

Econ 8702 – Monetary Economics

Syllabus

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Spring 2024

Course Overview

In this course we will study papers dealing with two topics that have played a major role in the recent research in monetary economics: monetary/fiscal interactions and information frictions. In the first part of the course, we will revisit the problem of equilibrium multiplicity in monetary models, and discuss how fiscal policy can be used as an “anchor” to prune equilibria. We will then study broader implications of the joint budget constraint that ties monetary and fiscal authorities, particularly as it relates to the way monetary policy has been conducted in the last 15 years. In the second part of the course, we will consider the role of monetary policy in environments with information frictions. We will start from some abstract papers dealing with environment with dispersed information, and then consider applications that have used the general ideas to study the response of the economy to policy shocks, as well as revisit the question of equilibrium multiplicity in this context. This list is tentative; I will make adjustments as we go along. I plan to present starred readings. Other papers are there as background, or as options for you to present if you are interested.

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Grading

Your grade will be based on a class presentation of a paper of your choice. Please get in touch with me by April 1st with a paper suggestion. You can pick from some of the readings in the syllabus that I will not cover, or ask me for further advice, or make your own suggestion, as long as it fits with the theme of the course.

1 Monetary/Fiscal Interaction in Ramsey Models (background topic, not covered in class)

- Lucas and Stokey (1983)
- Siu (2004)
- Aiyagari, Marcet, Sargent, and Seppälä (2002)
- Bassetto (2014)
- Bhandari, Evans, Golosov, and Sargent (2016)
- Bhandari, Evans, Golosov, and Sargent (2017)
- Bhandari, Evans, Golosov, and Sargent (2018)
- Auclert (2019)

2 Review of Price Level Determinacy and the Fiscal Theory of the Price Level, Regime Switching

- * Bassetto (2017), chapters 2-4
- Woodford (1994)

- Clarida, Galí and Gertler (1999)
- Clarida, Galí and Gertler (2000)
- * Cochrane (2001)
- Cochrane (2005)
- Cochrane (2011)
- Cochrane (2023)
- Chung, Davig, and Leeper (2007)
- Davig and Leeper (2007)
- Davig and Leeper (2010)

3 Some Empirical Work Related to the Monetary/Fiscal Interactions

- Canzoneri, Cumby, and Diba (2010)
- *Bassetto and Butters (2010)
- Bianchi and Melosi (2019)
- Bianchi, Melosi, and Rottner (2019)
- Bianchi and Melosi (2022)
- Bianchi, Faccini, and Melosi (2023)
- *Barro and Bianchi (2023)
- Hall and Sargent (2011)

- Hall and Sargent (2014)
- Hall and Sargent (2015)
- Hall and Sargent (2018)
- *Hall and Sargent (2023)
- Payne, Szöke, Hall, and Sargent (2024)

4 Central Banking in the Fiscal Theory of the Price Level

- Sargent and Wallace (1981)
- *Sims (2001)
- * Bassetto and Messer (2013)
- Greenlaw, Hamilton, Hooper, and Mishkin (2013)
- Hall and Reis (2015)
- Del Negro and Sims (2015)
- Reis (2017)
- * Bassetto and Caracciolo (2021)

5 Strategic Models of Monetary/Fiscal Interaction

- * Camous and Matveev (2023)
- Barthélemy, Mengus, and Plantin (2021)

6 Monetary/Fiscal Interaction with Low Interest Rates

- Sargent and Wallace (1982)
- Blanchard (2019)
- Bassetto and Sargent (2020)
- *Bassetto and Cui (2018)
- Mehrotra and Sergeyev (2021)
- Brumm, Feng, Kotlikoff, and Kubler (2021)
- Reis (2021)
- Aguiar, Amador, and Arellano (2021)
- Mian, Straub, and Sufi (2022)
- Angeletos, Lian, and Wolf (2023)

7 Fiscal Capacity in Finance

- Hansen, Roberds, and Sargent (1991)
- Hilscher, Raviv, and Reis (2021)
- Jiang, Lustig, Nieuwerburgh, and Xiaolan (2022)
- Jiang, Lustig, Nieuwerburgh, and Xiaolan (2023)

