

Musashi Jacobs-Harukawa | CV

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Employment

Research and Academia

Research Assistant

Department of Politics and International Relations, University of Oxford
Provided literature summary of manual and automatic text classification methods.

Oxford, UK
Feb 2020 to Mar 2020

Research Assistant

Nuffield College, University of Oxford
Developed fuzzy string matching algorithm for merging public records containing typos.

Oxford, UK
May 2019 to Jun 2019

Data Science

Data Scientist

Political Campaigning Consultancy
In-house data scientist providing analytics and data visuals.

London, UK
Dec 2019, ongoing

Quant Developer/Data Scientist

SBI Group, BITS, Japannext and Alpha
Lead researcher at Equities and Derivatives Exchange at SBI Japannext.

Tokyo, Japan
Apr 2017 to Sep 2018

Teaching

Introduction to Python for Social Science

Course Designer and Instructor
Slides and materials available at: muhark.github.io/dpir-intro-python

Oxford, UK
Jan 2020, ongoing

Introduction to Statistics

Graduate Teaching Assistant, Oxford Internet Institute

Oxford, UK
Oct 2019 to Dec 2019

EFL Teacher

IEC Nichibei

Tokyo, Japan
Mar 2016 to Mar 2017

Teacher Intern

Language Link

Moscow, Russia
Aug 2015 to Jan 2016

Grants and Awards

Graduate Research Grant

Merton College, University of Oxford
Research grant of £1,500 secured to conduct survey experiment in the United States.

Oct 2020

DPIR Studentship

Department of Politics and International Relations
Fully-funded studentship covering tuition and stipend for duration of three years of doctoral studies.

Oct 2019, ongoing

Exhibitionership

Merton College, University of Oxford
Academic and financial award for high achievement in Preliminary Examinations.

Oct 2013

Education

DPhil in Politics

University of Oxford, Supervisor: Prof. Andrew Eggers

2019, ongoing

Thesis on micro-targeted political advertising and measurement strategies for high-dimensional data.

MSc Politics Research

University of Oxford, Supervisor: Prof. Andrew Eggers

2018-2019

BA (Hons) Philosophy Politics & Economics

Merton College, University of Oxford

2012-2015

Focus on Quantitative Political Science, Microeconomic Theory, and Game Theory.

Technical Skills

Programming

(Items limited to those with production-grade implementation experience.)

- Languages: Python, R, bash, SQL, php.
- Roles: Data Science Lead, Full Stack Developer, Data Infrastructure Admin
- Skills: CI with GitHub, Systems Programming with Linux, Cloud Server Development and Deployment (AWS), Web Development on Nginx/MariaDB.

Statistics

- Econometric Modelling: GLM for Cross-Sectional, Time-Series and Panel Data
- Causal Inference: Survey Experiments, RDD, DiD, IV
- Other Specializations: Information Theory and Bayesian Statistics

Machine Learning

- Clustering: k-means, Hierarchical, Spectral and Clustering Metrics
- Tree-based Methods: Random Forest, Boosted Trees, BART
- Decomposition: PCA, t-SNE, UMAP
- Model Diagnostics: Hyperparameter Tuning, Fit Statistics, Algorithm Optimization.

Natural Language Processing

- Text Preparation: Syntactic Parsing, Tokenization
- Topic Models: LDA, Bayesian Hierarchical, STM, TopSBM
- Word Embeddings: word2vec, doc2vec, GloVE, BERT

Composition

- Visual: Advanced Data Visualization (static and interactive), Web Development
- Text: Markdown, Microsoft Office, L^AT_EX, reveal.js, html, css.

Languages

- Native (C2): English
- Proficient (B2-C1): Japanese and Spanish

Research

“Estimating the Micro-Targeting Effect: Evidence from a Survey Experiment during the 2020 U.S. Presidential Election”. *WIP*.

“An Unsupervised Text-as-Data Approach to Detecting the Effects of Electoral Constraints on Online Communication Strategies in New Zealand”. *Master’s Thesis*.