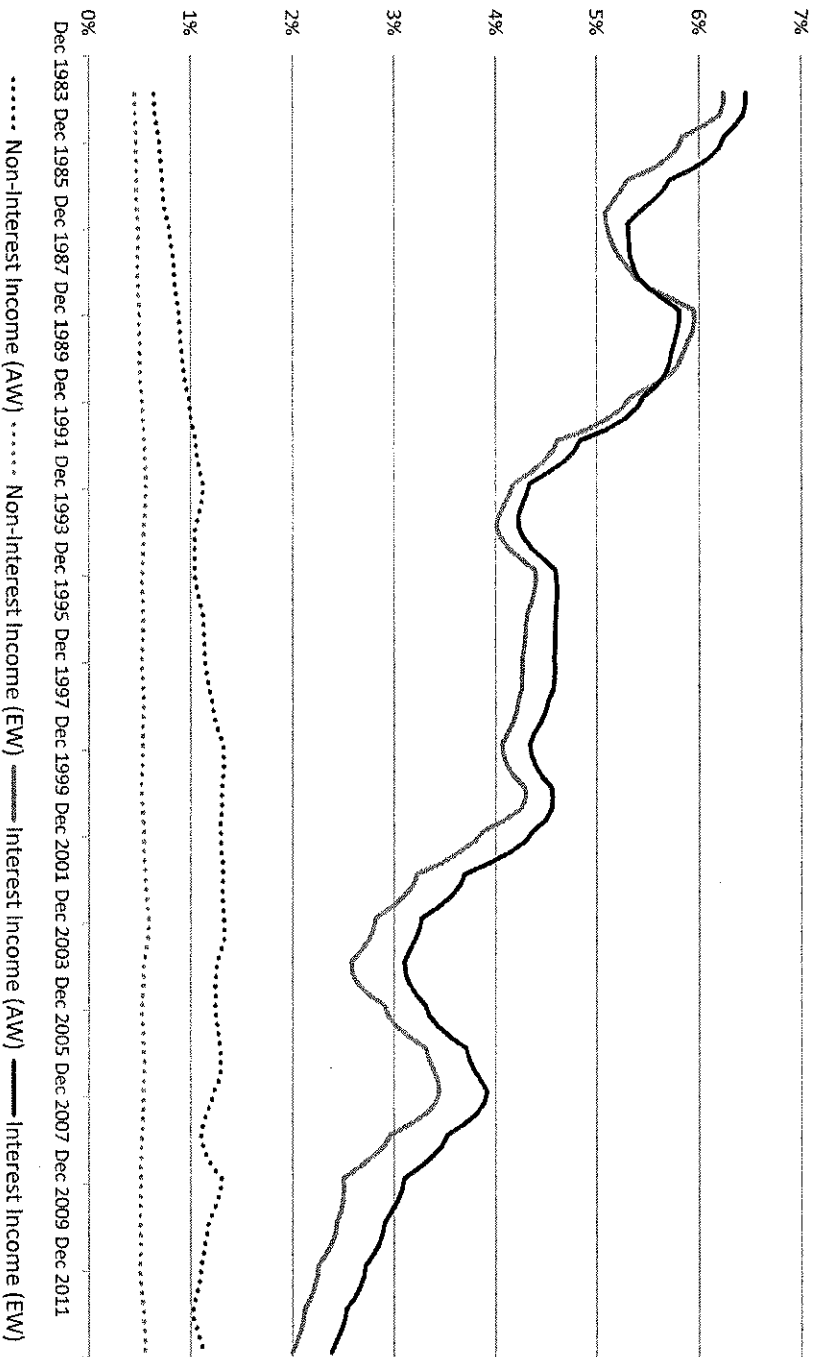
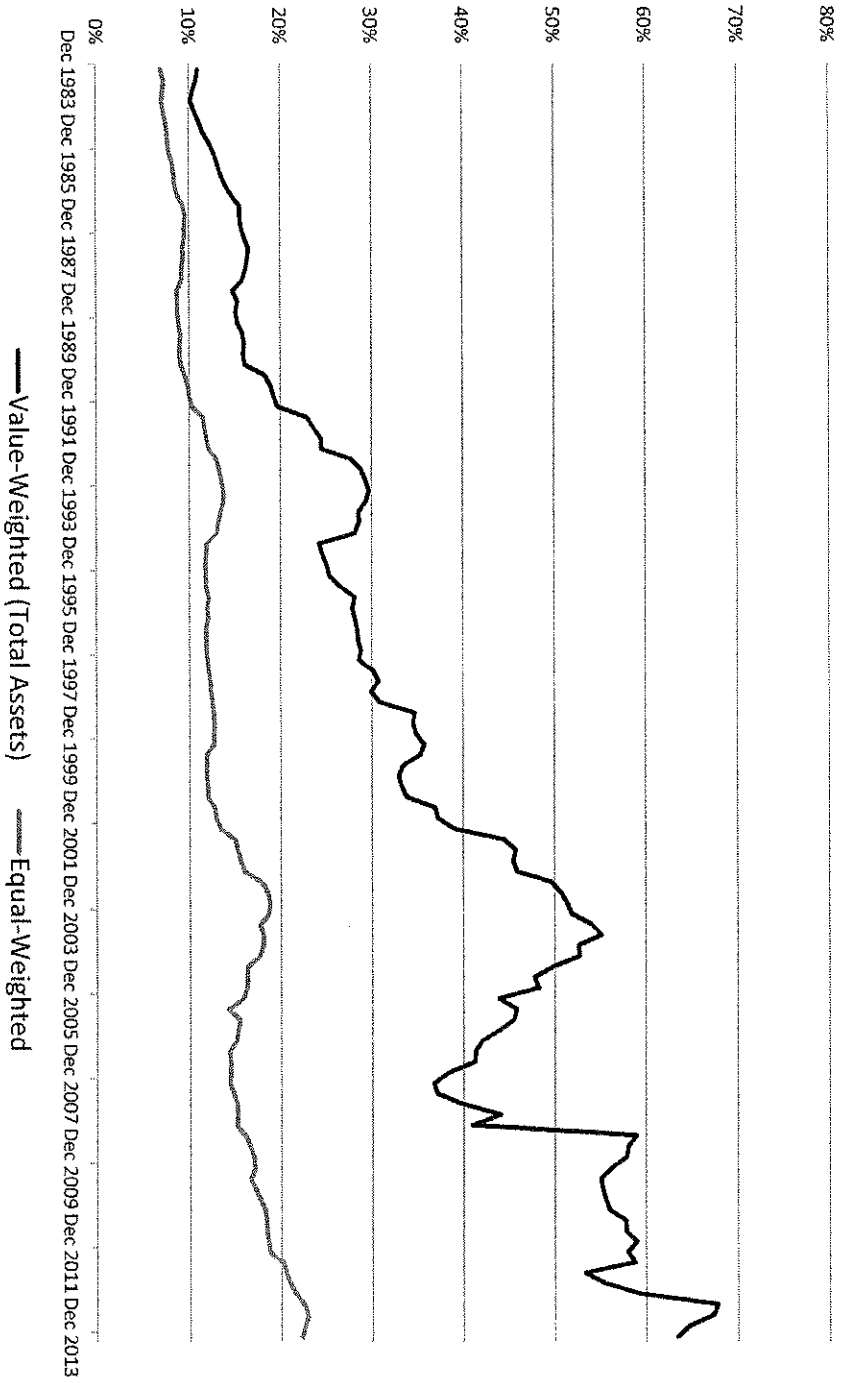


