Si Wu 吴斯

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RESEARCH INTERESTS

Comparative politics, authoritarianism, political economy, development, gender, China, mixed-method research design

DISSERTATION & DISSERTATION COMMITTEE

"From Control to Choice: Women, Work, and Power in China's New Birth Planning Regime"
Rachel Brulé, Joseph Fewsmith, Taylor Boas, Susan Greenhalgh (Harvard University), Roselyn Hsueh (Temple University)

COMPREHENSIVE EXAMS

Comparative Politics, Political Methodology (Passed in September 2022)

EDUCATION

- Boston University, PhD in Political Science, Boston, MA.   Sept. 2020 – May 2026
- Northeastern University, MA in Journalism, Boston, MA.   Jan. 2018 – May 2020
- Durham University, Postgraduate Certificate in Education, Durham, U.K.   Sept. 2016 – June 2017
- Imperial College London, BSc in Physics, London, U.K.   Sept. 2013 – June 2016

PUBLICATIONS

[Summer in the Field: Women, Work and Politics in China's New Era of Family Planning](#) (October 2023). *BU Global Development Policy Center.*
- Key words: political economy; gender inequality; family planning; one-child policy.

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, The Frederick S. Pardee Center for the Study of the Longer-Range Future, Graduate Summer Fellowship ($6,500)*   2024
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

WORKING PAPERS

"State-Driven Divergence: China's Universal Two-Child Policy and Gender Dynamics in State-owned and Private Enterprises"
"Understanding the All-China Women's Federation in China's New Birth Planning Era"
"Examining the Political Geography of the Gender Gap: The Case of Guangzhou, China"

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.

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

American Political Science Association (APSA), Philadelphia, PA   Sept. 2024
Harvard-MIT-BU Chinese Politics Research Workshop, Center for Government and International Studies, Harvard University, Cambridge, MA   April 2022; Oct. 2023
Midwest Political Science Association (MPSA), Chicago, IL   April 2023

The Empirical Study of Gender Research Network (EGEN), Harvard Kennedy School, Cambridge, MA   Sept. 2022
Northeastern University Visualization Consortium (NUVis), Boston, MA   Dec. 2018

SERVICE

Harvard-MIT-BU Chinese Politics Research Workshop   2022 – Present
- BU 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"

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"

INVITED TALKS

Hariri Institute for Computing, Graduate Student Alumni and Networking Event   Sept. 2023

FIELD RESEARCH

Shenzhen, Zhuhai, Guangzhou, Zhaoqing, Yunfu, Meizhou, Chaozhou in Guangdong, China; Beijing, China   2023-2024

SKILLS

- Languages: English (fluent), Chinese (native), Korean (beginner).
- Computing Skills: Python, R, GIS, JavaScript, HTML, CSS, and LaTeX.