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# Do Global Banks Spread Global Imbalances? Asset-Backed Commercial Paper during the Financial Crisis of 2007–09

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## Abstract

The global imbalance explanation of the financial crisis of 2007–09 suggests that demand for riskless assets from countries with current account surpluses created fragility in countries with current account deficits, most notably in the United States. This paper examines this explanation by analyzing the geography of asset-backed commercial paper (ABCP) conduits set up by large commercial banks. The paper shows that banks in surplus countries as well as banks in deficit countries manufactured riskless assets, totaling over \$1.2 trillion, by selling short-term ABCP to risk-averse investors, predominantly U.S. money market funds, and investing the proceeds primarily in long-term U.S. assets. As negative information about U.S. assets became apparent in August 2007, banks in both surplus and deficit countries experienced difficulties in rolling over ABCP and as a result

suffered significant losses. The paper concludes that global banking flows, rather than global imbalances, determined the geography of the financial crisis.

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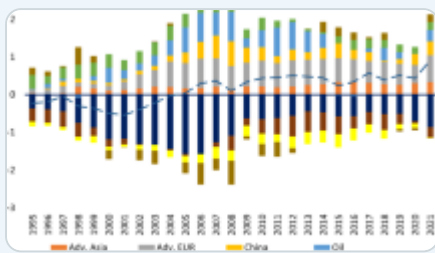
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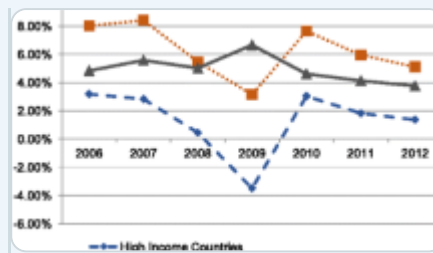
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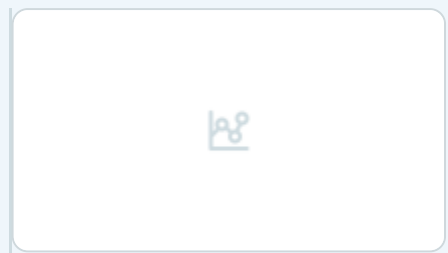
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## Notes

1. [Bernanke \(2009\)](#) and [Portes \(2009\)](#) also argue that it is impossible to

understand the financial crisis fully without appealing to global imbalances and that they are the underlying cause of the crisis. [Jagannathan, Kapoor, and Schaumburg \(2009\)](#) argue that imbalances in labor supply can help to explain the financial crisis.

2. See “BNP Paribas Freezes Funds as Loan Losses Roil Markets,” Bloomberg.com, August 9, 2008.
3. We do not have information on the maturity of Ormond Quay's ABCP but, according to the Federal Reserve, most conduits have ABCP outstanding with a maturity of 30 days or less. The majority of issuance is with a maturity of 1 to 4 days. Regarding outside investors, we have no information of their identity but according to the Federal Reserve's *Flow of Funds*, the main investors in ABCP are U.S. money market funds.
4. As noted in a report by Price Waterhouse on the “Great Accounting Debate: Conduits off or on balance sheet under IFRS,” IFRS does not recognize the usual structure employed by U.S. banks to circumvent consolidation under FIN 46.
5. Under the internal-ratings-based approach, the difference in regulatory capital between off-balance-sheet and on-balance-sheet financing may be even lower, because this approach is based on modeling assumptions which make less distinction between credit and liquidity enhancements. In 2007, however, the regulatory treatment of ABCP conduits under the internal ratings based approach was still under discussion.
6. To validate these findings, we also consult a market-level report issued by [Moody's Investor Service \(2007\)](#). The report provides summary statistics on assets held by credit arbitrage conduits in March 2007. Based on conduits with assets outstanding of \$196 billion or more Moody's find that 53 percent of assets measured by outstanding principal amount are originated in the United

States and that 99 percent of rated assets are rated “Aa” or higher. These results support the findings based on conduit-level data.

