

INSTITUT DE HAUTES ÉTUDES INTERNATIONALES ET DU DÉVELOPPEMENT GRADUATE INSTITUTE OF INTERNATIONAL AND DEVELOPMENT STUDIES

### **International Economics Development Economics**

Academic year 2021-2022

**Advanced International Macroeconomics B:** International Policy: Constraints, Changing **Effectiveness, and New Tools** 

El091 - Printemps - 3 ECTS

## **Course Description**

This course provides a graduate-level treatment of policy in international economics, with a focus on recent developments. It first reviews assess the drivers of the low level of interest rates in advanced (mostly) economies, as well as the impact of the rising global demand for safe assets. The course then presents the workhorse model of monetary policy design in open economies. It then moves to recent extensions of the model, namely the partial transmission of exchange rates to prices (with a discussion of the dominant role of some currencies), the presence of financial frictions, and the challenge from a lower bound on the interest rate. It proceeds with a review of the evidence of effectiveness of unconventional monetary policies. We then review research on dominant currencies, and the final section offers a discussion of topics that have recently emeraed.

The first part of the course consists of lectures. The second part consists of presentations of papers from the reading list (with the option to propose a paper not on the list that you would be particularly interested in presenting).

### > PROFESSOR

Cédric Tille

Office hours

# > ASSISTANT

#### Office hours

**Syllabus** 

### **Evaluation**

subject to change The evaluation consists of the presentations of a paper from the reading list (40% of grade), a short review of one of the topics (40% of grade) and participation in the classwide discussion (20% of grade).

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Each presentation lasts 30 minutes and goes over the main points of the paper. Each student will make one presentation. Preferences should be indicated by the end of the third week, and I will then put together the schedule ensuring an even coverage of topics.

Each student will also write a short review at the end of the course on a topic of her/his choice. The review should be a concise (5-6 pages) discussion of the recent advances in a topic, identifying what has been learnt and what are the remaining challenges. This review can form the basis of the literature review of your MPT or one of your chapters.

## 1) Safe assets

- Bacchetta, Philippe, and Kenza Benhima (2015). "The Demand for Liquid Assets, Corporate Saving, and Global Imbalances", *Journal of the European Economic Association* 13, pp. 1101-1135. http://people.unil.ch/philippebacchetta/files/2015/01/LiquidityandCapitalFlows\_2014\_1011.pdf
- Brunnermeier, Markus, and Lunyang Huang (2018). "A Global Safe Asset for and from Emerging Market Economies", NBER working paper 25373. http://www.nber.org/papers/w25373

Brunnermeier, Markus, Sam Langfield, Marco Pagano, Ricardo Reis, Stijn Van Nieuwerburgh, and Dimitri Vayanos (2016). "The Sovereign-Bank Diabolic Loop and ESBies", *American Economic Review* 106(5), pp. 508-12.

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- Caballero, Ricardo, Emmanuel Farhi, and Pierre-Olivier Gourinchas (2017). "The Safe Assets Shortage Conundrum", *Journal of Economic Perspectives* 31(3), pp. 29-46. https://www.aeaweb.org/articles?id=10.1257/jep.31.3.29
- Caballero, Ricardo, Emmanuel Farhi, and Pierre-Olivier Gourinchas (2016). "Safe Asset Scarcity and Aggregate Demand", NBER Working Paper No. 22044. http://www.nber.org/papers/w22044
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Engel, Charles (2020). "Safe U.S. Assets and U.S. Capital Flows", *Journal of International Money and Finance* 102.

