

Musashi Jacobs-Harukawa

Postdoctoral Researcher in Computational Social Science at Princeton University

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Positions Held

- 2022-pres. **Princeton University** | Postdoctoral Research Associate
Data-Driven Social Science Initiative, Princeton University
- 2021-2022 **University College London** | Pre-Doctoral Researcher
Project: *MENMOPE*: Mental Models of the Political Economy | P.I. *Prof. Lucy Barnes*

Education

- 2019-2022 **University of Oxford** | DPhil in Politics
Supervisors: *Prof. Andrew Eggers, Prof. Raymond Duch*
Thesis: *New Empirical Methodologies for Studying Modern Political Campaigning*
- 2018-2019 **University of Oxford** | MSc in Politics Research
Supervisor: *Prof. Andrew Eggers*
- 2012-2015 **University of Oxford** | BA in Philosophy, Politics and Economics

Research

Under Review

- “Does Microtargeting Work? Evidence from an Experiment during the 2020 US Presidential Election”. *Links to [Summary](#), [Paper](#), [Appendices](#).*

Working Papers

- “Linking Economic Ideas and Narratives Across Corpora”.
Co-authored with Dr. Lucy Barnes (UCL), presented at EPSA '22.
- “Learning from Machines: Identifying Differences between US Campaigns on Facebook”.
Thesis chapter, presented at PaCSS '22.
- “Text-and-Image-as-Data? Multimodal Embeddings for Political Advertisements.”
Link to [Poster Summary](#) as presented at TADA '21.
- “An Unsupervised Text-as-Data Approach to Detecting the Effects of Electoral Constraints on Online Communication Strategies in New Zealand”. *Master's Thesis.*

Research Assistance

- 2020 To **Prof. Radoslaw Zubek**, University of Oxford
Authored literature review of manual and automatic topic discovery methods.
- 2019 To **Dr. Raluca Pahontu**, University of Oxford
Developed fuzzy string matching algorithm for merging voter records with typos.

Teaching

- 2020-2022 **Introduction to Python for Social Science**, Course Designer and Instructor
Department of Politics and International Relations, University of Oxford
Slides and materials available at: muhark.github.io/dpir-intro-python
- 2021 **Data Analytics at Scale**, Teaching Assistant
Oxford Internet Institute, University of Oxford
- 2021 **Comparative Government**, Seminar Convenor
Department of Politics and International Relations, University of Oxford
- 2019 **Introduction to Statistics**, Teaching Assistant
Oxford Internet Institute, University of Oxford

Professional Experience

- 2019-2020 **Political Campaigning Consultancy**, London, UK
In-house data science consultant.
- 2017-2018 **SBI Group**, Tokyo, Japan
Lead researcher at Equities and Derivatives Exchange SBI Japannext.
- 2016-2017 **IEC Nichibei**, Tokyo, Japan
- 2015-2016 **Language Link**, Moscow, Russia

Scholarships, Grants and Awards

- 2022 Norman Chester Grant University of Oxford
- 2021 Travel and Conference Grant Text-as-Data Conference
- 2020 Merton College Graduate Research Fund Merton College, Oxford
- 2019 DPIR Studentship (Full PhD Tuition and Stipend) University of Oxford
- 2019 Graduate Research Fund St Catherine's College, Oxford
- 2013 Exhibitionership Merton College, Oxford

Professional Activities

Presentations, Conferences and Colloquia

- 2022 *EPSA*: "Measurement: Polarization and Political Communication" Panel
- 2022 *PaCSS*: "Political Advertising" Panel
- 2022 *COMPTEXT*: "Narratives and Multilingual Analysis" Panel
- 2022 *MPSA*: "Campaign Messaging" Panel
- 2021 *CESS* Colloquium, Nuffield College, Oxford
- 2021 *Digital Democracy Lab* Workshop, U. Zurich
- 2021 *Text-as-Data* Conference
- 2021 *Elections, Public Opinion and Parties* Conference

Service to the Community

- 2022 *Japanese Journal of Political Science* Reviewer
- 2022 *Politics Research in Progress Colloquium*, DPIR Co-Convenor
- 2020 *Research & Politics* Journal Reviewer

Technical Skills

- Coding Languages** Python[†], R[†], shell^{**}, Julia, SQL^{**}, php
- Key Libraries** PyTorch^{*}, Scipy Stack[†], tidyverse^{*}
- Fields** Text-as-Data[†], Machine Learning^{**}, Econometrics^{**}, Deep Learning^{*}
- Roles** Data Science Lead[†], Data Engineer^{**}, System Admin, Web Dev
- Development Tools** Git(hub)^{**}, Docker, Nginx, MariaDB, PostgreSQL^{**}, Amazon AWS
- Composition** Markdown[†], Microsoft/Google/Libre Office[†], \LaTeX , html, css

(*, ** and † indicate 1000, 2000 and 3000+ hours experience respectively)

Other

Selected Blog Posts

- [On Emotion and Reason in Political Language \(Gennaro and Ash 2021\)](#)
- [Implementing Word2Vec in PyTorch](#)
- [Making Your Life Easier with Docker](#)
- [First Steps to Optimizing Python Code](#)
- [Beginner Guide to Using Twitter's Academic Track API](#)

(Natural) Languages

- English: Native
- Japanese: Advanced Spoken, Intermediate Reading/Writing
- Spanish: CEFR C1 (Advanced Proficiency)
- Russian: CEFR A2 (Basic)