Musashi Harukawa

Curriculum Vitae

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DPhil in Politics at University of Oxford/Data Scientist in Finance and Political Campaigning

Employment

Feb 2020 Mar 2020	**Research Assistant**, *DPIR*, University of Oxford. *Provided literature summary of manual and automatic text classification methods.*
Dec 2019 Feb 2020	**Data Scientist**, *Political Campaigning Consultancy*, London, United Kingdom. *In-house Data Scientist for Political Campaigning Consultancy*
Oct 2019 Jun 2020	**Graduate Teaching Assistant**, *University of Oxford*. *Quantitative Methods Teaching Position* - Designed, wrote and instructed *Introduction to Python* course at Department of Politics and International Relations. Materials available at `muhark.github.io/dpir-intro-python` - Teaching Assistant for *Introduction to Statistics* at *Oxford Internet Institute*.
Jun 2019 May 2019	**Research Assistant**, *Nuffield College*, Oxford, U.K.. *Quantitative Research Assistant developing Fuzzy String Matching Algorithm for Voter Data*
Sep 2018 Apr 2017	**Data Scientist**, *SBI Group*, Tokyo, Japan. *Lead researcher at Equities and Derivatives Exchange at SBI Japannext.*
Mar 2017 Mar 2016	**English Teacher**, *IEC Nichibei*, Tokyo, Japan. *Instructor and course designer at one of Japan's oldest English schools.*
Jan 2016 Aug 2015	**Teacher Intern**, *Language Link*, Moscow, Russia. *One-month ELT training course and five months of teaching.*

Education

2019-2022	**University of Oxford**, *DPhil in Politics*. Research focus on feature selection and measurement strategies for high-dimensional data, and micro-targeted advertising in political campaigns.
2018-2019	**University of Oxford**, *MSc Politics Research*. Thesis: *An Unsupervised Text-As-Data Approach to Detecting the Effects of Electoral Constraints on Online Communication Strategies in New Zealand*
2012-2015	**University of Oxford**, *BA (Hons) Philosophy Politics & Economics*, *2.i.*. Focus on Quantitative Political Science, Microeconomic Theory, and Game Theory.

Technical and Personal Skills

Languages: Native English, Proficient Japanese and Spanish, Elementary Russian. Simultaneous interpretation (Jp-En).

Programming:
- *Languages*: Python, R, SQL, bash.
- *Skills:* Git/GitHub, Collaborative Development, Data Pipelining, postgreSQL Database Deployment and Management, Unix Environment.

Statistics: GLM for Cross-Sectional and Panel, Causal Designs (RDD, DiD, IV), Information Theory, Bayesian Statistics

Machine Learning: Clustering (k-means, hierarchical, spectral), Tree-based Methods (RF, XG-BOOST, BART), Decomposition (PCA, NNMF, t-SNE, UMAP), Parameter Tuning and Model Diagnostics (CV, GoF, etc.)

Natural Language Processing: Syntactic Parsing, Tokenisation, Topic Models (LDA, Bayesian Hierarchical, STM, TopSBM), word embeddings (*word2vec*, *doc2vec*, *GloVE*, *BERT*)

Composition: Advanced Data Visualization (static and interactive), Markdown (Pandoc), MS Office, Google Suite, Jupyter Notebooks, LaTeX, reveal.js

Business: Excellent presentation skills, comfortable in a position of leadership, work well with others. Experience maintaining corporate social media profile with Twitter and Google Analytics.