



Victorian Public Sector Commission & the Australia and New Zealand School of Government present:

Don't worry, be happy: what economics can (and cannot) tell us about well being'

Moderator

Speaker

Professor Gary Banks, AODean and CEO
ANZSOG

Professor Justin WolfersUniversity of Michigan

Please switch off all devices for the duration of the seminar

Economics and Happiness

Justin Wolfers

University of Michigan and Sydney University (visiting)
Plus Brookings, CEPR, CESifo, IZA, NBER and PIIE)
Drawing on joint research with Betsey Stevenson

ANZSOG seminar series – Melbourne, February 18 2016.

Measuring Subjective Well-being

Survey questions

Satisfaction ladder:

"Here is a ladder representing the 'ladder of life'. Let's suppose the top of the ladder represents the best possible life for you, and the bottom, the worse possible life for you. On which step of the ladder do you feel you personally stand at the present time? [0-10 steps]."

Life satisfaction

"All things considered, how satisfied are you with your life as a whole these days?" [1=Dissatisfied - 10=Satisfied]

Happiness

"Taken all together, how would you say things are these days—would you say that you are: very happy, pretty happy, or not too happy?"

Daily affect

Did you experience the following feelings during a lot of the day yesterday? How about: a)
 Happiness; b) Enjoyment; c) Anger; d) Sadness; e) Stress; f) Worry

Survey responses are related to other measures

- Physical evidence
 - Smiling, laughing, heart rate measures, sociability, and electrical activity in the brain.
- Subjective assessments
 - Evaluations by friends, self-reported health, sleep quality, and personality.
- Objective circumstances
 - Life circumstances (unemployment, marriage, divorce)

Types of comparisons	1970s view "Easterlin Paradox"
Within country: Rich v. poor people in a country	Big effects
Between country : Rich v. poor countries	Statistically insignificant effects interpreted to be zero
National time series: Country when rich v. poor	No effects (Japan, USA, Europe)
International panel: Countries with fast v. slow growth	Largely unexamined
Implications	Relative income determines well- being
Policy conclusions	De-emphasize growth

Types of comparisons	1970s view "Easterlin Paradox"	1990s view "Satiation"
Within country: Rich v. poor people in a country	Big effects	Big effects for income <\$15k - But not for the rich
Between country: Rich v. poor countries	Statistically insignificant effects interpreted to be zero	GDP<\$15k: Strong effects GDP>\$15k: No effects
National time series: Country when rich v. poor	No effects (Japan, USA, Europe)	No effects (Available data are for rich countries)
International panel: Countries with fast v. slow growth	Largely unexamined	Largely unexamined
Implications	Relative income determines well- being	Relative income determines well- being once "basic needs" are met"
Policy conclusions	De-emphasize growth	Rich countries should de-emphasize growth and raise income tax

Types of comparisons	1970s view "Easterlin Paradox"	1990s view "Satiation"	New view: Stevenson-Wolfers (2008)
Within country: Rich v. poor people in a country	Big effects	Big effects for income <\$15k - But not for the rich	Strong effects: $\beta^{\text{within}} \approx 0.35$
Between country: Rich v. poor countries	Statistically insignificant effects interpreted to be zero	GDP<\$15k: Strong effects GDP>\$15k: No effects	Strong effects $\beta^{between} \approx 0.35$
National time series: Country when rich v. poor	No effects (Japan, USA, Europe)	No effects (Available data are for rich countries)	Strong effects β ^{time series} ≈0.35
International panel: Countries with fast v. slow growth	Largely unexamined	Largely unexamined	Strong effects β ^{panel} ≈0.35
Implications	Relative income determines well- being	Relative income determines well- being once "basic needs" are met"	There's no paradox (and never was)
Policy conclusions	De-emphasize growth	Rich countries should de-emphasize growth and raise income tax	

Within-Country Comparisons

"Taken all together, how would you say things are these days?"