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- Gourinchas, Pierre-Olivier, and Hélène Rey (2016). "Real Interest Rates, Imbalances and the Curse of Regional Safe Asset Providers at the Zero Lower Bound", NBER Working Paper 22618. http://www.nber.org/papers/w22618
- Habib, Maurizio Michel, Livio Stracca, and Fabrizio Venditti (2020). "The Fundamentals of Safe Assets", *Journal of International Money and Finance* 102. https://www.sciencedirect.com/science/article/pii/S0261560619305650#!
- He, Zhiguo, Arvind Krishnamurthy, and Konstantin Milbradt (2019). "A Model of Safe Asset Determination", *American Economic Review* 109(4), pp. 1230-1262. https://www.aeaweb.org/articles/pdf/doi/10.1257/aer.20160216
- Jiang, Zhengyang, Arvind Krishnamurthy, and Hanno Lustig (2020). "Dollar Safety and the Global Financial Cycle", NBER working paper 27682 https://www.nber.org/papers/w27682

## 2) Low interest rates

## 2.1) Patterns

- Bean, Charles, Christian Broda, Takatoshi Ito, and Randall Kroszner (2015). "Low for Long? Causes and Consequences of Persistently Low Interest Rates", Geneva report of the world economy 17. http://cepr.org/sites/default/files/geneva\_reports/GenevaP266.pdf
- Del Negro, Marco, Domenico Giannone, Marc Giannoni, and Andrea Tambalotti (2019). "Global Trends in Interest Rates", Journal of International Economics 118, pp. 248-262 https://www.sciencedirect.com/science/article/pii/S0022199618302927/pdfft?md5=8f7d2797e1f2d1b382a 4036c11477317&pid=1-s2.0-S0022199618302927-main.pdf
- Holston, Kathryn, Thomas Laubach, and John Williams (2018). "Measuring the Natural Rate of Interest: International Trends and Determinants" Journal of International Economics 108(S), pp. S59-75.

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Laubach, Thomas, and, John Williams (2016). "Measuring the Natural Rate of Interest Redux" Business Economics 51(2), pp. 57-67. http://www.frbsf.org/economic-research/publications/working-papers/wp2015-16.pdf

Pescatori. Andrea, and Jarkko Turunen (2016). "Lower for Longer: Neutral Rate in the U.S.", IMF Economic Review 64, pp. 708-731. https://www.imf.org/external/pubs/ft/wp/2015/wp15135.pdf

- Wang, Bin, and Yum Kwan (2021). "Measuring the natural rates of interest of OECD and BRICS economies: A time varying perspective", Journal of International Money and Finance 112. https://www.sciencedirect.com/science/article/pii/S0261560620302825
- Zhang, Ren, Enrique Martínez-García, Mark A. Wynne, and Valerie Grossman (2021). "Ties that bind: Estimating the natural rate of interest for small open economies", Journal of International Money and Finance

https://www.sciencedirect.com/science/article/pii/S0261560620302710?dgcid=coauthor

### 2.2) Possible causes

- Borio, Claudio, Piti Disyatat, Mikael Juselius, and Mathias Drehmann (2017). "Monetary Policy, the Financial Cycle, and Ultra-Low Interest Rates", International Journal of Central Banking, 13 (3) pp. 55-89. Discussion by Marc Giannoni. http://www.iicb.org/iournal/iicb17g3a2.htm http://www.ijcb.org/journal/ijcb17q3a2\_disc.pdf
- Chen, Peter, Loukas Karabarbounis, and Brent Neiman (2017). "The Global Rise of Corporate Savings", Journal of Monetary Economics 89, pp. 1-19. https://www.sciencedirect.com/science/article/pii/S0304393217300284
- Del Negro, Marco, Marc Giannoni, Domenico Giannone, and Andrea Tambalotti (2017). "Safety, Liquidity, and the Natural Rate of Interest", Brookings Papers on Economic Activity, pp. 235-316. https://www.brookings.edu/wp-content/uploads/2017/08/delnegrotextsp17bpea.pdf

Eggertsson, Gauti, Neil R. Mehrotra, and Sanjay R. Singh (2016). "A Contagious Malady? Open Economy Dimensions of Secular Stagnation", IMF Economic Review 64, pp. 581-634. https://link.springer.com/article/10.1057/s41308-016-0019-8

