

# Hanjoon Ryu

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(‘*Ryu*’: a touch of ‘*r*’ followed by ‘*you*’)

<b>EDUCATION</b>	<b>Duke University</b> <i>PhD Candidate</i> , Economics Expected to graduate in May 2026	Durham, NC Aug 2020 to present
	<b>Georgetown University</b> <i>Bachelor of Science</i> , International Economics	Washington, D.C. Aug 2009 to Dec 2012

<b>REFERENCES</b>	Adriano Rampini ( <a href="#">website</a> )	Douglas & Josie Breeden Professor of Financial Economics Fuqua School of Business, Duke University
	Gregor Jarosch ( <a href="#">website</a> )	Professor Department of Economics, Duke University
	S. “Vish” Viswanathan ( <a href="#">website</a> )	F. M. Kirby Professor of Investment Banking Fuqua School of Business, Duke University
	Andrea Lanteri ( <a href="#">website</a> )	Associate Professor Department of Economics, Duke University

<b>RESEARCH</b>	<b>Primary area:</b> macro/corporate finance <b>Interests:</b> financial frictions, firm dynamics, financial intermediation
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## Dilutive Financing Job market paper ([link](#))

*Abstract:* This paper presents a dynamic model of firm financing where firms use financial slack to reduce rent extraction by financiers possessing bargaining power. Financing is lumpy because it is optimal to bargain infrequently. Moreover, firms may finance ‘early’ before exhausting internal funds to bargain when their outside options are better. Financing rents are thus endogenous in firms’ dynamic financing strategy. Firms with good financing alternatives raise financing early to reduce rents, whereas firms lacking such alternatives raise financing after exhausting funds to avoid paying large rents too frequently. Given heterogeneous productivity, investment irreversibility increases average and dispersion of financing rents.

*Presented at:*

FRB Richmond-UVA-Duke Joint Macro Research Workshop (PhD session)	Sep 2025
Econometric Society World Congress	Aug 2025
Finance Theory Group Summer Conference	Jul 2025
Financial Intermediation Research Society Conference (PhD session)	May 2025
Macro-Finance Society Workshop (PhD poster session)	May 2025
American Finance Association Annual Meeting (PhD poster session)	Jan 2025
Economics Graduate Student Conference	Oct 2024
Duke University (Economics & Fuqua Finance)	

## Financing Innovative Assets: Endogenous Concentration in Startup Innovation Working paper ([link](#))

*Abstract:* This paper develops a model of startup innovation where financing frictions in implementing successful innovations concentrate prior innovation activity. Because funds are more valuable ex-post upon success of innovation than failure, there exists within-firm complementarity ex-ante between innovation and savings. Consequently, startup funds have increasing returns to scale, concentrating innovation towards well-funded startups that additionally raise costly entrepreneurial financing. Non-innovators

exhibit perfect inelasticity to financing costs – but only locally. Utilizing a model of financing frictions that enables tractable aggregation, I show that time-sensitiveness in implementation increases concentration while ease of ‘killer acquisitions’ decreases it. Concentration is amplified in general equilibrium.

*Presented at:*

Duke University (Macroeconomics)

Aug 2025

## AWARDS

*Duke University:*

<b>Katherine Goodman Stern Fellowship</b> (for dissertation)	AY 2025-2026
<b>Graduate School Summer Research Fellowship</b> (merit-based)	2025 / 2023
<b>Department of Economics Summer Research Fellowship</b>	2024
<b>Graduate School Summer Research Fellowship</b> (1 <sup>st</sup> /2 <sup>nd</sup> year)	2022 / 2021

## TEACHING

### AS INSTRUCTOR

<b>Main instructor / Co-instructor</b>	Duke University
PhD Boot Camp: Math for Economists	Summer 2023 / Summer 2022
A course designed to provide incoming PhD students in economics with essential understandings of analysis, probability, optimization, linear algebra, etc. ( <a href="#">syllabus</a> )	

### AS TEACHING ASSISTANT

<b>Teaching Assistant</b>	Duke University
BA 953 Corporate Finance	Spring 2025 / Spring 2024
Instructors: Adriano Rampini, S. “Vish” Viswanathan	
Finance-PhD seminar course on corporate/macro finance theory. Conducted separate sessions for introduction to continuous-time methods in addition to regular reviews.	

<b>Head Teaching Assistant</b>	Duke University
Econ 201 Intermediate Microeconomics I	Fall 2024 / Fall 2023
Instructor: Nelson Sá	
Overall course management, preparing teaching materials for discussion sections.	

<b>Teaching Assistant</b>	Duke University
Econ 706 Macroeconomic Analysis II	Spring 2022
Instructors: Kyle Jurado, Andrea Lanteri	
Second half of the first-year macro sequence in the first-year PhD core curriculum.	

<b>Teaching Assistant</b>	Duke University
Econ 601 Microeconomic Theory	Fall 2021
Instructor: Huseyin Yildirim	
A core course for the economics master program.	

### MISCELLANY

<b>Department-sponsored Tutor</b>	Duke University
Economics PhD core curriculum	Oct 2021 to June 2023
Tutored first-year economics PhD students on microeconomics, macroeconomics and econometrics in the PhD core curriculum.	

<b>Undergraduate Advisor</b>	Duke University
General	Fall 2021 to Spring 2025
Counseled undergraduate economics majors on course selection, Bachelor thesis, preparations for academic careers, etc.	

## INDUSTRY EXPERIENCE

<b>Investment Banking Analyst</b>	Samsung Securities (Seoul, Korea)
Alternative investment & real assets	Jan 2017 to May 2020
Engaged in investment underwriting across a broad range of global infrastructure assets, structuring investment products to tailor to the needs of domestic institutional	

investors. Conducted all-round due diligence on assets, appraised and modified seller-provided assumptions, and assessed risk exposures.

**Chartered Financial Analyst Program**, completed

Jun 2016

**ADDITIONAL**

**Nationality:** South Korea

(Name in Korean: 유한준)

First Lieutenant, Republic of Korea Air Force (2013 to 2016, honorably discharged)

**Language:** English (near-native), Korean (native), Japanese (basic conversational)

**Intellectually fond of:** theoretical physics, cosmology, math, philosophy/theology

**Personally fond of:** hiking, biking, walking, driving

Married, a daughter born in January 2021.