2013 Update on the U.S. Earnings, Income, and Wealth Distributional Facts: A View from Macroeconomics

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Motivation

- Debate on policy responses to income and wealth inequality
- Provide a description of inequality in the U.S.
- Earnings, income, and wealth data from the Survey of Consumer Finances
- Focus on 2013 contrast to trends over past 25 years

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Survey of Consumer Finances

- Starting in 1989 triennial representative household survey
- Oversampling of rich households based on tax returns
- Repeated cross-sections with household-level information

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Variables

• **Income:** income from all sources (previous calender year)

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Variables

- Income: income from all sources (previous calender year)
- Earnings: income from labor (incl. part of business income)

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Variables

- Income: income from all sources (previous calender year)
- Earnings: income from labor (incl. part of business income)
- Wealth: consolidated household portfolio (assets net of debt)

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A quick reminder: U.S. inequality in 2013

- Wealth most unequally distributed
- Distributions highly right-skewed
- Earnings, income, and wealth concentration "at the top"

	Earnings	Income	Wealth
Coefficient of variation	3.69	4.19	6.81
Variance of logs	1.50	0.99	4.80
Gini indexes	0.67	0.58	0.85
Location of mean	70	74	83
99-50 ratio	17.46	14.78	96.81
90-50 ratio	4.15	3.33	11.56
Mean-to-median ratio	1.96	1.85	6.49
50-30 ratio	3.21	1.64	5.50

How do we measure inequality?

- Debate about rising inequality about top 1 % (or smaller group)
- One point on Lorenz curve uninformative about bottom 99 %
- Gini coefficient describes inequality with focus on the middle
- Coefficient of variation describes inequality with focus on tails



Income inequality trends 1989 - 2013

- Gini coefficient of income increased (0.55 \nearrow 0.58)
 - \Longrightarrow Disappearance of the middle class



Income inequality trends 1989 - 2013

- Gini coefficient of income increased (0.55 ∧ 0.58)
 ⇒ Disappearance of the middle class
- Coefficient of variation of income decreased (4.61 \searrow 4.19) \implies Catching-up of the poor



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Sources of inequality

• Policy implications of rising inequality widely discussed

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• Sources of inequality key information for policy recommendation

Sources of inequality

- Policy implications of rising inequality widely discussed
- Sources of inequality key information for policy recommendation
- SCF data has information about who the wealthy are

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Who are the wealthiest (top 1 % of wealth)?

• They are older

80 % are over 50 years (50 % in population)



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60 % are self-employed (10 % in population)

• Taxing wealth? Tax on the older, better educated, and entrepreneurial

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• More than 50 % of wealth is business and housing wealth

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- More than 50 % of wealth is business and housing wealth
- Wealth and (capital) income only weakly correlated

	Net	Financial	Wealth net
	Wealth	Wealth	Houses
Capital income	0.32	0.37	0.31
excl. cap. gains	0.50	0.56	0.50

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- 2 out of 5 of wealth top 1 % are income top 1 %
- Capital income likely accrues as retained earnings

Wealth inequality

• Over 70 % of assets are business equity, houses, and retirement accounts

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Wealth inequality

- Over 70 % of assets are business equity, houses, and retirement accounts
- Three asset classes account for 70 % of inequality (Gini coefficient)

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Wealth inequality

- Over 70 % of assets are business equity, houses, and retirement accounts
- Three asset classes account for 70 % of inequality (Gini coefficient)
- Stocks, bonds, and mutual funds account for less than 20 % of inequality

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Household portfolios

• Household portfolios differ along the wealth distribution



Household portfolios

- Household portfolios differ along the wealth distribution
- Low-wealth households highly leveraged in housing

 \Longrightarrow high house price sensitivity





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Household portfolios

- Household portfolios differ along the wealth distribution
- Low-wealth households highly leveraged in housing
 high house price sensitivity
- High-wealth households largest share in business wealth
 high sensitivity to equity prices



• 80% of wealth is **NOT** inherited

Wealth			Expected	Inherited	Exp. Inh.
Group	Wealth	Inheritance	Inheritance	Wealth Share	Wealth Share
All	528.2	109.7	63.9	20.8%	12.1%
80-100%	2,298.1	442.0	163.0	19.2%	7.1%
90-95%	1,278.2	227.5	87.8	17.8%	6.9%
95-99%	3,614.7	918.0	298.6	25.4%	8.3%
99-99.5%	9,468.0	1,757.7	760.1	18.6%	8.0%
99.5-99.9%	17,623.9	1,330.3	266.5	7.5%	1.5%
Top 0.1%	69,575.9	6,381.3	828.3	9.2%	1.2%
Thousands of	of 2013 Do	llars, excludin	g deceased s	pouses	
inheritance a	at present v	/alue (3 % p.	a.), expectati	ons at face valu	e

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99-99.5%	9,468.0	1,757.7	760.1	18.6%	8.0%
99.5-99.9%	17,623.9	1,330.3	266.5	7.5%	1.5%
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- 80% of wealth is NOT inherited
- Even not for the wealthy
- Inheritance highly concentrated

Inheritance	Top 25%	Top 10%	Top 5%	Top 1%	Top 0.5%	Top 0.1%	Top 0.01%
Received	0	128	352	1,589	2,879	13,030	41,152
Expected	0	50	265	1,260	2,000	6,000	13,000

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 Potential transmission through human capital (education, social skills, business contacts, ...)

