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INDIANA UNIVERSITY BLOOMINGTON

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Office Contact Information:

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Undergraduate and Masters Education:

B.A. in National Economic Management, Renmin University of China, Beijing, China, 2016
M.A. in Behavioral Economics, University of Montpellier, Montpellier, France, 2017

Doctoral Studies:

Indiana University Bloomington, 2017 to present
Ph.D. Candidate in Economics
Thesis Title: “Essays on Human Capital and Technology”
Expected Completion Date: June 2023

References:

Bulent Guler (Co-chair) Department of Economics, IUB bguler@iu.edu, 812-855-7791	Todd B. Walker (Co-chair) Department of Economics, IUB walkertb@iu.edu, 812-856-2892
Rupal Kamdar Department of Economics, IUB rkamdar@iu.edu, 812-855-4203	Laura Liu Department of Economics, IUB lauraliu@iu.edu, 812-856-1238

Teaching and Research Fields:

Primary Fields: Economic Growth, Labor Economics
Secondary Fields: Macroeconomics, Monetary Policy

Teaching Experience:

Fall 2022	Undergraduate Intro to Macroeconomics Head teaching assistant for Prof. James Self
Fall 2021	Undergraduate Fund of Economics for Business II Associate instructor
Spring 2020, 2021, 2022	Graduate Macroeconomic Theory Associate instructor for Prof. Bulent Guler
Fall 2018, 2019, 2020, Spring 2019	Undergraduate Intro to Macroeconomics Associate instructor
Spring 2018	Undergraduate Intro to Microeconomics Graduate assistant for Prof. Gerhard Glomm
Fall 2017	Undergraduate Intro to Microeconomics Graduate assistant for Prof. Paul Graf

Research Experience:

Summer 2021	Indiana University, Bloomington, Research Assistant for Prof. Todd Walker
Summer 2017	Organisation for Economic Cooperation and Development, Research Intern

Professional Activities:

Presentations: EEA (2022), SEA (2022)

Honors, Scholarships, and Fellowships:

2020-2021	Fred & Judy Witney Scholarship
2020-2021	Witney LeMar Fellowship
2021-2022	Taulman A. Miller Award
Fall 2022	College of Arts and Sciences Travel Award

Research Papers in Progress:

“Interaction between Automation and Human Capital: Labor Share and Inequality”
(Job Market Paper)

Abstract: This paper studies the human capital adaptations to technological revolution since human capital is essential for understanding the changes in labor share, wage premium, and inequality in the era of automation. I develop a theoretical model by introducing heterogeneous workers (skilled and unskilled) and endogenous human capital to a task model framework. I calibrate the model to fit the data between 1980 and 2005 and discuss the policy implications. I find that: (i) human capital and automation are racing against each other. Human capital accumulation decreases the automation level and increases the labor share by 0.33%. (ii) Uneven responses of skilled and unskilled workers amplify inequality, explaining 77% of the wage premium increase. Industry and occupation-level data confirm the empirical implications of the model. Automation has a positive effect on overall skill levels and training investment. The responses of human capital to automation of skilled and unskilled workers are significantly different.

“Jobless Recovery and Skill Mismatch”

Abstract: In a business cycle model with search and matching frictions, I explain the slow jobless recovery to be the result of a mismatch between worker skill and firm technology. The mismatch penalty increases the unemployment level and volatility, decreases the labor force participation rate, mainly by increasing the probability of matching failure. I extend the model by allowing workers and firms to adjust their skill and technology level. Endogenous skill and technology amplify the mismatch fluctuation, especially when the return to capital is high and the cost of technology adoption is significantly lower than the cost of training. By calibrating the full model to match the 1987-1993 and 2007-2013 data, I find an increased mismatch level in 2007-2013. Using state-level data, I find that mismatch is vital in explaining the state variation of the unemployment rate and volatility. Unemployment insurance can increase the matching quality. Subsidies to training can decrease the mismatch by reducing the skill mismatch.

“Central Bank Digital Currency in Small Open Economies”