8 Global Games and Equilibrium Selection (background topic)

- Carlsson and van Damme (1993)

- Morris and Shin (1998)
- Chamley (1999)
- Angeletos, Hellwig, and Pavan (2006)
- Angeletos, Hellwig, and Pavan (2007)

9 The Social Value of Public Information

- *Morris and Shin (2002)
- *Angeletos and Pavan (2007)
- *Angeletos and Pavan (2009)
- Hellwig and Veldkamp (2009)
- Chahrour (2014)
- Caracciolo (2022)

10 Business Cycle Theories Based on Dispersed Information

- Maćkowiak and Wiederholt (2009)
- Lorenzoni (2009)
- Angeletos and La'O (2010)
- Lorenzoni (2010)
- Angeletos and La'O (2013)
- Paciello and Wiederholt (2013)

- Maćkowiak and Wiederholt (2015)
- Angeletos and La'O (2020)

11 Equilibrium Selection and Policy with Dispersed Information

- Angeletos and Sastry (2021)
- *Angeletos and Lian (2023)

12 Merging Dispersed Information and Fiscal Sustainability

- Hellwig, Mukherji, and Tsyvinski (2006)
- Albagli, Hellwig, and Tsyvinski (2011)
- *Bassetto and Galli (2019)
- Bassetto and Miller (2022)
- Gaballo and Galli (2024)

References

- AGUIAR, M. A., M. AMADOR, AND C. ARELLANO (2021): “Micro Risks and (Robust) Pareto Improving Policies,” Working Paper 28996, National Bureau of Economic Research.
- AIYAGARI, R., A. MARCET, T. J. SARGENT, AND J. SEPPÄLÄ (2002): “Optimal Taxation without State-Contingent Debt,” *Journal of Political Economy*, 110(6), 1220–1254.

- ALBAGLI, E., C. HELLWIG, AND A. TSYVINSKI (2011): “A Theory of Asset Pricing Based on Heterogeneous Information,” Working Paper 17548, National Bureau of Economic Research.
- ANGELETOS, G.-M., C. HELLWIG, AND A. PAVAN (2006): “Signaling in a Global Game: Coordination and Policy Traps,” *Journal of Political Economy*, 114(3), 452–484.
- (2007): “Dynamic Global Games of Regime Change: Learning, Multiplicity, and the Timing of Attacks,” *Econometrica*, 75(3), 711–756.
- ANGELETOS, G.-M., AND J. LA’O (2013): “Sentiments,” *Econometrica*, 81(2), 739–779.
- (2020): “Optimal Monetary Policy with Information Frictions,” *Journal of Political Economy*, 128(3), 1027–1064.
- ANGELETOS, G.-M., AND J. LA’O (2010): “Noisy Business Cycles,” *NBER Macroeconomics Annual*, 24, 319–378.
- ANGELETOS, G.-M., AND C. LIAN (2023): “Determinacy without the Taylor Principle,” *Journal of Political Economy*, 131(8), 2125–2164.
- ANGELETOS, G.-M., C. LIAN, AND C. K. WOLF (2023): “Can Deficits Finance Themselves?,” Working Paper 31185, NBER.
- ANGELETOS, G.-M., AND A. PAVAN (2007): “Efficient Use of Information and Social Value of Information,” *Econometrica*, 75(4), 1103–1142.
- (2009): “Policy with Dispersed Information,” *Journal of the European Economic Association*, 7(1), 1–50.
- ANGELETOS, G.-M., AND K. A. SASTRY (2021): “Managing Expectations: Instruments Versus Targets,” *Quarterly Journal of Economics*, 136(4), 2467–2532.
- AUCLERT, A. (2019): “Monetary Policy and the Redistribution Channel,” *American Economic Review*, 109(6), 2333–2367.

