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Arvind Krishnamurthy

Graduate School of Business Stanford University 655 Knight Way Stanford, CA 94305

Phone: (650) 723-1985

e-mail: a-krishnamurthy@stanford.edu

Academic Position

STANFORD UNIVERSITY

| John S. Osterweis Professor of Finance, Stanford Graduate School of Business | 2015- |
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| Professor of Finance, Stanford Graduate School of Business | 2014-2015 |

NORTHWESTERN UNIVERSITY

| Harold Stuart Professor of Finance, Kellogg School of Management | 2007 - 2014 |
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| Associate Professor of Finance, Kellogg School of Management | 2005 - 2007 |
| Assistant Professor of Finance, Kellogg School of Management | 1998 - 2005 |

Education

B.S., Economics; B.S.E., Electrical Engineering, University of Pennsylvania, 1986 - 1990 Ph.D., Financial Economics, Massachussetts Institute of Technology, 1994 - 1998

Other A liations

Research Associate, National Bureau of Economic Research (NBER), Asset Pricing, Monetary Economics, International Finance and Macroeconomics, Economic Fluctuations and Growth Groups

Professional Activities

American Finance Association, Board Member, 2015-Associate Editor, American Economic Review, 2012 -Associate Editor, Journal of Finance, 2008 - 2012 Associate Editor, American Economic Journal - Macroeconomics, 2009 - 2012

Other Activities

Visitor, London School of Economics, Financial Markets Group, Fall 2005 Visiting Scholar, International Monetary Fund, Research Department, Fall 2002 Fixed Income Trader, RCM-Bermuda, 1993-1994 Fixed Income Trader, AIG Financial Products, 1989-1993

Teaching and Research Interests

Finance, Macroeconomics, International Economics

Courses Taught

- MBA, \Money and Banking," Coverage: What is the relationship between interest rates, banks and the economy? What is the role of the Fed? What happens in nancial crises?
- Stanford PhD, \Macroeconomics and Financial Markets", cotaught with Monika Piazzesi.
- Kellogg MBA, \Money Markets and the Fed", 1998-2014
- Kellogg PhD Seminar, Spring 01 Spring 05: Aggregate Implications of Financial Contracting, cotaught with Adriano Rampini.
- Kellogg PhD Seminar, Spring 07, Spring 08: Asset Pricing Models with Frictions.
- Kellogg PhD Seminar, Spring 09, Spring 10, Spring 11, Spring 12, Fall 13: Corporate Finance Theory
- Kellogg Phd Seminar, Spring 13: Financial Intermediation and Crises

Journal Publications

- \International and Domestic Collateral Constraints in a Model of Emerging Market Crises," Journal of Monetary Economics, 48(3), 513-548, Dec. 2001 (joint with R. Caballero of MIT).
- 2. \The Bond/Old-Bond Spread," Journal of Financial Economics, 66(2), 463-506, 2002.
- 3. \A Dual Liquidity Model for Emerging Markets," *American Economic Review Papers and Proceedings*, 92(2), 33-37, 2002.(joint with R.Caballero)
- 4. \Excessive Dollar Debt: Financial Development and Underinsurance," *Journal of Finance*, 58(2), 867-893, 2003 (joint with R. Caballero of MIT).
- 5. \Collateral Constraints and the Ampli cation Mechanism," *Journal of Economic Theory*, 111(2), 277-292, 2003.

- 6. \Regulating Exclusion from Financial Markets", *Review of Economic Studies*, 71(4), 681-707, 2004 (joint with P. Bond).
- 7. \Smoothing Sudden Stops", *Journal of Economic Theory* 119(1), 104-127, 2004 (joint with R. Caballero of MIT).
- 8. \Exchange Rate Volatility and the Credit Channel in Emerging Markets: A Vertical Perspective", *International Journal of Central Banking*, 1(1), 207 245, 2005 (joint with R. Caballero of MIT).
- 9. \Equilibrium Asset Prices and Investment under Imperfect Corporate Control", *American Economic Review*, 95(3), 659 681, 2005 (joint with G. Gorton of U.Penn and J. Dow of LBS).

This paper won the WFA's 2003 best Corporate Finance paper prize.

- 10. \Bubbles and Capital Flow Volatility: Causes and Risk Management," *Journal of Monetary Economics*, 53(1), 35-53, 2006 (joint with R. Caballero).
- 11. \Limits of Arbitrage: Theory and Evidence from the Mortgage Backed Securities Market," *Journal of Finance*, 62(2), 2007, 557-596, (joint with X. Gabaix of NYU and O. Vigneron).

Nominated for the Smith Breeden Prize for the best paper in the Journal of Finance.

12. \Collective Risk Management in a Flight to Quality Episode," *Journal of Finance*, 63(5), 2008, 2195-2236, (joint with R. Caballero of MIT).

Winner of the Smith Breeden Prize for the best paper in the *Journal of Finance*.

- 13. \Global Imbalances and Financial Fragility," *American Economic Review Papers and Proceedings*, 99(2), 2009, 584-88. (joint with R.Caballero)
- 14. \How Debt Markets have Malfunctioned in the Crisis," *Journal of Economic Perspectives*, 24(1), 2010, 3 28.
- 15. \Ampli cation Mechanisms in Liquidity Crises," *American Economic Journal Macroe-conomics*, 2(3), 2010, 1 30. (Lead Article)
- 16. \Balance Sheet Adjustment in the 2008 Crisis," (joint with InGu Khang of Northwestern and Zhiguo He of Chicago Booth), *IMF Economic Review*, 58, 2010, 118 156.
- 17. \The E ects of Quantitative Easing on Interest Rates" (joint with Annette Vissing-Jorgensen of Northwestern), Brookings Papers on Economic Activity, Fall 2011
- 18. \A Model of Capital and Crises" (joint with Zhiguo He of Chicago Booth), *Review of Economic Studies* 79(2), 2012, 735-777.