7. An alternative measure of the size of the banking sector is bank assets. For our purposes, we prefer bank equity because, as discussed above, countries vary in their financial reporting of ABCP on bank balance sheets.
8. For example, [Keys and others \(2008\)](#) show that loans eligible for securitization had higher default rates relative to comparable loans not eligible for securitization. If outside investors are unable to assess loan quality properly and instead rely on information provided by banks or rating agencies, banks have an incentive to originate low quality loans and sell them at inflated prices.
9. For example, a report commissioned by the Swiss Banking Regulator documents that UBS, one of the world largest banks by assets in 2006, actively sought to keep and purchase assets they had previously securitized.
10. [Stiroh \(2002\)](#) shows, for example, that the component of revenues earned through interest payments by commercial banks in the United States has been dwindling steadily, and it has been replaced by fee-based income and trading revenues. While interest and fee income is relatively stable over the business cycle, trading revenues are highly volatile and in fact much lower in Sharpe ratios. This can be considered evidence supportive of a gradual trend in banking to engage increasingly in short-term, speculative activities, a phenomenon only further facilitated by the repeal of the Glass-Steagall Act (separating commercial and investment banking activities) and enactment of the Gramm-Leach-Bliley Act in 1999 (allowing commercial, investment and insurance activities within a single bank).
11. For example, the Swiss bank regulator issued a detail report on how the universal bank UBS suffered huge losses because of its exposure to the U.S.

housing backed AAA-rated tranches.

12. The term “manufacturing tail risk” is used by [Acharya and others \(2010\)](#) to describe the evolving model of banks and financial firms as regulation restricting risks effectively weakened whereas access to government guarantees remained or in fact strengthened.

## References

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Acharya, Viral V., and Matthew Richardson, 2009, “Causes of the Financial Crisis,” *Critical Review*, Vol. 21, No. 2-3, pp. 195-210.

[Article](#) [Google Scholar](#)

Acharya, Viral V., and Philipp Schnabl, 2009, “How Banks Played the Leverage ‘Game’,” in *Restoring Financial Stability: How to Repair a Failed System*, ed. by Viral V. Acharya and Matthew Richardson (New York, John Wiley & Sons).

[Chapter](#) [Google Scholar](#)

Acharya, Viral V., Schnabl, Philipp, and Gustavo Suarez, 2009, “Securitization without Risk Transfer,” New York University Stern School of Business Working Paper.

Acharya, Viral V., Thomas Cooley, Matthew Richardson, and Ingo Walter, 2010, “Manufacturing Tail Risk: A Perspective on the Financial Crisis of 2007-09,” *Foundations and Trends in Finance*, Vol. 4, No. 4, pp. 247-325.

[Article](#) [Google Scholar](#)

Adrian, Tobias, Adam Ashcraft, Hayley Boesky, and Zoltan Pozsar, 2010, “Shadow Banking,” Federal Reserve Bank of New York Working Paper.

Akerlof, George A., and Paul M. Romer, 1993, "Looting: The Economic Underworld of Bankruptcy for Profit," *Brookings Papers on Economic Activity*, Vol. 2, pp. 1-74.

[Article](#) [Google Scholar](#)

Arteta, Carlos, Mark Carey, Ricardo Correa, and Jason Kotter, 2008, "Revenge of the Steamroller: ABCP as a Window on Risk Choices," Board of Governors of the Federal Reserve Working Paper.

Ashcraft, Adam, and Til Schuermann, 2008, "Understanding the Securitization of the Subprime Mortgage Credit," Federal Reserve Bank of New York Staff Report.

Baba, Naohiko, Robert N. McCauley, and Srichander Ramaswamy, 2009, "U.S. Dollar Money Market Funds and Non-U.S. Banks," in *BIS Quarterly Review* (Basel, Bank for International Settlements, March), Available at [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1516354](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1516354).

[Google Scholar](#)

Bernanke, Ben, 2005, "The Global Saving Glut and the U.S. Current Account Deficit," Sandridge Lecture at the Virginia Association of Economists, Richmond, March 10. Available via the Internet: [www.federalreserve.gov/boarddocs/speeches/2005/200503102/default.htm](http://www.federalreserve.gov/boarddocs/speeches/2005/200503102/default.htm).