- BARRO, R. J., AND F. BIANCHI (2023): “Fiscal Influences on Inflation in OECD Countries, 2020-2022,” Working Paper 31838, NBER.
- BARTHÉLEMY, J., E. MENGUS, AND G. PLANTIN (2021): “The Central Bank, the Treasury, or the Market: Which One Determines the Price Level?,” Discussion Paper 16679, CEPR.
- BASSETTO, M. (2014): “Optimal Fiscal Policy with Heterogeneous Agents,” *Quantitative Economics*, 5(3), 675–704.
- (2017): “Monetary and Fiscal Rules and Their Interaction,” <http://www.nber.org/~bassetto/bassettomonetaryfiscalinteraction.pdf>, Mimeo.
- BASSETTO, M., AND R. A. BUTTERS (2010): “What is the Relationship between Large Deficits and Inflation in Industrialized Countries?,” *Economic Perspectives, Federal Reserve Bank of Chicago*, 34(3), 83–100.
- BASSETTO, M., AND G. G. CARACCILO (2021): “Monetary/Fiscal Interactions with Forty Budget Constraints,” Working Paper 788, Federal Reserve Bank of Minneapolis.
- BASSETTO, M., AND W. CUI (2018): “The Fiscal Theory of the Price Level in a World of Low Interest Rates,” *Journal of Economic Dynamics and Control*, 89, 5–22.
- BASSETTO, M., AND C. GALLI (2019): “Is Inflation Default? The Role of Information in Debt Crises,” *American Economic Review*, 109(10), 3556–84.
- BASSETTO, M., AND T. MESSER (2013): “Fiscal Consequences of Paying Interest on Reserves,” *Fiscal Studies*, 34(4), 413–546.
- BASSETTO, M., AND D. S. MILLER (2022): “A Monetary/Fiscal Theory of Sudden Inflations,” Staff Report 641, Federal Reserve Bank of Minneapolis.
- BASSETTO, M., AND T. J. SARGENT (2020): “Shotgun Wedding: Fiscal and Monetary Policy,” *Annual Review of Economics*, 12(1), null.

- BHANDARI, A., D. EVANS, M. GOLOSOV, AND T. J. SARGENT (2016): “Fiscal Policy and Debt Management with Incomplete Markets,” *The Quarterly Journal of Economics*, 132(2), 617–663.
- (2017): “Public Debt in Economies with Heterogeneous Agents,” *Journal of Monetary Economics*, 91, 39–51.
- (2018): “Inequality, Business Cycles, and Monetary-Fiscal Policy,” Working Paper 24710, NBER.
- BIANCHI, F., R. FACCINI, AND L. MELOSI (2023): “A Fiscal Theory of Persistent Inflation,” *Quarterly Journal of Economics*, 138(4), 2127–2179.
- BIANCHI, F., AND L. MELOSI (2019): “The Dire Effects of the Lack of Monetary and Fiscal Coordination,” *Journal of Monetary Economics*, 104, 1–22.
- (2022): “Inflation as a Fiscal Limit,” in *Proceedings of the Jackson Hole Symposium: Reassessing Constraints on the Economy and Policy*. Federal Reserve Bank of Kansas City.
- BIANCHI, F., L. MELOSI, AND M. ROTTNER (2019): “Hitting the Elusive Inflation Target,” Discussion Paper 14161, CEPR.
- BLANCHARD, O. (2019): “Public Debt and Low Interest Rates,” *American Economic Review*, 109(4), 1197–1229.
- BRUMM, J., X. FENG, L. KOTLIKOFF, AND F. KUBLER (2021): “When Interest Rates Go Low, Should Public Debt Go High?,” <https://kotlikoff.net/wp-content/uploads/2021/05/When-Interest-Rates-Go-Low-Should-Public-Debt-Go-High.pdf>, Mimeo.
- CAMOUS, A., AND D. MATVEEV (2023): “The Central Bank Strikes Back! Credibility of Monetary Policy under Fiscal Influence,” *Economic Journal*, 133(649), 1–29.
- CANZONERI, M., R. CUMBY, AND B. DIBA (2010): “The Interaction Between Monetary and Fiscal Policy,” in *Handbook of Monetary Economics*, ed. by B. M. Friedman and M. Woodford, vol. 3. Elsevier, 935–999.

