

Special Project in Econ Research | Spring '26

Gustavo Pereira

January 19, 2026

Introduction

Who am I

- I hold a PhD in Economics from Columbia University
- Currently work at Graham Capital Management as a Portfolio Analyst

Who are you?

- Interest in:
 - ① Academia?
 - ② Private sector jobs? Of what kind?
 - ③ Policy job?

Structure of the course

Roadmap I

- ① Groups are formed – deadline: next week (Jan 28)
 - if there are ungrouped people by week 3, I will act as central planner
- ② Pick a few interesting topics you may be interested in writing about
 - I have listed a few here
- ③ Study the literature on chosen topics and present to the class
- ④ Decide on your own project:
 - usually an incremental research question starting from the presented papers, replication or methodological tweak
 - weeks 2 - 7, in parallel with topic presentations
- ⑤ Deliver project plan
 - a concrete, actionable plan that can be executed in 7 weeks
 - deadline: Mar 6th
 - (continues →)

Roadmap II

⑥ Execution: results and write-up

- Present progress to class throughout the rest of the course
- Preliminary draft due on April 28th
- Final write-up due no later than May 8th

Roadmap: advice

- There is little time
- Topic choice
 - Pick a topic quickly and commit; do not overexplore
- Literature/topic presentations
 - Do not fall into the 'earlier literature' trap
 - Keep in mind whether you have access to relevant data
- You will need to allocate significant time each week. **You will not be able to 'wing it'**
- I expect you to pro-actively seek feedback and advice
 - The best projects so far have been done by groups that sought consistent feedback

What constitutes a reasonable project

① Extension of existing literature

- Applies same methodology to different (preferably **interesting**) context
- Different methodology to same question

② A successful replication of an advanced empirical/computational paper

③ Original ideas are welcome

- Advice: be modest

Evaluation

① Evaluation criteria:

- ① Class participation (20%)
 - Ability to demonstrate understanding of literatures
 - Intake of professor / classmate feedback
- ② Final draft quality (80%)

Comments on project requirements

- Needs to be a complete draft with introduction, literature review, methodology, findings and conclusion
- No requirement in terms of number of words or number of pages
 - you will get **no points** for adding boilerplate text / adjectives / adverbs
- Syllabus will be uploaded by next week

Topics

Interest rate trends in developed markets

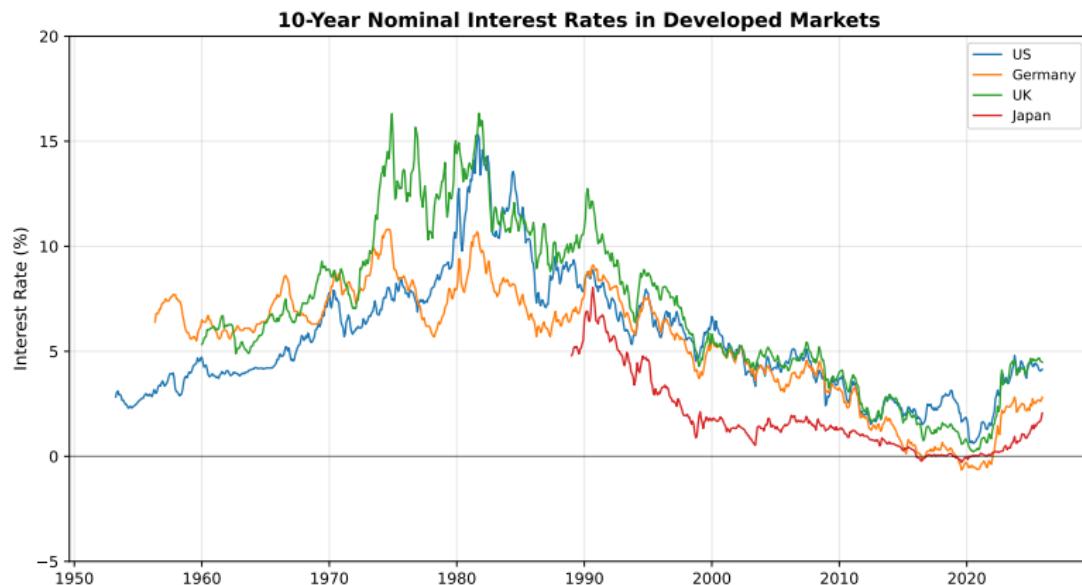


Figure: Nominal interest rates in developed markets, 1950s–present

- Rose gradually from early 1950s, peaked in early-to-mid 1980s
- Declining trend since then to historically low levels by 2010s

Are we in still in a secular stagnation world?