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- Even not for the wealthy
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- Potential transmission through human capital (education, social skills, business contacts, ...)
- 6 out of the Top 10 of Forbes richest Americans entrepreneurs who build wealth on their own

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• Changes over time

- Changes over time
- Effects of the Great Recession

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- Age, education, employment, and marital status partition

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• Joint distributions of earnings, income, and wealth

- Changes over time
- Effects of the Great Recession
- Age, education, employment, and marital status partition

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- · Joint distributions of earnings, income, and wealth
- Student loans and asset prices
- any many, many more things ...

- 1. Debate about top 1% ignores bottom 99 %
 - Disappearance of the middle class, catch up of the bottom

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- 5. 80 % of wealth is NOT inherited

Take a look yourself

• All results can be founded and downloaded at

https://sites.google.com/site/kuhnecon/home/us-inequality

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Additonal slides

2013 Update on the U.S. Earnings, Income, and Wealth Distributional Facts: A View from Macroeconomics

Royal Economic Society Meeting

March, 2016

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Inequality trends

	Coeffi	cients of	Variation	Gini Indixes				
	Earn.	Income	Wealth	Earn.	Income	Wealth		
1989	4.47	4.61	5.51	.61	.55	.79		
1992	4.19	3.84	6.11	.63	.57	.79		
1995	3.53	4.63	6.28	.62	.55	.79		
1998	2.86	3.56	6.47	.61	.55	.80		
2001	2.88	3.63	5.25	.62	.57	.81		
2004	3.00	3.11	5.68	.62	.54	.81		
2007	3.60	4.32	6.01	.64	.57	.82		
2010	3.26	3.45	6.35	.65	.55	.85		
2013	3.69	4.19	6.81	.67	.58	.85		

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Who are the wealthiest in 2013?

	\leq 30	31-40	41-50	51-60	≥ 61	DR	HS	SC	CO	PG	WKR	SE	RET	NW	MAR	KIDS
							Al	l Hous	eholds							
	13.5	17.2	18.6	19.9	30.7	11.0	31.3	18.9	26.3	12.5	56.9	9.7	20.8	12.6	57.2	57.0
	Top 10 Percent															
Earnings	1.9	21.3	29.7	30.4	16.7	0.6	10.4	9.3	41.7	38.1	71.4	22.4	2.8	3.4	91.8	39.6
Income	1.8	15.7	24.9	28.5	29.1	0.5	9.2	9.1	39.4	41.8	62.1	24.6	9.5	3.7	90.7	47.7
Wealth	0.4	6.0	16.5	28.9	48.2	0.9	9.2	12.9	37.4	39.6	41.0	31.5	25.0	2.5	83.0	64.5
							То	op 1 P	ercent							
Earnings	0.5	9.1	31.1	34.0	25.4	0.0	2.8	5.6	38.4	53.2	45.0	48.8	5.9	0.2	84.6	38.3
Income	0.0	8.7	28.7	30.6	32.0	0.0	3.1	8.9	35.9	52.1	40.5	49.0	10.2	0.2	84.0	45.3
Wealth	0.8	4.2	11.6	25.3	58.1	0.3	7.4	12.4	33.2	46.7	17.4	59.5	20.0	3.1	88.3	67.3
							To	o 0.1 F	Percen	t						
Earnings	0.0	9.2	19.7	46.5	24.6	0.1	4.0	4.2	32.3	59.3	29.4	66.4	4.2	0.0	95.6	51.4
Income	0.0	8.3	23.0	34.4	34.3	0.3	2.8	4.7	40.6	51.7	15.7	72.5	11.8	0.0	95.8	45.3
Wealth	0.0	4.5	13.5	26.9	55.1	0.5	1.4	7.8	40.2	50.1	19.3	60.1	20.6	0.0	89.1	56.6

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Sources of Wealth Inequality, 2013

Wealth	Share	Coeff.	Corr.	Conc.	Contrib.
Component	S_k	G_k	R_k	C_k	I_k/G
Liquid assets	0.06	0.87	0.89	0.77	0.06
Mutual funds	0.07	0.98	0.95	0.94	0.08
Stocks	0.07	0.98	0.95	0.93	0.08
Bonds	0.02	1.00	0.97	0.97	0.02
Ret. accts.	0.19	0.87	0.90	0.78	0.17
Houses	0.32	0.68	0.83	0.56	0.21
Vehicles	0.04	0.54	0.57	0.31	0.01
Business	0.21	0.99	0.96	0.95	0.23
Mtge + HELOCs	-0.13	-0.77	-0.43	0.33	-0.05
Installment loans	-0.02	-0.80	0.27	-0.22	0.01
TOTAL	1.0	0.85	1.0	0.85	0.85

