

Yennie Jun

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EDUCATION

Oxford Internet Institute, University of Oxford

Master of Science in Social Data Science

Oxford, United Kingdom

Expected Aug. 2021

Tufts University

Bachelor of Science in Computer Science and History, Minor in Music

Medford, MA, USA

Sep. 2013 – May 2017

WORK EXPERIENCE

AI and Data Science Research Fellow

UN Global Pulse, New York Lab

Remote

Apr. 2021 – Present

- Trace discourse shifts in African radio transcriptions using temporal word embeddings and semantic networks
- Operationalize textual analytics tools to aid public health officials monitor the COVID-19 infodemic

Project Co-Lead

Oxford Artificial Intelligence Society

Oxford, United Kingdom

Oct. 2020 – Present

- Lead student-driven projects researching biases in NLP systems and multimodal detection of hateful memes

Big Data Researcher

Big Data Studies Lab, Seoul National University

Seoul, South Korea

Nov. 2019 – Present

- Gathered, cleaned, modeled, and analyzed COVID-19 news data across 6 countries, 3 languages
- Performed named-entity recognition, resolution, and disambiguation on historical Korean civil-service figures

Software Engineer

Microsoft (Education team)

Redmond, WA, USA

Sep. 2017 – Sep. 2019

- Full-stack development for Assignments Service (a Learning Management System within Microsoft Teams)
- Led integration with Immersive Reader, a tool for empowering learners to improve reading and writing skills
- Maintained service health by monitoring telemetry dashboards and investigating high-severity alerts

Teaching Assistant

Tufts University

Medford, MA, USA

Aug. 2014 – Dec. 2016

- Led weekly labs on computer science concepts and skills for introductory data structures course
- Planned future projects and assignments with other lab leaders and participated in writing weekly labs

CURRENT PROJECTS & WORKING PAPERS

How True is GPT-2: An Empirical Analysis of Intersectional Occupational Biases. We prompt engineer GPT-2 with 7000 prefix templates and evaluate the biases in its predictions by comparing to ground-truth US labor data. ([ArXiv preprint](#))

Learning From The Hateful Memes Challenge: Assessing the Generalizability of the Hateful Memes Challenge Dataset. We evaluate Facebook's Hateful Memes Challenge using unimodal and multimodal models, and assesses the deployment gap between synthetic memes and memes in the wild.

Data Surveillance and Biocitizenship in the COVID-19 Pandemic: Digital Contact-tracing in South Korea, Hong Kong, Singapore, and Taiwan. We analyze the privacy implications of digital contact tracing in East Asian countries during the COVID-19 pandemic through news media.

COVID-19 Texting Service. Texting service providing COVID-19 statistics and common queries for those without broadband access. Working project with Silicon Harlem, NYC.

TECHNICAL SKILLS

Languages: Python, JavaScript, React.js, Node.js/Express.js, SQL, C/C++/C#, HTML/CSS

Libraries: matplotlib, networkx, nltk, numpy, pandas, pytorch, seaborn, scikit-learn

Technologies: conda, Dash/Plotly, Flask, Git, npm, Postman, Twilio, VS Code

ACTIVITIES & LEADERSHIP

Oxford Artificial Intelligence Labs, Researcher (2020-present)

University of Washington Taekwondo Team, Assistant Instructor (2017-2019)

Puget Sound Symphony Orchestra in Seattle, Flutist (2017-2019)