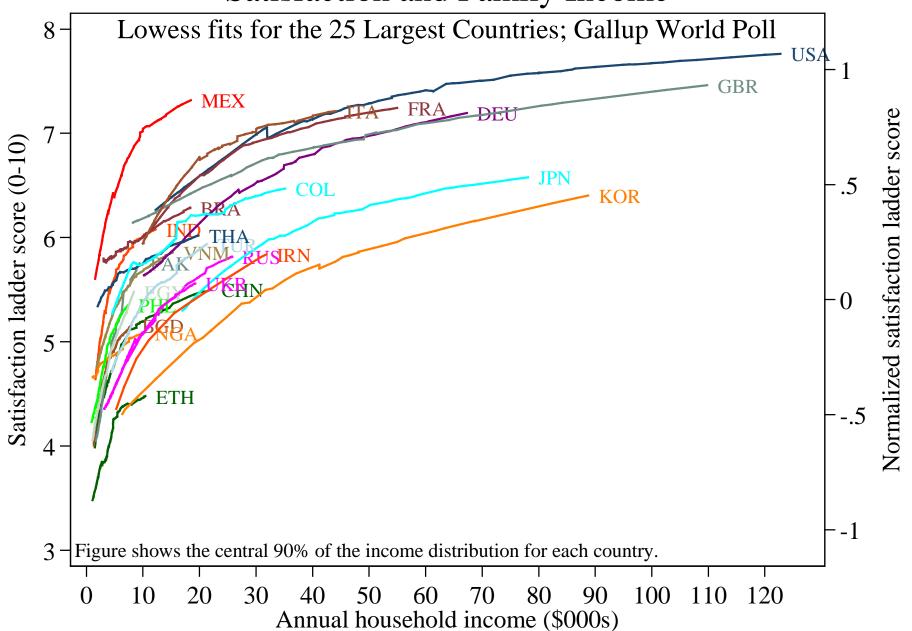
Family income	Very happy	Pretty happy	Not too happy
<\$12,500 (bottom 10%)	21%	53%	26%
\$12,500-\$49,999	25%	61%	13%
\$50,000-\$149,999	40%	54%	6%
≥\$150,000 (top 10%)	53%	45%	2%

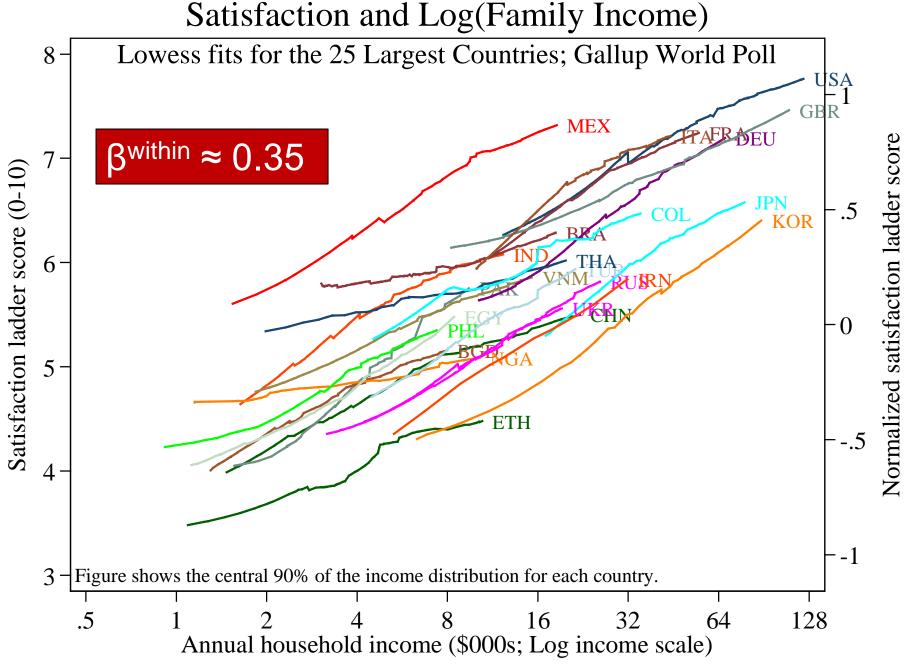
Source: U.S. General Social Survey, 2006

"When we plot average happiness versus income for clusters of people in a given country at a given time, we see that rich people are in fact much happier than poor people. It's actually an astonishingly large difference. There's no one single change you can imagine that would make your life improve on the happiness scale as much as to move from the bottom 5 percent on the income scale to the top 5 percent."

- Robert Frank (2005)

Satisfaction and Family Income





<u>Source</u>: Daniel Sacks, Betsey Stevenson and Justin Wolfers (2010), "Subjective Well-Being, Income, Economic Development and Growth"

No evidence of satiation

	Panel	A: Hap	piness	Panel B: Life Satisfaction		n		
Annual Household Income	Very Happy	Fairly Happy	Not Too Happy	Very satisfied		Somewhat dissatisfied	Very dissatisfied	n
<\$10k	35%	44%	21%	24%	19%	25%	32%	24
\$10k-\$20k	42%	42%	15%	47%	23%	19%	11%	78
\$20k-\$30k	43%	52%	5%	45%	30%	21%	4%	107
\$30k-\$40k	55%	41%	4%	57%	28%	11%	4%	106
\$40k-\$50k	46%	46%	9%	49%	33%	10%	8%	100
\$50k-\$75k	55%	40%	5%	64%	26%	5%	5%	162
\$75k-\$100k	60%	36%	4%	69%	27%	3%	1%	107
\$100k-\$150k	60%	40%	0%	72%	26%	2%	0%	118
\$150k-\$250k	70%	30%	0%	90%	7%	3%	0%	<i>57</i>
\$250k-\$500k	83%	17%	0%	93%	7%	0%	0%	15
>\$500k	100%	0%	0%	100%	0%	0%	0%	8
Whole Sample	53% _{Ste}	41% evenson	and Wolf	ers, <i>Subjec</i>	26% ctive Well-Be	eing 10%	5%	<i>1,014</i> 13