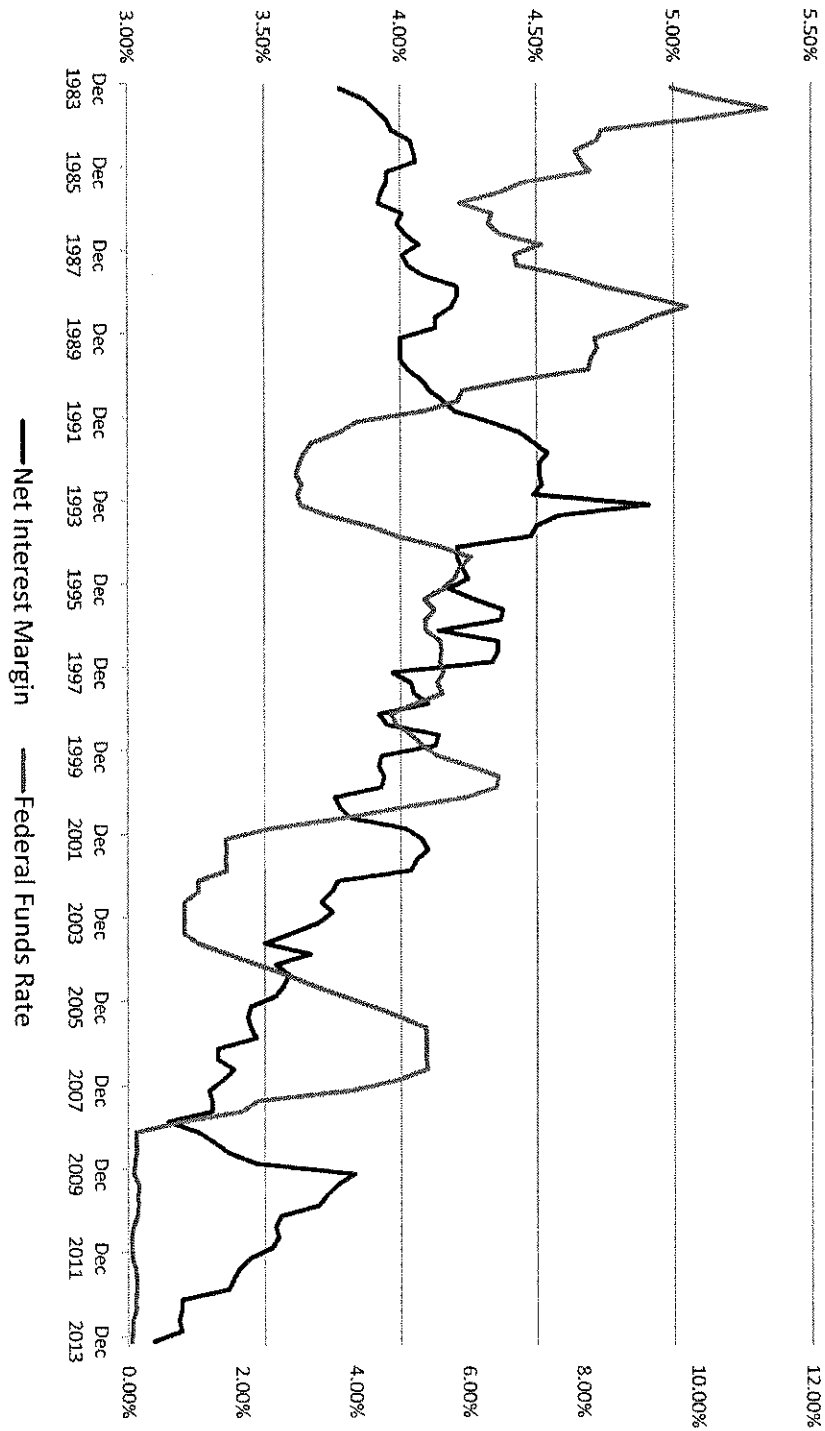
Evolution of non-interest income over total assets and interest income over total assets



