Annie Y. Chen

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Data Analyst Experience

Research Fellow, *Aug. 2020 - Aug. 2021*
Bright Line Watch, Dartmouth College

- 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
- 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

Graduate Research Assistant, *Apr. 2019 - Aug. 2020*
DemoTIP Lab, PI: Aaron Erlich

- 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, Asympotic 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