 S_k : wealth share

 R_k : correlation between component and wealth

 G_k : Gini of wealth component

 $I_k = R_k \times G_k \times S_k$: contribution to Gini

Portfolio shares of the Wealth Partition, 2013

	0-1	1-5	5-10	1st	2nd	3th	4th	5th	90-95	95-99	99-100	all
Liquid Assets	2.8	4.8	22.9	8.1	17.0	10.2	7.4	5.9	6.5	7.0	4.6	6.4
CDs	0.0	0.6	1.7	0.5	0.6	1.0	1.6	0.9	1.5	0.7	0.5	0.9
Mutual Funds	0.0	0.4	1.1	0.3	0.4	0.8	1.6	7.9	5.2	7.6	10.5	7.0
Stocks	0.0	0.9	2.0	0.7	1.5	1.1	1.9	8.2	5.6	9.4	9.7	7.4
Bonds	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.8	0.5	2.0	2.5	1.5
Saving Bonds	0.0	0.1	0.6	0.2	0.3	0.4	0.2	0.1	0.2	0.1	0.0	0.1
Other mgd assets	0.0	0.0	2.1	0.3	0.3	0.7	1.9	3.9	2.9	3.3	5.1	3.6
Cash value life ins.	0.1	1.3	2.2	1.1	4.9	1.9	1.7	1.2	1.4	1.0	1.1	1.3
Other fin. assets	0.1	0.3	1.2	0.6	2.1	0.8	0.8	0.8	0.9	0.9	0.7	0.8
Ret. accts.	5.2	9.0	31.8	12.0	21.5	19.6	24.3	17.8	29.0	19.6	9.4	18.7
Houses	48.8	122.9	308.7	140.3	207.1	120.5	74.8	21.7	33.8	21.5	9.0	32.4
Vehicles	7.7	29.1	102.8	40.3	73.1	20.3	8.7	1.7	2.5	1.4	0.6	3.7
Other res. RE	1.4	11.8	33.0	10.0	5.5	6.7	6.8	8.0	9.0	8.6	7.3	7.9
Nonres. RE	0.0	0.1	0.6	0.3	1.3	1.7	2.0	3.9	4.0	4.3	3.7	3.6
Business	5.2	2.3	3.9	4.3	2.2	2.6	4.0	23.3	9.0	19.5	36.9	20.8
Other nonfin. assets	0.4	0.4	2.1	0.7	1.5	1.1	0.7	0.9	0.9	0.6	1.2	0.9
Mtge + HELOCs	-66.5	-145.9	-333.1	-161.1	-178.4	-71.4	-30.7	-6.0	-10.0	-5.6	-1.5	-12.7
Res. debt	-0.4	-13.9	-36.0	-10.7	-3.6	-3.9	-2.4	-1.3	-1.9	-1.4	-0.8	-1.6
Other LOC	0.0	-0.4	-5.2	-0.8	-1.1	-0.2	-0.1	-0.1	0.0	-0.1	-0.2	-0.1
Credit Card	-7.4	-7.9	-32.8	-13.0	-9.3	-2.4	-1.1	-0.1	-0.2	0.0	0.0	-0.4
Installment	-97.3	-108.4	-204.4	-129.7	-45.7	-10.9	-3.9	-0.4	-0.6	-0.2	-0.1	-2.3
Other Debt	-0.2	-7.5	-5.1	-4.4	-1.3	-0.6	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2

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Decomposing inequality

	Whole			Without			Without			Without			Only Ages		
	Sample			Top 1%			Top 10%			Bottom 20%			20-65		
	E	1	W	E	1	W	E	1	W	E	1	W	E	1	W
Coefficient of variation	3.69	4.19	6.81	1.31	1.11	2.48	1.00	0.70	2.38	3.27	3.84	6.02	3.29	4.06	7.31
Variance of logs	1.50	0.99	4.80	1.38	0.89	4.55	1.16	0.66	3.77	1.50	0.61	2.98	1.27	0.99	4.87
Gini indixes	0.67	0.58	0.85	0.61	0.49	0.79	0.55	0.39	0.71	0.58	0.52	0.80	0.60	0.56	0.87
Location of mean	70	74	83	65	67	77	58	60	67	71	76	83	70	73	83
99-50 ratio	17.46	14.78	96.81	10.32	9.15	55.25	4.76	3.65	14.48	14.16	13.25	59.84	13.03	13.6	129.40
90-50 ratio	1.96	1.85	6.49	3.97	3.28	10.72	3.38	2.56	7.70	3.26	2.99	7.74	3.27	3.18	14.84
Mean-to-median ratio	4.15	3.33	11.56	1.61	1.53	4.34	1.33	1.24	2.50	1.71	1.75	4.5	1.68	1.79	8.14
50-30 ratio	3.21	1.64	5.50	3.33	1.62	5.53	4.43	1.62	5.54	1.84	1.47	2.74	1.93	1.66	5.50

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Income concentration "at the top"

- Income shares of top 10 %, 1 %, 0.1%
- Income concentration in SCF data relative to tax returns



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SCF labor income comparison



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SCF wealth comparison



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