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Favero, Carlo, Arie E. Gozluklu, and Haoxi Yang (2016). "Demographics and the Behavior of Interest Rates", IMF Economic Review 64, pp. 732-776. https://link.springer.com/content/pdf/10.1057/s41308-016-0020-2.pdf

- Fiorentini, Gabriele, Alessandro Galesi, Gabriel Pörez-Quirós, and Enrique Sentana (2018). "The Rise and Fall of the Natural Interest rate", *CEPR Discussion Paper* 13042. http://cepr.org/active/publications/discussion\_papers/dp.php?dpno=13042
- Gagnon, Etienne, Benjamin Johannsen, and David Lopez-Salido (2016). "Understanding the New Normal: The Role of Demographics", Finance and Economics Discussion Series Divisions of Research & Statistics and Monetary Affairs 2016-080. https://www.federalreserve.gov/econresdata/feds/2016/files/2016080pap.pdf
- Glick, Reuven (2020). "R\* and the Global Economy", *Journal of International Money and Finance* 102.

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- Gourinchas, Pierre-Olivier, and Hélène Rey (2019). "Global real rates: a secular approach", BIS working paper 793. https://www.bis.org/publ/work793.htm
- Gruber, Joseph, and Seven Kamin (2016). "The Corporate Saving Glut and Falloff of Investment Spending in OECD Economies", *IMF Economic Review* 64, pp. 777-799. https://link.springer.com/article/10.1057/s41308-016-0018-9
- Kuyshinov, Dmitry, and Kaspar Zimmermann (2020) "The Expected Return on Risky Assets: International Long-run Evidence", CEPR discussion paper 15610. https://cepr.org/active/publications/discussion\_papers/dp.php?dpno=15610
- Lo, Stephanie, and Kenneth Rogoff (2016). "Secular stagnation, debt overhang and other rationales for sluggish growth, six years on", BIS working paper 482. http://www.bis.org/publ/work482.pdf
- Rachel, Lukasz, and Lawrence Summers (2019). "On Secular Stagnation in the Industrialized World", *Brookings Papers on Economic Activity*, pp. 1-76. https://www.brookings.edu/wp-content/uploads/2019/03/RachelSummers web.pdf
- Rachel, Lukasz, and Thomas Smith (2017). "Are Low Real Interest Rates Here to Stay?", *International Journal of Central Banking*, 13 (3) pp. 1-42. Discussion by Pierre-Olivier Gourinchas. http://www.ijcb.org/journal/ijcb17q3a1.htm http://www.ijcb.org/journal/ijcb17q3a1\_disc.pdf
- Marx, Magali, Benoit Mojon, and François Velde (2019). "Why have interest rates fallen far below the return on capital", BIS working paper 794. https://www.bis.org/publ/work794.htm

## 2.3) Consequences

- Abildgren, Kim, and Andreas Kuchler, (2020) "Do firms behave differently when nominal interest rates are below zero?", Danmarks Nationalbank working paper 164. https://www.nationalbanken.dk/en/publications/Pages/2020/11/Working-Paper-Do-firms-behave-differently-when-nominal-interest-rates-are-below-zero.aspx
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- Brei, Michael. Claudio Borio, and Leonardo Gambacorta (2019). "Bank intermediation activity in a low interest rate environment", BIS working paper 807. https://www.bis.org/publ/work807.htm
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- Heider, Florian, Farzad Saidi, and Glenn Schepens (2019). "Life below Zero: Bank Lending under Negative Policy Rates ", Review of Financial Studies 32(10), pp, 3728–3761. https://academic.oup.com/rfs/article/32/10/3728/5307779
- International Monetary Fund (2020) "Banking Sector: Low Rates, Low Profits?", Global Financial Stability Report chapter 4, April. https://www.imf.org/-/media/Files/Publications/GFSR/2020/April/English/ch4.ashx
- International Monetary Fund (2019). "Institutional Investors: Falling Rates, Rising Risks", Global Financial Stability Report, chapter 3. https://www.imf.org/~/media/Files/Publications/GFSR/2019/October/English/ch3.ashx?la=en
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# 3) Macroeconomic policy in the crisis