- CARACCILO, G. G. (2022): “Parole, Parole, Parole: The Importance of Central Bank Communication,” https://drive.google.com/file/d/12csXRgR6WaQIPb_uFk_QkMK3lBOKN3Tk/view, Mimeo, University College London.
- CARLSSON, H., AND E. VAN DAMME (1993): “Global Games and Equilibrium Selection,” *Econometrica*, 61(5), 989–1018.
- CHAHROUR, R. (2014): “Public Communication and Information Acquisition,” *American Economic Journal: Macroeconomics*, 6(3), 73–101.
- CHAMLEY, C. (1999): “Coordinating Regime Switches,” *Quarterly Journal of Economics*, 114(3), 869–905.
- CHUNG, H., T. DAVIG, AND E. M. LEEPER (2007): “Monetary and Fiscal Policy Switching,” *Journal of Money, Credit and Banking*, 39(4), 809–842.
- CLARIDA, R., J. GALÍ AND M. GERTLER (1999): “The Science of Monetary Policy: A New Keynesian Perspective,” *Journal of Economic Literature*, 37(4), 1661–1707.
- (2000): “Monetary Policy Rules and Macroeconomic Stability: Evidence and Some Theory,” *Quarterly Journal of Economics*, 115(1), 147–180.
- COCHRANE, J. H. (2001): “Long Term Debt and Optimal Policy in the Fiscal Theory of the Price Level,” *Econometrica*, 69(1), 69–116.
- (2005): “Money as Stock,” *Journal of Monetary Economics*, 52(3), 501–528.
- (2011): “Determinacy and Identification with Taylor Rules,” *Journal of Political Economy*, 119(3), 565–615.
- (2023): *The Fiscal Theory of the Price Level*. Princeton University Press.
- DAVIG, T., AND E. M. LEEPER (2007): “Generalizing the Taylor Principle,” *The American Economic Review*, 97(3), 607–635.

- (2010): “Generalizing the Taylor Principle: Reply,” *The American Economic Review*, 100(1), 618–624.
- DEL NEGRO, M., AND C. A. SIMS (2015): “When Does a Central Bank’s Balance Sheet Require Fiscal Support?,” *Journal of Monetary Economics*, 73, 1–19.
- GABALLO, G., AND C. GALLI (2024): “Asset Purchases in Noisy Financial Markets with Fiscal-Monetary Interactions,” <https://carlogalli.github.io/gaballogalli-draft.pdf>, Mimeo, HEC Paris and Universidad Carlos III de Madrid.
- GREENLAW, D., J. D. HAMILTON, P. HOOPER, AND F. S. MISHKIN (2013): “Crunch Time: Fiscal Crises and the Role of Monetary Policy,” Working Paper 19297, NBER.
- HALL, G. J., AND T. J. SARGENT (2011): “Interest Rate Risk and Other Determinants of Post WW-II U.S. Government Debt/GDP Dynamics,” *American Economic Journal: Macroeconomics*, 3(3), 192–214.
- (2014): “Fiscal Discrimination in Three Wars,” *Journal of Monetary Economics*, 61, 148–166.
- (2015): “A History of U.S. Debt Limits,” Working Paper 21799, NBER.
- (2018): “Brief History of US Debt Limits Before 1939,” *Proceedings of the National Academy of Sciences*, 115(12), 2942–2945.
- (2023): “Fiscal Consequences of the US War on COVID,” http://people.brandeis.edu/~ghall/papers/Fiscal_Consequences.pdf, Mimeo, Brandeis University and NYU.
- HALL, R. E., AND R. REIS (2015): “Maintaining Central-Bank Financial Stability under New-Style Central Banking,” Working Paper 21173, NBER.
- HANSEN, L. P., W. T. ROBERDS, AND T. J. SARGENT (1991): “Time Series Implications of Present Value Budget Balance and of Martingale Models of Consumption and Taxes,” in *Rational Expectations Econometrics*. Westview Press, 121–161.

