENCIES

- data visualization
- econometrics
- survey methods
- experimental design
- webscraping
- APIs
- NLP

Teaching

- Causal inference [\[materials\]](#)
- Math and R (p)refresher workshops
- Intro to quantitative methodology in Political Science

Awards and Distinctions

- SSHRC Canada Graduate Scholarship (2018-2019) - \$17,500
- Centre for the Study of Democratic Citizenship Scholarship (2018) - \$2,500
- Woodsworth College Wilcox Travel Abroad Award (2016) - \$1,800
- International Course Module recipient (2016)
- Dean's List (2013-2017)

Languages

French (Professional working proficiency)
Cantonese (Elementary proficiency)

Education

M.A. POLITICAL SCIENCE
McGill University, GPA: 4.0/4.0
(2018-2020)

B.A. POLITICAL SCIENCE & CRIMINOLOGY
University of Toronto, GPA: 3.8/4.0
(2013-2017)

Relevant Coursework

- Statistical Inference (Topics: Probability, Expectation and Variance, Asymptotic theorems, Properties of estimators, Methods of estimation, Hypothesis testing, Bayesian Inference)
- Introduction to Causal Inference (Topics: Matching, Synthetic control methods, Instrumental variables, Fixed effects, Difference-in-difference, Regression Discontinuity Design, Mediation)
- Quantitative Methods (Topics: Data transformation, Interactions, Simulation, Linear regression (assumptions, diagnostics, fixes), Logit/Probit and Linear Probability Model)
- General mathematics courses: Linear Algebra, Real Analysis

Learning!

- Bayesian statistics via [Bayesian Data Analysis \(Third Edition\)](#)
- Julia via [Julia Programming Projects](#)