NBER Digital Economics and AI Tutorial Application

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I am a third-year Ph.D. student in Economics at Boston University. Before beginning my doctoral studies, I completed advanced coursework in Machine Learning, Network Theory, and Deep Learning and NLP for Social Science, which exposed me early to how data and computational methods can enrich economic research. My interests lie at the intersection of technology, labor markets, and human capital—specifically in how new technologies such as Generative AI influence the way workers learn, how firms design their internal organization, and how knowledge and skills evolve through peer interactions.

At Boston University, I have completed the full Ph.D. sequences in Labor Economics, Macroeconomics, and Industrial Organization. Together, these courses have given me a broad understanding of both micro- and macro-level mechanisms that shape modern economies, as well as a diverse analytical toolkit for studying workers' and firms' behavior, market competition, and their outcomes. This training has allowed me to approach the economics of AI from multiple perspectives, linking firm-level incentives and technological adoption to aggregate patterns of human capital accumulation and productivity growth.

During my master's studies at the Hebrew University of Jerusalem, I worked closely with Prof. Victor Lavy and developed a lasting interest in human capital formation and skill development. That early exposure continues to shape my current research focus on how workers acquire skills through on-the-job learning and how these processes evolve with the adoption of Generative AI. I am particularly interested in the two-way relationship between AI and workplace learning. How AI tools reshape collaboration and task allocation within teams, and how workers' evolving skill sets and adaptive learning, in turn, influence the productivity and organization of firms. My ongoing project develops and empirically estimates a model of human capital accumulation in which workers learn through exposure to coworkers and firm-

specific environments. Conceptually, my broader goal is to understand how AI alters the mechanisms through which skills are developed, transmitted, and recognized, and how these changes affect the incentives of both workers and firms in structuring teams, tasks, and transitions.

I would be excited to attend the NBER Digital Economics and AI Tutorial because it offers a rare opportunity to learn directly from established researchers and fellow motivated students who are shaping this emerging field. I hope to gain a deeper understanding of how to conceptualize and estimate the economic impact of AI and to connect these insights to my own research on skill formation and firm organization. I am also eager to participate in the accompanying NBER Digital Economics and AI meetings to engage with the latest frontier research and exchange ideas with others studying the transformation of work and production in the age of AI. My goal is to refine my current projects and develop them into publishable papers in top-tier journals, contributing to our understanding of how Generative AI reshapes the way people and firms learn, work, and manage in the digital economy.