

Background

• Student debt is currently the second largest category of household credit after mortgage debt.

- Recent graduates are more likely to be credit constrained and have to lower consumption while paying off student loans.
- The microeconomic literature has been uncovering statistically and economically significant relationships between student debt and household decisions, such as marriage, homeownership and default.
- The link between student debt and household consumption has not been examined directly.
- Macroeconomic studies focus on total household credit or only on mortgage debt.

The Effect of Student Debt on Consumption: A State-Level Analysis

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Results

Effects on Consumption

- 1 percentage point higher change in student debt to income ratio leads to 2.97 percentage point lower consumption growth during the subsequent three years.
- Higher magnitude of the effect when we control for lags in consumption growth that factor in macroeconomic conditions and mean reversion.
- OLS results are biased up, consistent with positive indirect effect of student loans on consumption through education.

 $\Delta_3(StudentDebt/Income)_{t-1}$

 $\Delta_3(OtherDebt/Income)_{t-1}$

 $\Delta_3\% CollegeGrad_{t-1}$

 $\Delta_3\% SomeCollege_{t-1}$

 $\Delta \ln C_{t-1}, \Delta \ln C_{t-2}, \Delta \ln C_{t-3}$

 $\Delta_3 SubsidizedLimit_{t-2} \times Exposure$

 $|\Delta_3 PellLimit_{t-2} \times Exposure|$

 $\Delta_3 Other Debt / Income_{t-1}$

 $\Delta_3\% CollegeGrad_{t-1}$

 $\Delta_3\% SomeCollege_{t-1}$

F stat of excluded instruments Hansen J statistic

P value of J statistic

Results are robust to:

- using alternative lag structures;
- exclude Pell grant changes;
- weighting by state population levels.

Discussion

- dent debt.
- Important to account for endogeneity of student debt.

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	Dependent	t variable:	$\Delta_3 \ln C_{t+3}$	
OLS	OLS	OLS	IV	IV
-0.939***	-1.384***	-1.812***	-2.972***	-4.347***
(0.236)	(0.274)	(0.267)	(0.527)	(0.729)
-0.124***	-0.121***	-0.117***	-0.117***	-0.092***
(0.015)	(0.015)	(0.018)	(0.013)	(0.018)
	0.463^{**}	0.082	0.527^{***}	0.032
	(0.183)	(0.161)	(0.192)	(0.156)
	0.504^{***}	-0.048	0.856^{***}	0.217
	(0.115)	(0.107)	(0.144)	(0.155)
No	No	Yes	No	Yes
			First-Stag	ge Results
			0.040***	0.032***
			(0.006)	(0.006)
			-0.019***	-0.018***
			(0.005)	(0.004)
			-0.004	0.001
			(0.003)	(0.003)
			-0.015	-0.044
			(0.035)	(0.029)
			0.108^{**}	0.046
			(0.026)	(0.030)
			34.320	24.903
			0.190	0.288
			0.663	0.592

Robustness

• varying the set of instruments to include changes in the unsubsidized Stafford limit or

• First study to directly examine effect of student debt on aggregate consumption. • The results are consistent with binding credit constrains for college graduates with stu-

• Macroeconomic studies of household debt should pay closer attention to student debt.