Bernanke, Ben, 2009, "Financial Reform to Address Systemic Risk," speech at the Council on Foreign Relations, Washington, (March 10). Available via the Internet: [www.federalreserve.gov/newsevents/speech/bernanke20090310a.htm](http://www.federalreserve.gov/newsevents/speech/bernanke20090310a.htm).

Berndt, Antje, and Anurag Gupta, 2008, "Moral Hazard and Adverse Selection in the Originate-to-Distribute Model of Bank Credit," Carnegie Mellon University Working Paper.

Brunnermeier, Markus, 2009, "Deciphering the Liquidity and Credit Crunch of 2007-08," *Journal of Economic Perspectives*, Vol. 23, No. 1, pp. 77-100.

[Article](#) [Google Scholar](#)

Caballero, R.J., 2009, "The 'Other' Imbalance and the Financial Crisis," Paolo Baffi Lecture, Bank of Italy, Bank of Italy and the Massachusetts Institute of Technology, December 10.

Caballero, R.J., and A. Krishnamurthy, 2009, "Global Imbalances and Financial Fragility," *American Economic Review Papers and Proceedings*, Vol. 99, No. 2, pp. 584-588.

[Article](#) [Google Scholar](#)

Caballero, R.J., E. Farhi, and P.O. Gourinchas, 2008, "An Equilibrium Model of Global Imbalances and Low Interest Rates," *American Economic Review*, Vol. 98, No. 1, pp. 358-393.

[Article](#) [Google Scholar](#)

Coval, Joshua, Jakub W. Jurek, and Erik Stafford, 2009, "Economic Catastrophe Bonds," *American Economic Review*, Vol. 99, No. 3, pp. 628-666.

[Article](#) [Google Scholar](#)

Covitz, Daniel, Nellie Liang, and Gustavo Suarez, 2009, "The Anatomy of a Financial Crisis: The Evolution of Panic-Driven Runs in the ABCP Market," Board of Governors of the Federal Reserve Working Paper.

Dell'Ariccia, Giovanni, Deniz Igan, and Luc Laeven, 2008, "Credit Booms and Lending Standards: Evidence from the Subprime Mortgage Market," IMF Working Paper No. 08/106 (Washington, International Monetary Fund).

Diamond, Douglas, 1984, "Financial Intermediation and Delegated Monitoring," Review of Economic Studies, Vol. 51, No. 3, pp. 393-414.

[Article](#) [Google Scholar](#)

Gorton, Gary, 2008, "The Panic of 2007," Yale University International Center for Finance Working Paper No. 08-24.

Gorton, Gary, 2009, "Slapped in the Face by the Invisible Hand: Banking and the Panic of 2007," Working Paper, Yale University Working Paper (May 9). Available via the Internet: <http://ssrn.com/abstract=1401882>.

Gorton, Gary, and Nicholas S. Souleles, 2005, "Special Purpose Vehicles and Securitization," NBER Working Paper No. 11190 (Cambridge, Massachusetts, National Bureau of Economic Research).

Gorton, Gary, and Richard Rosen, 1995, "Corporate Control, Portfolio Choice, and the Decline of Banking," Journal of Finance, Vol. 50, No. 5, pp. 1377-1420.

[Article](#) [Google Scholar](#)

Jagannathan, Ravi, Mudit Kapoor, and Ernst Schaumburg, 2009, "Why Are We in a Recession? The Financial Crisis is the Symptom Not the Disease!," NBER Working Paper No. 15404 (Cambridge, MA, National Bureau of Economic Research).

Jensen, Michael C., and William H. Meckling, 1976, "Theory of the Firm: Managerial Behavior, Agency Costs and Ownership Structure," Journal of Financial Economics, Vol. 3, No. 4, pp. 305-360.

[Article](#) [Google Scholar](#)



Kacperczyk, Marcin, and Philipp Schnabl, 2009, "When Safe Proved Risky: Commercial Paper during the Financial Crisis of 2007-2009," *Journal of Economic Perspectives*, Vol. 24, No. 1, pp. 29-50.

[Article](#) [Google Scholar](#)

Keeley, Michael, 1990, "Deposit Insurance, Risk, and Market Power in Banking," *American Economic Review*, Vol. 80, No. 5, pp. 1183-1200.