# 3.1) Key patterns of the global and euro crises

- Berger, Helge, Giovanni Dell'Ariccia, and Maurice Obstfeld (2019). "Revisiting the Economic Case for Fiscal Union in the Euro Area", IMF Economic Review 67(3) pp. 657-683. https://link.springer.com/content/pdf/10.1057/s41308-019-00089-x.pdf
- Brunnermeier, Markus, and Ricardo Reis (2019). "A Crash Course on the Euro Crisis", NBER working paper 26229. https://www.nber.org/papers/w26229.pdf
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- Duffie, Darrell (2019). "Prone to Fail: The Pre-crisis Financial System", Journal of Economic Perspectives 33(1) pp. 81-106. https://www.aeaweb.org/articles/pdf/doi/10.1257/jep.33.1.81

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http://www.brookings.edu/about/projects/bpea/papers/2012/euros-three-crises-shambaugh

## 3.2) The standard model of international policy

Corsetti, Giancarlo, Luca Dedola, and Sylvain Leduc (2010). "Optimal monetary policy in open economies", in Handbook of Monetary Economics. https://sites.google.com/site/giancarlocorsetti/main/handbook-codele.pdf?attredirects=0

- Corsetti, Giancarlo and Paolo Pesenti (2007) "The simple geometry of transmission and stabilization in closed and open economy", NBER International Seminar on Macroeconomics 2007 http://ideas.repec.org/h/nbr/nberch/3000.html
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## 3.3) Selected recent developments in policy models

- Auray, Stéphane, Michael Devereux, and Aurélien Eyquem (2020). "Trade Wars, Currency Wars", NBER working paper 27460 https://www.nber.org/papers/w27460
- Banerjee, Ryan, Michael Devereux, and Giovanni Lombardo (2016). "Self-oriented monetary policy, global financial markets and excess volatility of international capital flows", Journal of International Money and Finance 68, pp. 275-297.

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- Bodenstein, Martin, Giancarlo Corsetti, and Luca Guerrieri (2020) "The Elusive Gains from Nationally-Oriented Monetary Policy", CEPR discussion paper 14359. https://cepr.org/active/publications/discussion papers/dp.php?dpno=14359

Corsetti, Giancarlo, Eleonora Mavroeidi, Gregory Thwaites, and Martin Wolf (2019). "Step away from the zero lower bound: Small open economies in a world of secular stagnation", Journal of International Economics 116, pp. 88-102 https://www.sciencedirect.com/science/article/pii/S002219961830254X/pdfft?md5=252d3001dc22591ad1 80ca46a6719e7f&pid=1-s2.0-S002219961830254X-main.pdf

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- Cook, David, and Michael Devereux (2016) "Exchange Rate Flexibility under the Zero Lower Bound: the Need for Forward Guidance" Journal of International Economics, 101(C), pp. 52-69. http://www.sciencedirect.com/science/article/pii/S0022199616300460
- Devereux, Michael, Charles Engel, and Giovanni Lombardo (2020) "Implementable Rules for International Monetary Policy Coordination", IMF Economic Review 68, pp. 108-162. https://link.springer.com/article/10.1057/s41308-019-00104-1
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## 3.4) Unconventional monetary policies: patterns

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## 3.5) Unconventional monetary policies: domestic and international impact

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## 3.6) What tools for the future?

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- Erceg, Christopher, Zoltan Jakab, and Jesper Lindé (2021) "Monetary Policy Strategies for the ECB", presentation. https://ab366ed7-a1d8-462b-97f9-

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### 3.7) Financial vs. monetary stability

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