

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

**INDIANA UNIVERSITY BLOOMINGTON**

Placement Director: Volodymyr Lugovsky	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 in Economic Growth"  
Expected Completion Date: May 2023

**References:**

Professor 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 TA for Prof. James Self
Spring, 2022	Graduate Macroeconomic Theory, TA for Prof. Bulent Guler
Fall, 2021	Undergraduate Fund of Economics for Business II, Instructor
Spring, 2021	Graduate Macroeconomic Theory, TA for Prof. Bulent Guler
Fall, 2020	Undergraduate Intro to Macroeconomics, Instructor
Spring, 2020	Graduate Macroeconomic Theory, TA for Prof. Bulent Guler
Fall, 2019	Undergraduate Intro to Macroeconomics, Instructor
Spring, 2019	Undergraduate Intro to Macroeconomics, Instructor
Fall, 2018	Undergraduate Intro to Macroeconomics, Instructor
Spring, 2018	Undergraduate Intro to Microeconomics, GA for Prof. Gerhard Glomm
Fall, 2017	Undergraduate Intro to Microeconomics, GA for Prof. Paul Graf

**Research Experience:**

Summer, 2021	IUB, Research Assistant for Prof. Todd Walker
Summer, 2017	OECD, 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:**

“Human Capital Adjustments in the Era of Automation” (Job Market Paper)

**Abstract:** Human capital accumulation responds to technological changes. I study the effects of automation industrial revolution on labor share, wage premium, and inequality under the framework of task model with heterogeneous workers (skilled and unskilled) and endogenous human capital. First, human capital accumulation races with automation, decreasing the automation level and increasing the labor share. Second, uneven responses of skilled and unskilled workers amplify the inequality effect, explaining 60% of the wage premium increase. I calibrate the model to fit the data between 1980 and 2005 and discuss the policy implications. Empirical evidence is provided at both industry and occupation levels. Automation has a positive effect on labor composition and overall skill level. The responses 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 and decrease vacancy creation. Subsidies to training can decrease the mismatch by increasing the investment in training.