- HELLWIG, C., A. MUKHERJI, AND A. TSYVINSKI (2006): “Self-Fulfilling Currency Crises: The Role of Interest Rates,” *The American Economic Review*, 96(5), 1769–1787.
- HELLWIG, C., AND L. VELDKAMP (2009): “Knowing What Others Know: Coordination Motives in Information Acquisition,” *The Review of Economic Studies*, 76(1), 223–251.
- HILSCHER, J., A. RAVIV, AND R. REIS (2021): “Inflating Away the Public Debt? An Empirical Assessment,” *Review of Financial Studies*, 35(3), 1553–1595.
- JIANG, Z., H. LUSTIG, S. V. NIEUWERBURGH, AND M. Z. XIAOLAN (2022): “Measuring US Fiscal Capacity Using Discounted Cash Flow Analysis,” *Brookings Papers on Economic Activity*.
- (2023): “Fiscal Capacity: An Asset Pricing Perspective,” *Annual Review of Financial Economics*, 15.
- LORENZONI, G. (2009): “A Theory of Demand Shocks,” *American Economic Review*, 99(5), 2050–84.
- (2010): “Optimal monetary policy with uncertain fundamentals and dispersed information,” *Review of Economic Studies*, 77(1), 305–338.
- LUCAS, JR., R. E., AND N. L. STOKEY (1983): “Optimal Fiscal and Monetary Policy in an Economy without Capital,” *Journal of Monetary Economics*, 12, 55–93.
- MAĆKOWIAK, B., AND M. WIEDERHOLT (2009): “Optimal Sticky Prices under Rational Inattention,” *American Economic Review*, 99(3), 769–803.
- (2015): “Business Cycle Dynamics under Rational Inattention,” *The Review of Economic Studies*, 82(4), 1502–1532.
- MEHROTRA, N. R., AND D. SERGEYEV (2021): “Debt Sustainability in a Low Interest Rate World,” *Journal of Monetary Economics*, 124, S1–S18.

- MIAN, A. R. M., L. STRAUB, AND A. SUFI (2022): “A Goldilocks Theory of Fiscal Deficits,” Working Paper 29707, NBER.
- MORRIS, S., AND H. S. SHIN (1998): “Unique Equilibrium in a Model of Self-Fulfilling Currency Attacks,” *American Economic Review*, 88(3), 587–597.
- (2002): “Social Value of Public Information,” *American Economic Review*, 92(5), 1521–1534.
- PACIELLO, L., AND M. WIEDERHOLT (2013): “Exogenous Information, Endogenous Information, and Optimal Monetary Policy,” *The Review of Economic Studies*, 81(1), 356–388.
- PAYNE, J., B. SZÖKE, G. J. HALL, AND T. J. SARGENT (2024): “US Monetary, Financial, and Fiscal Priorities,” https://people.brandeis.edu/~ghall/papers/PSHS_MFF_20240116.pdf, Mimeo, Princeton University, Board of Governors of the Federal Reserve System, Brandeis University, and New York University.
- REIS, R. (2017): “QE in the Future: The Central Bank’s Balance Sheet in a Fiscal Crisis,” *IMF Economic Review*, 65(1), 71–112.
- (2021): “The Constraint on Public Debt when $r < g$ but $g < m$,” Discussion Paper 15950, CEPR.
- SARGENT, T. J., AND N. WALLACE (1981): “Some Unpleasant Monetarist Arithmetic,” *Federal Reserve Bank of Minneapolis Quarterly Review*, 5(1), 1–17.
- (1982): “The Real-Bills Doctrine versus the Quantity Theory: A Reconsideration,” *Journal of Political Economy*, 90(6), 1212–1236.
- SIMS, C. A. (2001): “Fiscal Consequences for Mexico of Adopting the Dollar,” *Journal of Money, Credit, and Banking*, 33(2), 597–616.
- SIU, H. E. (2004): “Optimal Fiscal and Monetary Policy with Sticky Prices,” *Journal of Monetary Economics*, 51(3), 575 – 607.

WOODFORD, M. (1994): “Monetary Policy and Price Level Determinacy in a Cash-in-Advance Economy,” *Economic Theory*, 4(3), 345–380.