Evolution of non-interest to interest income



Evolution of the net interest margin of all US banks from 1984 to 2013



Descriptive statistics for bank size groups

<i>Panel A: ROE</i>		Mean	Median	<i>Panel C: Volat(ROE)</i>		Mean	Median
Small (TA < 100m)		5.4422	5.5204	Small (TA < 100m)		4.6821	3.8139
Medium (100m < TA < 1bn)		6.1247	5.7626	Medium (100m < TA < 1bn)		4.3027	3.7801
Large (1bn < TA < 10bn)		5.8952	5.5894	Large (1bn < TA < 10bn)		4.6932	4.0318
Very large (10bn < TA)		7.1533	6.4987	Very large (10bn < TA)		5.2406	4.6574
<i>Panel B: Non-Interest to Interest Income</i>		Mean	Median	<i>Panel D: Z-score</i>		Mean	Median
Small (TA < 100m)		0.1750	0.1387	Small (TA < 100m)		30.2984	28.4695
Medium (100m < TA < 1bn)		0.2104	0.1634	Medium (100m < TA < 1bn)		31.1927	28.7533
Large (1bn < TA < 10bn)		0.3339	0.2423	Large (1bn < TA < 10bn)		30.8265	27.6745
Very large (10bn < TA)		0.6292	0.4354	Very large (10bn < TA)		28.6570	25.3463

Fixed effects regressions of ROE on non-interest to interest income and control variables

