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Zanele Munyikwa

education

Ph.D, Management Information Technologies, MIT Sloan School of Management, Expected 2022
Kenan Sahin (1963) Presidential Fellow

M.A., Management Research, MIT Sloan School of Management, 2020

Research Fellow (Two-Year Predoctoral Fellowship), Stanford Graduate School of Business, 2015-2017

B.S., Computer Science, Minor in Global Health, Duke University, 2015
Thesis: Compositional Approaches for Document Level Sentiment Analysis

affiliations

Researcher, MIT Initiative on the Digital Economy
Graduate Research Affiliate, Stanford Digital Economy Lab

research areas

Economics of Information Systems and Digitization, Labor Economics, Computational Social Science, Ethics and Governance of AI and Data-Driven Decision Making

selected coursework

Economics: Microeconomic Theory I & II, Labor Economics, Economics of Information & Technology

Computer Science: Design and Analysis of Algorithms, Cognitive Systems and Intelligent Technologies, Data Visualization, Software Design and Implementation, Web Application Design

Mathematics & Statistics: Machine Learning, Econometrics, Probability and Statistical Inference, Linear Algebra, Differential Equations

Ethics and Governance of Artificial Intelligence, Ethics and Fairness in Data-driven Decision making

Summary of Interest

Broadly I am interested in how technology impacts the structure of work, including tasks, skills and occupations. I'm currently doing three projects related specifically to how artificial intelligence impacts the future of work.

1. An investigation of the potential for universal models, which GPT-3 is a precursor to, is a paradigm shift in how through an analysis of O*NET combined with a series of Turing Test-like HCI experiments.

2. How does the market view AI as a 'worker' on the team? How does this impact the market value of a firm? How do we weight these different contributions?

3. The basis of the field of collective intelligence is that groups of individuals with diverse experiences and skills are better suited to solving many challenging tasks. In a digital economy that is defined by human and machine partnerships, often in a distributed fashion, this requires an extension of the existing collective intelligence research, in combination with labor economics, to conceptualize this. I'm working on a project that considers this in the context of healthcare.