Outline: Assessing the Happiness-Income link

- Within-country comparisons
 - USA
 - All countries

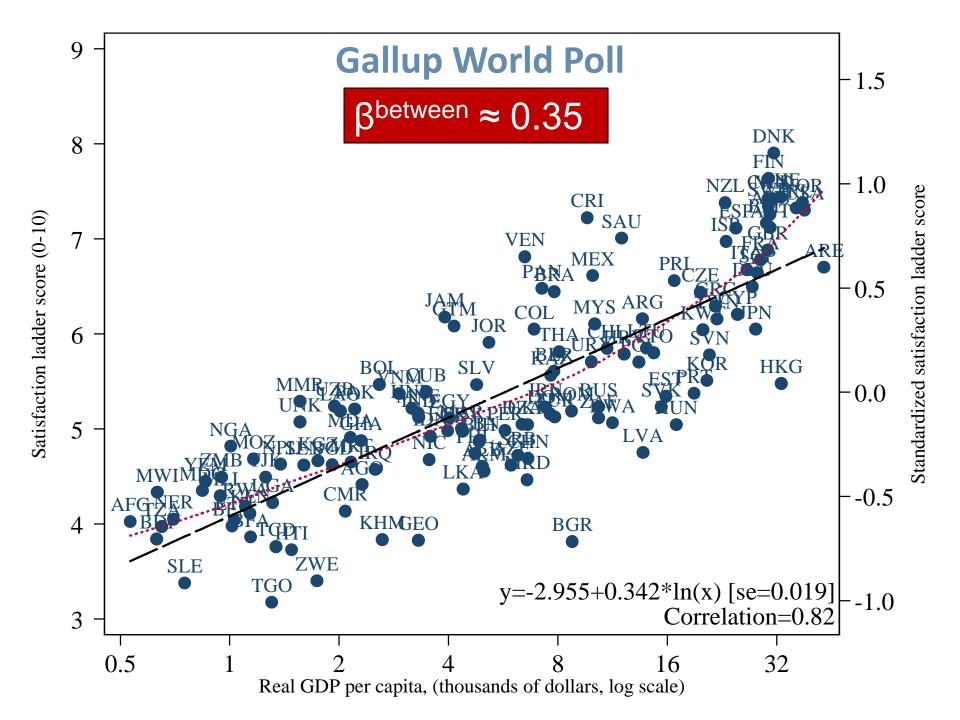
 $\beta_{\text{within}} \approx 0.35$

Between countries:

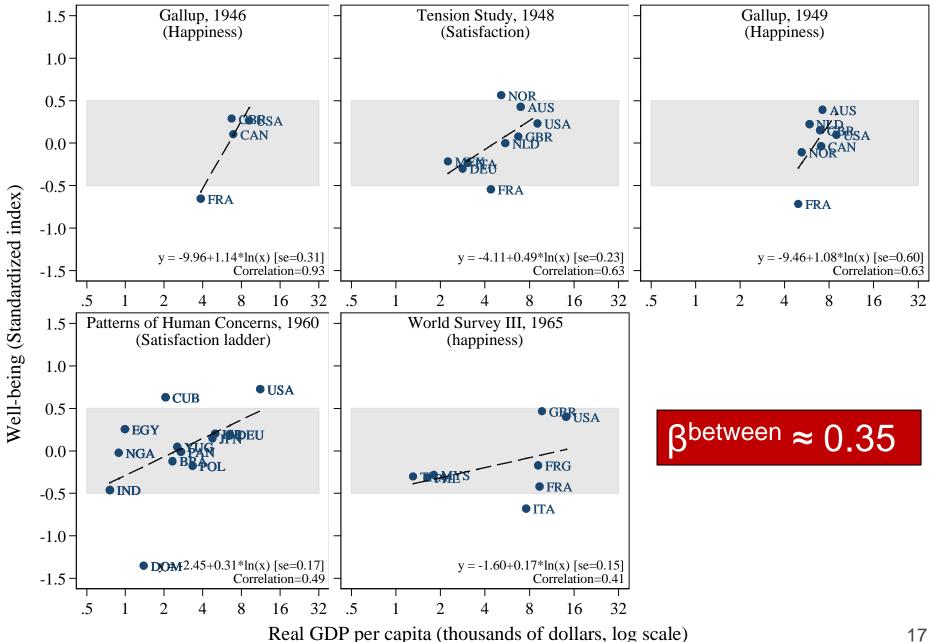
- Through time
- Multiple datasets
- Both happiness and life satisfaction
- No evidence of satiation