- Post-GFC world characterized by: low inflation, low growth, low interest rates
- Academics believed structural / secular shift drove interest rates down
 - Population growth / demographic shifts
 - Eggertsson, Mehrotra, and Summers 2016
 - Financial frictions
 - Caballero, Farhi, and Gourinchas 2008
- Question: are we going back to 2010-2020 equilibrium, or are rates 'higher for longer'?
 - Holston, Laubach, and Williams 2017

What are the limits to DMs fiscal capacity?

- Large, wartime-like fiscal expansion after 2020 pandemic
 - subsequent inflation + contractionary monetary policy
 - decline in value of government bond stock ⇒ loss to bondholders
- Questions:
 - ① What is the connection between the size of fiscal expansion and current level of rates?
 - ② How much additional fiscal capacity does 'dollar dominance' impart into US government?
 - ③ How much gov't deficit countercyclicality was / is priced into government yield curves?
- References:
 - Gomez Cram, Kung, and Lustig 2025
 - Jiang et al. 2023

The (macro-)economic impact of AI

- Quantifying AI: labor market impacts
 - Source of massive white-collar unemployment?
 - Large productivity gains?
 - References:
 - Acemoglu 2025
 - Eloundou et al. 2024
- AI and asset prices
 - 'Magnificent seven' explained bulk of stock market returns in the US over last few years
 - How much do public and private valuations reflect reasonable fundamentals?
 - Can such elevated asset prices be justified in general equilibrium?
 - Caballero 2025

Resources

Literature

- Google scholar is your friend
- If not doing so already, subscribe to NBER working paper series
 - A number papers that end up being published in the best journals first show up in NBER
 - Good for understanding what are hot topics
 - You can filter by topics of interest

Data

- For macroeconomic data, the St. Louis Fed FRED has plenty of relevant data
 - API accessible, so AI friendly
- NYU libraries offer many datasets
 - Most relevant for financial markets is WRDS
- Academic papers often have 'replication packages'
 - Often buried on journal pages and hard to find
 - Sometimes these things don't get picked up by google

AI

- Some words on AI usage

- Cursor, claude code, chatbots, workflow managers - all fair game for coding / data manipulation / bouncing ideas
- I expect writeups to be almost entirely your work
 - I don't mind use of AI tools for minor style adjustments / checks
- Last class will be a presentation of the final project – AI cannot present your work for you!

Biblio

Bibliography I

- Acemoglu, Daron. 2025. "The Simple Macroeconomics of AI*." *Economic Policy* 40 (121): 13–58. <https://doi.org/10.1093/epolic/eiae042>.
- Caballero, Ricardo J. 2025. "Speculative Growth and the AI." SSRN Scholarly Paper. Rochester, NY: Social Science Research Network.
- Caballero, Ricardo J., Emmanuel Farhi, and Pierre-Olivier Gourinchas. 2008. "An Equilibrium Model of 'Global Imbalances' and Low Interest Rates." *American Economic Review* 98 (1): 358–93.
<https://doi.org/10.1257/aer.98.1.358>.
- Eggertsson, Gauti B., Neil R. Mehrotra, and Lawrence H. Summers. 2016. "Secular Stagnation in the Open Economy." *American Economic Review* 106 (5): 503–7.
<https://doi.org/10.1257/aer.p20161106>.
- Eloundou, Tyna, Sam Manning, Pamela Mishkin, and Daniel Rock. 2024. "GPTs Are GPTs: Labor Market Impact Potential of LLMs." *Science* 384 (6702): 1306–8. <https://doi.org/10.1126/science.adj0998>.

Bibliography II

- Gomez Cram, Roberto, Howard Kung, and Hanno N. Lustig. 2025. "Can Treasury Markets Add and Subtract?" SSRN Scholarly Paper. Rochester, NY: Social Science Research Network.
- Holston, Kathryn, Thomas Laubach, and John C. Williams. 2017. "Measuring the Natural Rate of Interest: International Trends and Determinants." *Journal of International Economics*, 39Th Annual NBER International Seminar on Macroeconomics, 108 (May): S59–75.
<https://doi.org/10.1016/j.jinteco.2017.01.004>.
- Jiang, Zhengyang, Hanno Lustig, Stijn Van Nieuwerburgh, and Mindy Z. Xiaolan. 2023. "Fiscal Capacity: An Asset Pricing Perspective." *Annual Review of Financial Economics* 15 (Volume 15, 2023): 197–219.
<https://doi.org/10.1146/annurev-financial-110921-103651>.