Dependent variable: ROE	1984-2013		1984-2001		2002-2013	
	(1)	(2)	(3)	(4)	(5)	(6)
Non-Interest to Interest Income	1.533 *** (9.289)	1.622 *** (9.839)	0.608 ** (2.416)	0.805 *** (3.209)	3.143 *** (13.376)	3.156 *** (13.571)
In(Total Assets)	1.750 *** (28.821)	1.765 *** (29.145)	1.785 *** (20.254)	1.764 *** (20.189)	2.862 *** (22.302)	2.957 *** (22.916)
Deposits / Loans	-0.541 *** (-12.955)	-0.534 *** (-12.689)	0.047 (0.951)	0.071 (1.445)	-1.497 *** (-16.801)	-1.536 *** (-17.141)
Brokered Deposits / Total Assets	-4.242 *** (-5.058)	-3.024 *** (-3.462)	-5.158 *** (-3.075)	-5.545 *** (-3.283)	-6.931 *** (-6.779)	-5.664 *** (-5.266)
Loan Portfolio Concentration	-1.363 *** (-5.912)	-1.184 *** (-5.116)	-0.778 ** (-2.421)	-0.703 ** (-2.188)	-1.011 ** (-2.466)	-0.622 ** (-1.512)
Non-Interest to Interest Income x Crisis		-0.983 *** (-4.269)		-2.245 *** (-5.224)		-0.297 *** (-1.149)
In(Total Assets) x Crisis		-0.067 * (-1.935)		0.310 *** (5.990)		-0.266 ** (-6.288)
Deposits / Loans x Crisis		-0.114 ** (-2.389)		-0.195 *** (-3.294)		0.293 ** (3.775)
Brokered Deposits / Total Assets x Crisis		-5.037 *** (-4.903)		3.819 (1.140)		-3.961 ** (-3.758)
Loan Portfolio Concentration x Crisis		-1.568 *** (-7.128)		-0.343 (-0.934)		-2.039 ** (-7.801)
Add. bank-level controls	Yes	Yes	Yes	Yes	Yes	Yes
Obs	971,432	971,432	609,462	609,462	361,970	361,970
Banks	12,296	12,296	10,576	10,576	10,149	10,149
R-Squared (within)	0.244	0.244	0.218	0.218	0.307	0.309

Cross-sectional regressions of ROE on non-interest to interest income and control variables

Dependent variable: ROE	1984-2013		1984-2001		2002-2013	
	(1)	(2)	(2)	(3)	(3)	(3)
Non-Interest Income Share	2.914 ** (1.978)	-1.241 (-0.784)	6.292 *** (5.990)			
Log Assets	0.771 ***	0.954 ***	0.503 ***			
Equity / Assets	(9.384) 7.566 ***	(11.401) 17.071 ***	(8.118) -1.924			
Growth in Assets	(3.122) -11.698 ***	(5.694) -4.360 *	(-1.398) -37.378 ***			
Fiduciary Income Share	(-3.702) 1.703 **	(-1.787) -0.132	(-12.749) -0.683			
Trading Income Share	(2.004) -54.063 ***	(-0.161) -63.878 ***	(-0.974) -62.654 ***			
Fee & Other Non-Interest Income Share	(-4.144) 0.398	(-4.943) -1.297 ***	(-3.513) -0.467			
Bank Years	(0.693) 0.068 ***	(-2.601) 0.109 ***	(-1.154) 0.076 ***			
Multi	(20.791) 2.877 ***	(14.782) 1.700 ***	(15.752) 1.982 ***			
Constant	(15.364) -12.306 ***	(9.195) -13.197 ***	(12.956) -5.354 ***			
	(-10.662)	(-10.147)	(-6.711)			
Obs	14,025	12,061	9,925			
R-Squared	0.083	0.084	0.106			

Fixed effects regressions of ROE on non-interest to interest income and controls – bank size sub-samples

Bank size group:	Small	Medium	Large	Very Large
	(1)	(2)	(3)	(4)
Non-Interest to Interest Income	0.703 ** (2.061)	2.268 *** (10.730)	2.424 *** (6.070)	1.419 *** (2.966)
Non-Interest to Interest Income x Crisis	-1.362 *** (-2.694)	-0.788 ** (-2.390)	0.310 (0.769)	0.300 (0.451)
ln(Total Assets)	2.789 *** (20.816)	1.523 *** (15.226)	0.370 (1.481)	-0.273 (-0.760)
ln(Total Assets) x Crisis	-0.157 * (-1.774)	0.376 *** (4.732)	-0.905 *** (-4.109)	-0.630 ** (-2.090)
Deposits / Loans	-0.049 (-0.949)	-0.815 *** (-10.598)	-0.495 ** (-2.206)	-0.967 ** (-2.237)
Deposits / Loans x Crisis	-0.150 ** (-2.563)	0.020 (0.261)	-0.916 *** (-3.474)	-0.633 (-1.285)
Brokered Deposits / Total Assets	-5.506 *** (-2.686)	-2.110 ** (-1.996)	-7.953 *** (-3.491)	-10.863 ** (-2.091)
Brokered Deposits / Total Assets x Crisis	1.128 (0.303)	-5.134 *** (-4.143)	-0.957 (-0.398)	0.576 (0.105)
Loan Portfolio Concentration	0.088 (0.217)	-0.291 (-0.912)	-0.676 (-0.784)	3.882 * (1.872)
Loan Portfolio Concentration x Crisis	-0.721 * (-1.719)	-2.425 *** (-8.899)	-1.471 ** (-1.998)	-4.925 * (-1.659)
Additional bank-level controls (incl. interactions)	Yes	Yes	Yes	Yes
Obs	434,179	454,152	71,078	12,023
Banks	9,917	10,245	2,702	378
R-Squared (within)	0.170	0.339	0.374	0.414

