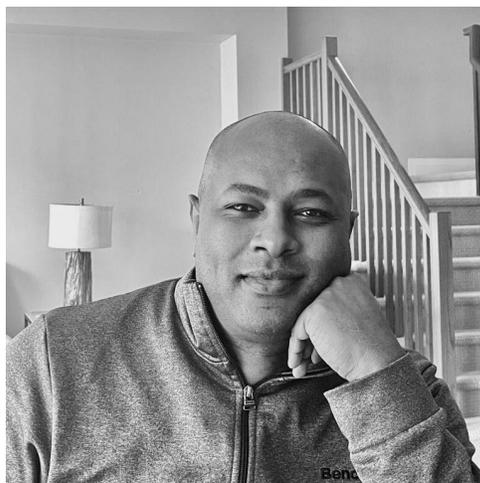# *Upcoming Candidate Seminar*

Komminist "Kommy" Weldemariam, Ph.D.

Candidate for : AI Food Chain Resilience Engineer

Monday

January 31, 2022

10:30am

Location:
Frazier Rogers Hall, R-122

Other Information:
Zoom link -
https://tinyurl.com/2p96f86h

Meeting ID: 937 5937 6642

Password: 816819

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AGRICULTURAL AND BIOLOGICAL ENGINEERING

Feed the Billions: At Scale Intelligence for Sustainable Agribusiness

In this talk, I will discuss my experience spanning broad concept-to-research-to-market acquired through numerous advanced research projects across technologies such as complex systems, big data, and (use-inspired) AI accelerators. I will use a few examples to demonstrate the novel use of these technologies to address some of the most difficult problems in agriculture, supply chains, healthcare, climate change, etc. Moreover, I will outline my vision and potential multidisciplinary research and teaching directions at the intersection of geospatial-temporal data, AI, and hybrid methods (e.g., Physics-Inspired AI) for food chain systems and beyond.

About Dr. Kommy Weldemariam

Kommy is a Senior Research Staff Member and Master Inventor at IBM Research. He has more than 15 years of experience in information technology. His expertise spans broad concept-to-research-to-market experience acquired through numerous advanced technology research projects across systems, data and analytics ecosystems, artificial intelligence, supply chains, healthcare, climate change, and related areas. Thanks to his interdisciplinary background, he has a successful record of accomplishments in both industry and academia. To give a few examples, Kommy led the creation of IBM's Environmental Intelligence Suite with differentiated AI-enabled climate and carbon acceleration technologies. Kommy led the design and deployment of the Global Trade Digitization (aka TradeLens) which was among the first enterprise blockchain platforms to run in production with real trade data and workflows. Today, TradeLens is shaping the future of global trade and its ecosystem now includes 300+ organizations. Finally, Kommy led the invention and development of the Cognitive Learning Companion (CLC), a suite of cognitive capabilities supporting and seamlessly connecting multiple modes of learning, enabled on the mobile, and delivered through the cloud.

Kommy holds more than 250 patents and applications (in the fields of software systems, BigData, AI, Blockchains, IoT, and Security). He has received numerous awards such as an elected member of the Young Scientist World Economic Forum(2015), a Fellow of the Next Einstein Forum (2016)}, won the Kifra Prize Award (2020), and twice IBM Master Inventor (2017 - present).