[Google Scholar](#)

Keys, Benjamin, Tanmoy Mukherjee, Amit Seru, and Vikrant Vig, 2008, "Did Securitization Lead to Lax Screening? Evidence from Subprime Loans?," London Business School Working Paper.

Krishnamurthy, Arvind, 2008, "The Financial Meltdown: Data and Diagnoses," (unpublished; Northwestern University).

McGuire, Patrick, and Goetz von Peter, 2009, "The U.S. Dollar Shortage in Global Banking and the International Policy Response," in *BIS Quarterly Review* (Basel, Bank for International Settlements, March),

[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1516354](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1516354).

[Google Scholar](#)

Mendoza, Enrique G., Vincenzo Quadrini, and José Víctor Ríos-Rull, 2008, "Financial Integration, Financial Deepness, and Global Imbalances," NBER Working Paper 12909 (Cambridge, Massachusetts, National Bureau of Economic research).

Mian, Atif, and Amir Sufi, 2009, "The Consequences of Mortgage Credit Expansion: Evidence from the 2007 Mortgage Default Crisis," *Quarterly Journal of Economics*, Vol. 124, No. 4, pp. 1449-1496.

Moody's Investor Service, 2007, "ABCP Market at a Glance: ABCP Credit Arbitrage Snapshot," Special Report (March).

Nadauld, Taylor D., and Shane M. Sherlund, 2008, "The Role of the Securitization Process in the Expansion of Subprime Credit," Ohio State University Working Paper.

Obstfeld, Maurice, 2001, "Perspectives on OECD Capital Market Integration: Implications for U.S. Current Account Adjustment," in Federal Reserve Bank of Kansas City Global Economic Integration: Opportunities and Challenges (Jackson Hole, Wyoming, Federal Bank of Kansas City), pp. 169-208.

[Google Scholar](#)

Obstfeld, Maurice, and Kenneth Rogoff, 2005, "Global Current Account Imbalances and Exchange Rate Adjustments," in Brookings Papers on Economic Activity, Vol. 1, ed. by William Brainard and George Perry (Washington, The Brookings Institution), pp. 67-146.

[Google Scholar](#)

Obstfeld, Maurice, and Rogoff, Kenneth, 2007, "The Unsustainable U.S. Current Account Position Revisited," in G7 Current Account Imbalances: Sustainability and Adjustment, ed. by Richard H. Clarida (Chicago, University of Chicago Press).

[Google Scholar](#)

Obstfeld, Maurice, and Rogoff, Kenneth, 2009, "Global Imbalances and the Financial Crisis: Products of Common Causes," Harvard University Working Paper.

Philippon, Thomas, and Philipp Schnabl, 2009, "Efficient Recapitalization," NBER Working Paper 14929.

Portes, Richard, 2009, "Global Imbalances," in Macroeconomic Stability and Financial Regulation: Key Issues for the G20, ed. by Mathias Dewatripont, Xavier Freixas, and Richard Portes (London, Centre for Economic Policy Research).

[Google Scholar](#)

Rose, Andrew K., and Mark M. Spiegel, 2009a, "Cross-Country Causes and Consequences of the 2008 Crisis: Early Warning," CEPR Discussion Paper 7354 (London, Centre for Economic Policy Research).

Rose, Andrew K., and Spiegel, Mark M., 2009b, "Cross-Country Causes and Consequences of the 2008 Crisis: International Linkages and American Exposure," CEPR Discussion Paper 7476 (London, Centre for Economic Policy Research).

Shin, Hyun Song, 2009, "Securitization and Financial Stability," Economic Journal, Vol. 119, No. 536, pp. 309-332.

[Article](#) [Google Scholar](#)

Stiglitz, Joseph, 1992, "Banks versus Markets as Mechanisms for Allocating and Coordinating Investment," in The Economics of Cooperation, ed. by J. Roumasset and S. Barr (Boulder, Westview Press).

[Google Scholar](#)

Stiroh, Kevin, 2002, "Diversification in Banking: Is Non Interest Income the Answer?" Federal Reserve Bank of New York Working Paper.

# Additional information

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