- 19. \The Aggregate Demand for Treasury Debt" (joint with Annette Vissing-Jorgensen, *Journal of Political Economy*, 120(2), 2012, 233-267.
- 20. \Intermediary Asset Pricing" (joint with Zhiguo He of Chicago Booth), American Economic Review, 103(2), 2013.
- 21. \Sizing up Repo" (joint with Stefan Nagel of U. Michigan and Dmitry Orlov of Stanford University), *Journal of Finance*, 69(6), 2014, 2381-2417.
- 22. \E cient Credit Policies in a Housing Debt Crisis" (joint with Janice Eberly of Northwestern), *Brookings Papers on Economic Activity*, Fall 2014, 73-136
- 23. \Short-term Debt and Financial Crises: What we can learn from U.S. Treasury Supply" (joint with Annette Vissing-Jorgensen), *Journal of Financial Economics*, 2015.
 - Winner of the Swiss Finance Institute Outstanding Paper Award
- 24. \What Makes US Government Bonds Safe Assets?" (with Zhiguo He and Konstantin Milbradt), American Economic Review Papers and Proceedings, 2016.
- 25. \Measuring Liquidity Mismatch in the Banking Sector" (joint with Jennie Bai of Georgetown and Charles-Henri Weymuller of Banque de France), *Journal of Finance*, 2017
- 26. \ECB Policies involving Government Bond Purchases: Impact and Channels" (joint with Stefan Nagel and Annette Vissing-Jorgensen), Review of Finance 22(1), 2017.
- 27. \A Model of Safe Asset Determination" (joint with Zhiguo He and Konstantin Milbradt), forthcoming, *American Economic Review*
- 28. \Foreign Safe Asset Demand for US Treasurys and the Dollar" (joint with Zhengyang Jiang and Hanno Lustig), American Economic Review Papers and Proceedings, May 2018
- 29. \Intermediary Asset Pricing and the Financial Crisis" (with Zhiguo He), forthcoming, Annual Review of Financial Economics

Working Papers

- 1. \Foreign Safe Asset Demand for US Treasurys and the Dollar Exchange Rate" (joint with Zhengyang Jiang and Hanno Lustig)
- 2. \A Macroeconomic Framework for Quantifying Systemic Risk" (joint with Zhiguo He of Chicago Booth)

Winner of the Swiss Finance Institute Outstanding Paper Award

- 3. \How Credit Cycles across a Financial Crisis" (joint with Tyler Muir)
- 4. \Mortgage Design in an Equilibrium Model of the Housing Market" (joint with Adam M. Guren and Timothy J. McQuade)
- 5. \Financial Meltdown: Data and Diagnoses"
- 6. \Financial System Risk and Flight to Quality" (joint with R. Caballero of MIT)
- 7. \International Liquidity Illusion: On the Risks of Sterilization" (joint with R. Caballero of MIT)

Book Chapters

- \In ation Targeting and Sudden Stops", in Ben S. Bernanke and Michael Woodford, eds., <u>The In ation-Targeting Debate</u>, Chicago: University of Chicago Press, 2004 (joint with R Caballero of MIT).
- 2. \Risk Topography" (joint with Markus Brunnermeier of Princeton and Gary Gorton of Yale), NBER Macro Annual 2011
- 3. \Liquidity Mismatch Measurement" (joint with Markus Brunnermeier of Princeton and Gary Gorton of Yale), NBER Volume on Systemic Risk and Macro Modeling
- 4. \The Ins and Outs of LSAPs" (with Annette Vissing-Jorgensen), Federal Reserve Bank of Kansas City Symposium on Unconventional Monetary Policy, 2013.
- 5. \Passthrough E ciency in the Fed's New Monetary Policy Setting" (with Darrell Du e), Federal Reserve Bank of Kansas City Symposium on Designing Resilient Monetary Policy Frameworks for the Future.
- 6. \Capital Flow Management with Multiple Instruments" (with Viral Acharya), forthcoming, XXI Annual Conference of the Central Bank of Chile, Monetary Policy and Financial Stability: Transmission Mechanisms and Policy Implications

PhD Students

Yaron Leitner (2001), Nisan Langberg (2004), David Lucca (2006), Ioan Olaru (2007), Josh Davis (2008), Zhiguo He (2008), David Dicks (2008), Ioan Mirciov (2010), Andrew Nowobilski (2012), Luis Bryce (2012), Tyler Muir (2013), Taejin Kim (2013), Vishal Mangla (2013), Andrea Lu (2014), Zhuo Chen (2014), Egemen Eren (2016), Chaojun Wang (2017), Yiming Ma (2018)

Outside Activities

Compensated: Consultant to Federal Reserve Board, Federal Reserve Bank of New York, Federal Reserve Bank of Chicago, Federal Reserve Bank of San Francisco, European Central Bank, and National Bank of Belgium.

Non-compensated: Speaker at U.S. Dept of Treasury, Moodys-KMV

Commissioned and Compensated Research: Global Markets Institute at Goldman Sachs, Brookings Institution, Riksbank, Central Bank of Chile

Other: Research Grant from Sloan Foundation. Associate Editor at American Economic Review. Past Associate Editor at Journal of Finance and American Economic Journals Macroeconomics.