

RONG FAN
<https://rfan1994.github.io>
fanrong@iu.edu

INDIANA UNIVERSITY BLOOMINGTON

Placement Director: Volodymyr Lugovskyy	vlugovsk@iu.edu	812-856-4594
Placement Coordinator: Elizabeth Bolyard	econgrad@iu.edu	812-855-8453

Office Contact Information:

Wylie Hall 105
100 S Woodlawn Ave
Bloomington IN 47405

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: Macro Labor, Economic Growth
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
Summer 2021	Undergraduate Intro to Applied Econometrics Graduate assistant for Prof. John Stone
Summer 2021	Undergraduate Fund of Economics for Business I Graduate assistant for Prof. John Stone
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, Summer 2021	Undergraduate Intro to Microeconomics Graduate assistant for Prof. Paul Graf

Research Experience:

Summer 2021, 2022	Indiana University Bloomington, Research Assistant for Prof. Todd B. Walker
Summer 2017	Organisation for Economic Cooperation and Development (OECD) Research Intern

Professional Activities:

Presentations:	IU seminar, EEA (2022), SEA (2022)
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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 how human capital responds to technological revolution since human capital is essential for understanding how labor share, wage premium, and inequality change 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. First, I find that human capital and automation are racing against each other. Human capital accumulation decreases the automation level and increases the labor share by 0.33%. Second, uneven responses of skilled and unskilled workers amplify inequality, explaining 77% of the wage premium increase. Industry and occupation-level data confirm the 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 after the Great Recession to be the result of a mismatch between worker skill and firm technology. The mismatch increases both the level and volatility of unemployment, while it decreases the labor force participation rate, mainly by increasing the probability of matching failure. I extend the model by allowing workers and firms to endogenously adjust their skill and technology levels. 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 in 2007-2013. Counterfactual experiments show that unemployment insurance can improve the matching quality, and subsidies to training can reduce the mismatch by stimulating the human capital investment. Using state-level data, I find that mismatch is vital in explaining the state variation of the unemployment rate and volatility.

“Central Bank Digital Currency in Small Open Economies”
with Todd Walker, Wayne Robinson and Allan Wright