Myriam **Shiran**

PH.D. CANDIDATE · GRADUATE RESEARCH ASSISTANT

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Education

University of Houston   *Houston, United States*

PH.D CANDIDATE IN POLITICAL SCIENCE   *Jan 2018 – Present*

- Dissertation - Investigating Backlash Against Women Politicians: Conservative Moral Rhetoric in News as Mechanism of Backlash

Tehran University   *Tehran, Iran*

M.A IN SOCIOCULTURAL ANTHROPOLOGY   *Sep 2008 – Jul 2012*

- Dissertation - Schism and Reintegration in Turkic Folktales: A Discourse Analysis of Conflict Resolution Mechanisms

Skills

Programming	R, Python
Tools	Google Earth Engine, Jupyter Notebook, LaTeX, Github
Platforms	High Performance Computing (HPC)
Research Methods	Text Analysis; Machine Learning; Survey Experiment Design; Survival Analysis; Multilevel Modeling
Languages	Fluent in English and Farsi; Limited Proficiency in Azerbaijani & Turkish

Selected Research Experience

University of Houston   *Houston, United States*

PH.D. CANDIDATE   *May 2021–Present*

- **Dissertation:** Exploring conservative backlash against women politicians following the implementation of gender quotas in Sub-Saharan Africa:
  - Used text analysis and multilevel models to analyze moral rhetoric in news reports of women politicians between 2000 and 2021, utilizing a cross-national and longitudinal design.
  - Analyzed five waves of Afrobarometer surveys to investigate the impact of conservative moral rhetoric in news coverage of women politicians on public support for women's political participation.
  - Utilizing vignette experiments, to be fielded in South Africa, to examine the impact of conservative moral language on gender role attitudes and beliefs about women politicians' leadership capability.

GRADUATE RESEARCH ASSISTANT   *Jan 2018–Present*

- Exploring public's responses to the Texas power outage/utilities crisis, as part of an NSF-funded project in collaboration with scholars from the University of Colorado Boulder.
- Investigating the expectations of the future US energy workforce, with a focus on the importance of ESG and climate change policies of companies. **Contributions**:
  - Designed different types of experiments, including conjoint, crosswise and list experiments
- Studying public's assessments of algorithms used in criminal justice and the extent to which they trust and distribute blame for decision-making across humans and algorithms.

Initiative for Sustainable Energy Policy (ISEP)   *Johns Hopkins University*

STUDENT FELLOW   *Jan 2019–Present*

- Studying the strategic use of media in China's war on air pollution, in collaboration with scholars from Johns Hopkins SAIS and Korea University. **Contribution**:
  - Utilized unsupervised topic modeling on the University of Houston's high-performance computing (HPC) cluster to analyze the content of news coverage on air pollution by the Chinese newspapers (N 170K)
- Explored the feasibility of using Google Earth data for assessing the potential of using satellite data to identify areas with unreliable electricity access, in collaboration with scholars from the London School of Economics and Johns Hopkins SAIS. **Contribution**:
  - Collected and analyzed data on nighttime lights and rainfall in India using Google Earth Engine.
- Studying the environmental justice implications of air pollution in India using data from a Community Multi-scale Air Quality Model (CMAQ) and the Indian Census 2011.

Publications

PEER REVIEWED ARTICLES

- Eugenie Dugoua, Ryan Kennedy, **Myriam Shiran** and Johannes Urpelainen; "Assessing Reliability of Electricity Grid Services from Space: The Case of Uttar Pradesh, India", Journal of Energy for Sustainable Development, DOI: https://doi.org/10.1016/j.esd.2022.04.004
- Waggoner, Philip D., Ryan Kennedy, Hayden Le, and **Myriam Shiran**; "Big Data and Trust in Public Policy Automation", Statistics, Politics and Policy, 2019, DOI: https://doi.org/10.1515/spp-2019-0005.

BOOK CHAPTER

- **Myriam Shiran** and Patrick Shea; "Survival Analysis in International Relations", in J Huddleston, T. Jamieson & P. James, *Handbook of Research Methods in International Relations* Edward Elgar Publishing Inc: Glos, UK, ISBN: 978 1 83910 100 7

MANUSCRIPTS UNDER REVIEW

- Sung Eun Kim, **Myriam Shiran**, Ryan Kennedy, Ziyu Wang and Johannes Urpelainen, "Hide and Brag: The Strategic Use of Media in China's War on Air Pollution", Currently under review in Environmental Politics journal
- June Lukuyu, **Myriam Shiran**, Ryan Kennedy, Johannes Urpelainen, Jay Taneja, "Purchasing Power: Comparing Customer Profiles and Patterns for Decentralized Electricity Systems in East Africa", Currently under review in Energy Policy journal, Available at SSRN: https://ssrn.com/abstract=4093992

Presentations

APSA Annual Meeting

PRESENTER   *September 2021*

- The Strange Case of Gender Quotas' Symbolic Effect: Moral Values Vary in Media Frames of Women Politicians

ISA Midwest

PRESENTER   *November 2020*

- The Impact of Gender Quotas on Moral Framing of Women Politicians in Post-Conflict Societies: The Case of Kenya

Awards & Certificates

AWARDS

2022	Dissertation Completion Fellowship (DCF) for 2022-23 from the UH College of Liberal Arts and Social Sciences (CLASS)	*Houston*
2020	Scholarship for ICPSR Summer Program in Quantitative Methods	*Virtual*
2020	Outstanding Graduate Teaching Assistant Award for Academic Year 2019-2020 from the UH Political Science Department	*Houston*
2019	Booz Allen Hamilton Sponsorship for Women's Early Career Accelerator - Fundamentals of Deep Learning for Computer Vision Workshop	*Washington D.C.*
2019	Scholarship for Empirical Implications of Theoretical Models (EITM) Workshop	*Houston*

CERTIFICATES

2020	Empirical Modeling of Social Science, Theory: Advanced	*ICPSR*
2020	Machine Learning: Applications and Opportunities in Social Science Research	*ICPSR*
2019	Fundamentals of Deep Learning for Computer Vision	*NVIDIA*

Memberships & Academic Services

MEMBERSHIPS

POLITICAL SCIENCE GRADUATE STUDENT ASSOCIATION (PSGSA)   *University of Houston*

- 2022 – 2023 - President
- 2021 – 2022 - Student Liaison & President Elect
- 2020 – 2021 - Treasurer

THE INITIATIVE FOR SUSTAINABLE ENERGY POLICY (ISEP)   *Johns Hopkins University*

- 2019 – Present - Student Fellow

COLLEGE OF LIBERAL ARTS & SOCIAL SCIENCES (CLASS)   *University of Houston*

- 2021 – 2022 - Student Representative

GRADUATE AND PROFESSIONAL STUDENT ASSOCIATION (GPSA)   *University of Houston*

- 2021 – 2022 - College Representative

ACADEMIC SERVICES

JOURNAL OF RESEARCH & POLITICS

- 2021 – Present - Journal Reviewer