Fixed effects regressions of bank risk measures on non-interest to interest income and control variables – Bank size sub-samples

Panel A: Dependent variable: Volat(ROE)

Bank size group	Small (1)	Medium (2)	Large (3)	Very Large (4)
Non-Interest to Interest Income	2.831 *** (15.143)	0.816 *** (7.358)	0.314 (1.546)	-0.209 (-0.570)
Non-Interest to Interest Income x Crisis	1.364 *** (5.660)	0.117 (0.971)	0.191 (0.839)	0.407 (1.221)
Obs	410,323	439,045	69,000	11,682
Banks	8,423	9,726	2,535	352
R-Squared (within)	0.101	0.111	0.199	0.218

Panel B: Dependent variable: Sharpe Ratio

Bank size group	Small (1)	Medium (2)	Large (3)	Very Large (4)
Non-Interest to Interest Income	-0.213 *** (-4.448)	0.146 *** (5.274)	0.211 *** (3.894)	0.191 *** (2.807)
Non-Interest to Interest Income x Crisis	-0.265 *** (-4.163)	0.005 (0.134)	0.116 ** (2.278)	0.214 * (1.786)
Obs	410,316	439,034	68,961	11,682
Banks	8,422	9,726	2,534	352
R-Squared (within)	0.394	0.525	0.550	0.533

Fixed effects regressions of bank risk measures on non-interest to interest income and control variables – Bank size sub-samples (continued)

Panel C: Dependent variable: Z-score

Bank size group	Small (1)	Medium (2)	Large (3)	Very Large (4)
Non-Interest to Interest Income	-7.142 *** (-11.797)	-2.539 *** (-5.317)	-0.557 (-0.687)	2.284 (1.399)
Non-Interest to Interest Income x Crisis	-1.457 (-1.479)	0.176 (0.259)	0.815 (0.721)	2.032 (1.377)
Obs	410,232	438,926	68,932	11,682
Banks	8,423	9,724	2,534	352
R-Squared (within)	0.133	0.066	0.115	0.169

Fixed effects regressions of MES and ΔCoVaR on non-interest to interest income – BHC sample

		Panel A: Dependent variable: MES			
		(1)	(2)	(3)	(4)
Non-interest to interest income		0.038 (0.383)	0.056 (0.734)	0.034 (0.348)	0.088 (1.184)
Non-interest to interest income x Crisis				0.038 (0.594)	-0.234 ** (-2.043)
BHC-level control variables		No	Yes	No	Yes
Obs		2,417	2,167	2,417	2,167
BHCs		65	62	65	62
R-Squared (within)		0.646	0.713	0.646	0.732
Panel B: Dependent variable: ΔCoVaR					
Sample period:		1987-2013	1987-2001	2002-2013	2001-2013
		(1)	(2)	(3)	(4)
Non-interest to interest income		0.031 ** (2.234)	0.128 *** (5.036)	-0.031 ** (-2.395)	-0.032 ** (-2.399)
BHC-level control variables		No	No	No	Yes
Obs		33,832	16,789	17,043	17,772
BHCs		782	583	616	625
R-Squared (within)		0.517	0.492	0.547	0.544

Fixed effects regressions of MES and ΔCoVaR on non-interest to interest income – BHC sample (continued)

Panel C: Dependent variable: ΔCoVaR – Including interaction terms				
Sample period:	1987-2013	1987-2001	2002-2013	2001-2013
	(1)	(2)	(3)	(4)
Non-interest to interest income	0.022 (1.604)	0.128 *** (5.026)	-0.053 *** (-3.973)	-0.039 * (-3.561)
Non-interest to interest income x Crisis	0.131 *** (5.434)	-0.019 (-1.229)	0.199 *** (5.831)	0.029 (0.976)
BHC-level control variables	No	No	No	Yes
Obs	33,832	16,789	17,043	17,772
BHCs	782	583	616	625
R-Squared (within)	0.522	0.492	0.562	0.618