

Musashi Jacobs-Harukawa

Postdoctoral Researcher in Computational Social Science at Princeton University

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Positions Held

- 2021-2021 **Princeton University** | Postdoctoral Research Associate
Data-Driven Social Science Initiative, Princeton University
- 2021-2021 **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

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|------|---|--------------------------------|
| 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

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| 2022 | <i>Japanese Journal of Political Science</i> | Reviewer |
| 2022 | <i>Politics Research in Progress Colloquium</i> , DPIR | Co-Convenor |
| 2020 | <i>Research & Politics</i> Journal | Reviewer |

Technical Skills

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| 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)