Si Wu 吴斯

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RESEARCH INTERESTS

Comparative politics, authoritarianism, political economy, development, gender, China, methodology

DISSERTATION & DISSERTATION COMMITTEE

"From Control to Choice: Women, Work, and Power in China's New Birth Planning Regime" Rachel Brulé (Chair), Joseph Fewsmith, Taylor Boas

COMPREHENSIVE EXAMS

Comparative Politics, Political Methodology (Passed in September 2022)

EDUCATION

• Boston University, PhD in Political Science, Boston, MA. Expected May 2026 • Northeastern University, MA in Journalism, Boston, MA. Jan. 2018 - May 2020 Sept. 2016 – June 2017

• Durham University, Postgraduate Certificate in Education, Durham, U.K.

• Imperial College London, BSc in Physics, London, U.K. Sept. 2013 - June 2016

PUBLICATIONS

Geometry of Graph Partitions via Optimal Transport (October 2020). SIAM Journal on Scientific Computing. (With Tara Abrishami, Nestor Guillen, Parker Rule, Zachary Schutzman, Justin Solomon, and Thomas Weighill.) ArXiv: 1910.09618.

Key words: political districting plans; partitions; optimal transport; network flows.

Democrats 'went low' on Twitter leading up to 2018 (February 2019). Roll Call. (With Aleszu Bajak).

Key words: Twitter data; sentiment analysis; machine learning; Senate candidates.

FELLOWSHIPS & AWARDS (*denotes funding not included in the standard PhD package)

Boston University Graduate School of Arts & Sciences, Graduate Research Abroad Fellowship (\$6,000)*	2023
Boston University Global Development Policy Center, Summer in the Field Fellowship (\$6,000)*	2023
Boston University Hariri Institute for Computing, Graduate Student Fellowship (\$7,500)*	2020
Boston University, Dean's Fellowship	2020-2021
Northeastern University, Graduate Student Scholarship (\$12,897)	2018-2020

WORK EXPERIENCE

Teaching Fellow, Boston University

Sept. 2021 - Present

• Served as a Teaching Fellow for the following courses: Introduction to Comparative Politics; Introduction to International Relations; Data Science for Politics; Introduction to Public Policy.

Updated September 2023

Racial Policy Tracker, Center for Antiracist Research at Boston University

June 2021 - Aug. 2021

- Analyzed COVID mortality data with modelling techniques.
- Collected data on minority representation in U.S. politics.

Research Assistant, Boston University

July 2020 - Aug. 2020

- Researched for Professors Maxwell Palmer and Dino Christenson.
- Collected Twitter data, scraped the web, and analyzed districting plans and financial donations.

Data Visualization Intern, Harvard Data Science Initiative

Sept. 2019 - Dec. 2019

- Developed data visualizations to effectively communicate data science concepts.
- Helped with conference planning and website design for the Harvard Data Science Review Inaugural Symposium.

Data Science Research Fellow, MIT/Tufts University

June 2019 - Aug. 2019

- Researched for the Metric Geometry and Gerrymandering Group (MGGG Redistricting Lab).
- Coauthored "Geometry of Graph Partitions via Optimal Transport" in SIAM Journal on Scientific Computing.
- Compiled figures with census data and GIS shapefiles by applying math techniques such as Markov Chain Monte Carlo, multi-objective optimization, transport distances and network.
- Developed JavaScript projects for data visualization and outreach.

Researcher, Northeastern's School of Journalism

April 2018 – May 2019

- Collected Twitter and Reddit data with Python and R.
- Applied machine learning techniques on tweets from midterm election candidates to predict positive/negative sentiment.
- Wrote articles on machine learning, data journalism, and augmented reality.

Teaching Assistant, Northeastern University

Sept. 2018 – Nov. 2018

- Taught students how to write leads and nut graphs in news stories.
- Assisted students on Associated Press style of writing and grammar.

CONFERENCE & WORKSHOP PRESENTATIONS

Midwest Political Science Association (MPSA)	April 2023
The Empirical Study of Gender Research Network (EGEN)	Sept. 2022
Harvard-MIT-BU Chinese Politics Research Workshop	April 2022
Northeastern University Visualization Consortium (NUVis)	Dec. 2018

SERVICE

Harvard-MIT-BU Chinese Politics Research Workshop

2022-Present

Coordinator

Hariri Institute for Computing, Boston University

2020 - 2022

• "Did you know you could...?" series co-coordinator and host

MEDIA COVERAGE

Graduate School of Arts & Sciences, Boston University

July 2023

• "Doctoral students return home for summer research"

Updated September 2023

Hariri Institute for Computing, Boston University

April 2021

• "Graduate Student Fellow Hopes to Apply Data Journalism Skills to Study Inequalities"

College of Arts, Media and Design, Northeastern University

Nov. 2019

• "Si Wu, Journalism Graduate Student, Uses Data to Help Others Understand Political Redistricting"

News@Northeastern, Northeastern University

March 2019

• "Democrats who won 2018 midterms were more negative than Republicans on Twitter, research finds"

SKILLS

- Languages: English (fluent), Chinese (native), Korean (beginner).
- Computing Skills: Python, R, GIS, JavaScript, HTML, CSS, and LaTeX.
- Software: GitHub, Final Cut Pro, WordPress, Tableau.