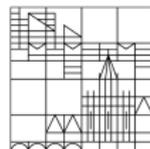


Fiscal Multipliers and Financial Crises

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Discussion
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Contribution of the Paper

Research Question

- ▶ What were the effects of fiscal policy on aggregate consumption during the Great Recession?
 - ▶ government purchases
 - ▶ transfers to households
 - ▶ equity injections and transfers to the financial sector
 - ▶ credit and asset guarantees
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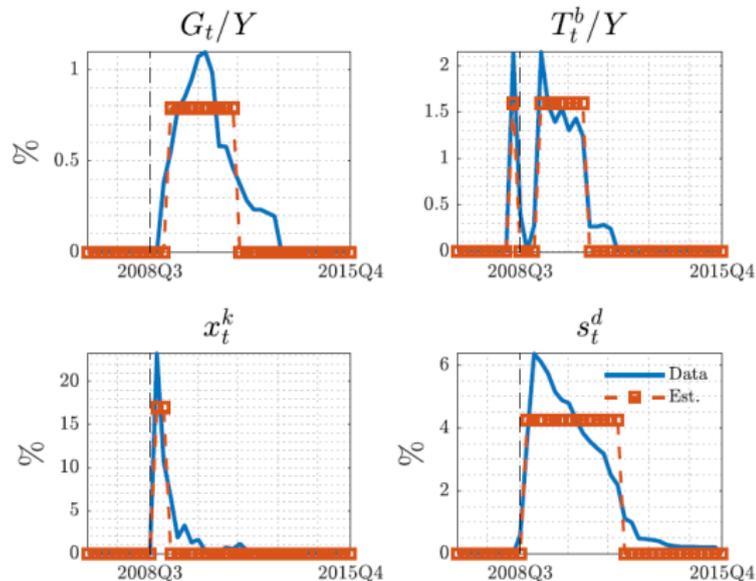
New Keynesian Model with Financial Sector

- ▶ Households:
 - ▶ Two types who differ in their preference for housing.
 - ▶ Savers invest in short-term bank deposits and government debt.
 - ▶ Borrowers own houses, have long-term debt and face a loan-to-value constraint.
 - ▶ A fraction m of the borrowers has to move, receives idiosyncratic housing quality shocks and may default.
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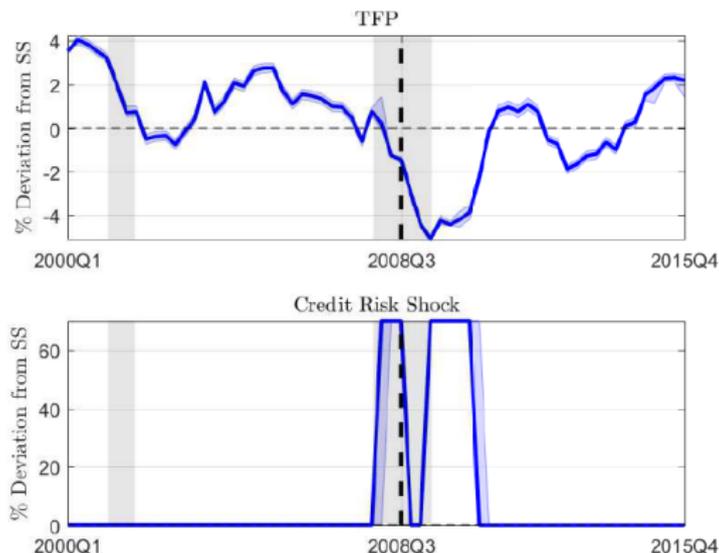
- ▶ Financial Sector:
 - ▶ Banks have short-terms deposits and long-term debt.
 - ▶ Banks face a leverage constraint: market value of assets has to be smaller than the ex-dividend market value of the bank.
 - ▶ Banks are hit by idiosyncratic shocks to their asset portfolio and may default on deposits.
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Quantitative Analysis and Findings

- ▶ Feeding observed fiscal measures into the model:



- ▶ Given fiscal policies, estimation of TFP-shocks and credit shocks to match aggregate consumption and credit spreads:



▶ Findings:

- ▶ Without fiscal interventions the fall in aggregate consumption would have been twice as worse.
 - ▶ Transfers and equity injections were most effective.
 - ▶ Fiscal multipliers are state-dependent.
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- ▶ Without fiscal interventions the fall in aggregate consumption would have been twice as worse.
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▶ Channel:

- ▶ Transfers to borrowers sustain disposable income, increase house prices and reduce default rates → banks lend more at lower rates.
 - ▶ Bank recapitalization reduces costs of funds and increases lending → disposable income of households increases.
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Comments

Distributional Effects and Welfare

- ▶ What are the distributional effects of the various fiscal interventions?
 - ▶ In the counterfactual experiments, how are borrowers' consumption and savers' consumption affected?
 - ▶ What are the welfare effects for savers and borrowers? What are the aggregate welfare effects?
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Mapping Fiscal Policy Data to the Model

- ▶ Government Purchases G :
 - ▶ The ARRA contained substantial amounts of government investment: infrastructure, energy.
 - ▶ Distinction between government consumption and government investment may be important, see Drautzburg and Uhlig (2015).
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 - ▶ Transfers T^b :
 - ▶ ESA, ARRA and TARP contained various measures including tax cuts, transfers and help for borrowers/homeowners.
 - ▶ Is it feasible to distinguish between the different measures?
 - ▶ E.g., programs for homeowners in need. In the model: fraction m of borrowers that are hit by the house quality shock.
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The Role of Durable Spending

- ▶ Berger and Vavra (2015):
 - ▶ Durable adjustment is infrequent, particularly during recessions.
 - ▶ Substantial state-dependence: Recessions lead to a decline in the probability of durable adjustment of 20 % (of selling/buying a house of 15 %).
 - ▶ The fiscal stimulus packages contained subsidies to durable adjustment, e.g., Cash for Clunkers.
 - ▶ How important are these fiscal tools?
 - ▶ Decomposition of aggregate consumption: non-durable and durable.
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The Role of the Zero Lower Bound

- ▶ There is a large literature analyzing the size of the government spending multiplier at the ZLB.
 - ▶ How effective are the various fiscal interventions at the ZLB?
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The Role of Credit to the Corporate Sector

- ▶ In the model, there is no interaction between the financial sector and the corporate sector.
 - ▶ Including credit to the corporate sector may be important when analyzing the impact of equity injections.
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Other Comments

- ▶ Financial crises are exogenous events.
 - ▶ To evaluate the fit of the model, it would be informative to plot the non-targeted variables as well, in particular nominal interest rate, household debt, house prices, household default rate.
 - ▶ Critical parameters, e.g., fraction of borrowers (homeowners)
 $\chi = 0.45$.
 - ▶ Maturity of government debt.
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Conclusion

- ▶ Great paper on the effectiveness of various fiscal tools during the Great Recession.
 - ▶ Contributions:
 - ▶ Incorporation of a financial sector and equilibrium default in a New Keynesian model.
 - ▶ Global solution method takes into account occasionally binding constraints and nonlinearities.
 - ▶ Very insightful quantitative assessment.
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