Yennie Jun

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EDUCATION

University of Oxford — Oxford, United Kingdom
MSc (Distinction), Oxford Internet Institute — *Oct. 2020 — Aug. 2021*

Tufts University — Medford, MA, USA
BS in Computer Science and History, Minor in Music — *Sep. 2013 — May 2017*

WORK EXPERIENCE

United Nations — Global Pulse — Remote
AI and Data Science Research Fellow — *Apr. 2021 — Present*
- Conduct NLP analyses on 4000+ hours of public radio transcriptions (English and French) from various African countries to surface relevant discourses regarding vaccines side effects, rumors, and mis-/disinformation
- Build dashboard of radio transcription analyses for public health officials monitoring the COVID-19 infodemic

DeepLearning.AI — Remote
Course Developer, AI for Social Good — *Aug. 2021 — Present*
- Design curriculum exploring the applications of AI for social good; to be offered online on Coursera
- Create Jupyter notebooks for wrangling and modeling data (image, text, time series) applied to social good scenarios.

Seoul National University — Seoul, South Korea
Research Data Scientist, Big Data Studies Lab — *Nov. 2019 — Jun. 2021*
- Gathered, cleaned, and modeled COVID-19 news data across 6 countries, 3 languages
- Performed named-entity recognition, resolution, and disambiguation of 14K historical Korean civil-service figures
- Prototyped language translation model between Korean and traditional Chinese characters (Hanja)

Microsoft — Redmond, WA, USA
Full-stack Software Engineer, Education Team — *Sep. 2017 — Sep. 2019*
- Built front-end tagging and categorizing system for Assignments (a Learning Management System)
- Developed app integration with the Microsoft Teams admin center for allowing educators to control features
- Designed API endpoints to allow external partners access to Microsoft Graph APIs

PAPERS & PUBLICATIONS

Jun, Y. (2021). Tuning In: COVID-19 Vaccine Discourse on Public Radio in South Africa and Nigeria [Unpublished master's dissertation]. Oxford Internet Institute, Oxford, UK.

Kirk, H. R., **Jun, Y.**, et al (2021). Bias Out-of-the-Box: An Empirical Analysis of Intersectional Occupational Biases in Popular Generative Language Models. *NeurIPS*. arXiv:2102.04130.

Kirk, H. R., **Jun, Y.**, et al. (2021). Memes in the Wild: Assessing the Generalizability of the Hateful Memes Challenge Dataset. *Proceedings of the 5th Workshop on Online Abuse and Harms (WOAH 2021)*, 26–35. doi:10.18653/V1/2021.WOAH-1.4.

PROJECTS

Classification of Political Figures by Gender and Party. Classified political blog posts by the gender and political affiliation of the politician mentioned in the post. Utilized both classical NLP techniques (Naive Bayes, SVM) as well as more modern methods (fine-tuning pretrained BERT model).

Semantic Network Analysis for COVID-19 Contact Tracing. Analyzed the privacy implications of digital contact tracing in East Asian countries through topic modeling and semantic network analysis of news media.

Chatbot for COVID-19 Info. Created texting service for answering questions related to the pandemic and providing COVID-19 statistics to those without access to Internet. Project with Silicon Harlem, NYC.

TECHNICAL SKILLS

Languages: Python, JavaScript, React.js, Node.js/Express.js, SQL, C/C++/C#, HTML/CSS
Libraries: nltk, spaCy, Gensim, keras/tensorflow, pytorch, matplotlib, seaborn, networkx, numpy, pandas
Technologies: conda, Dash/Plotly, Flask, Git, npm, Postman, Twilio, VS Code