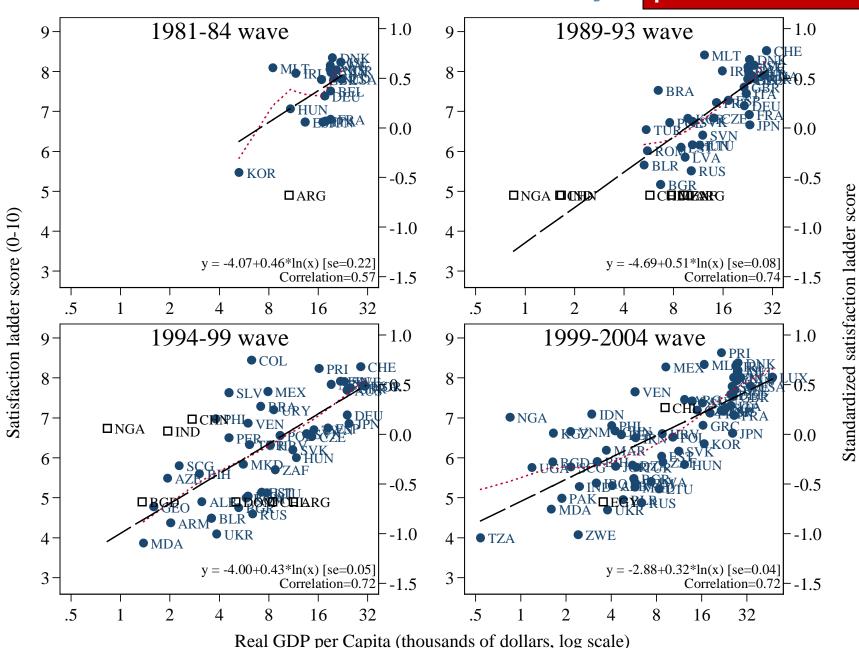
"the happiness differences between rich and poor countries that one might expect on the basis of the within country differences by economic status are not borne out by the international data." – Easterlin, (1974)

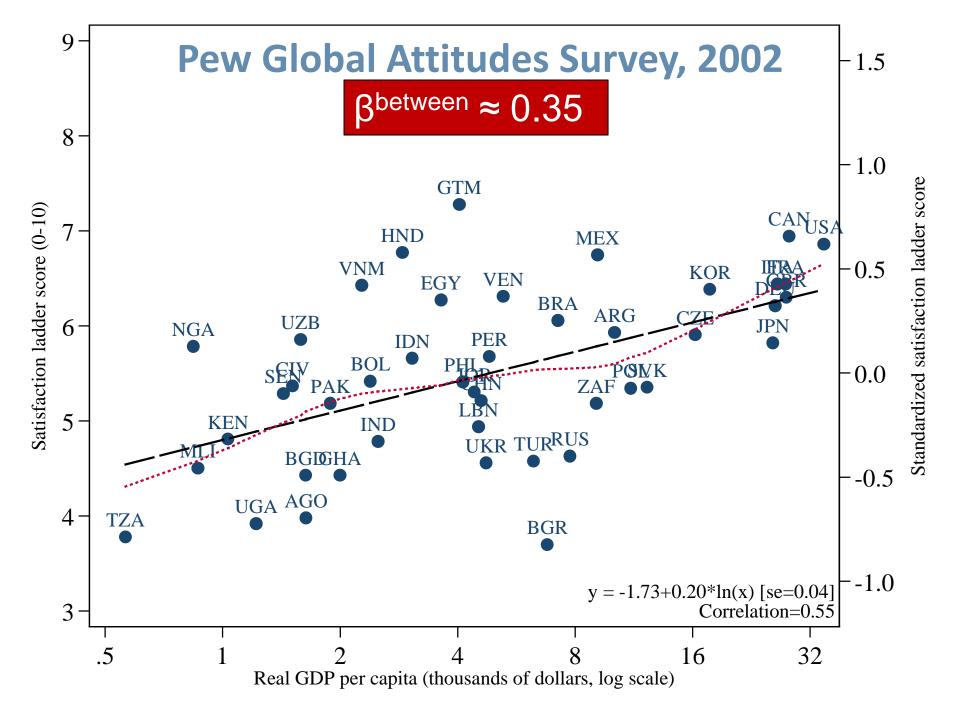
- National Time Series and International Panels
 - Japan
 - USA
 - Europe
- Other measures of well-being
 - Pain, sadness, smiling, good tasting food to eat, respect

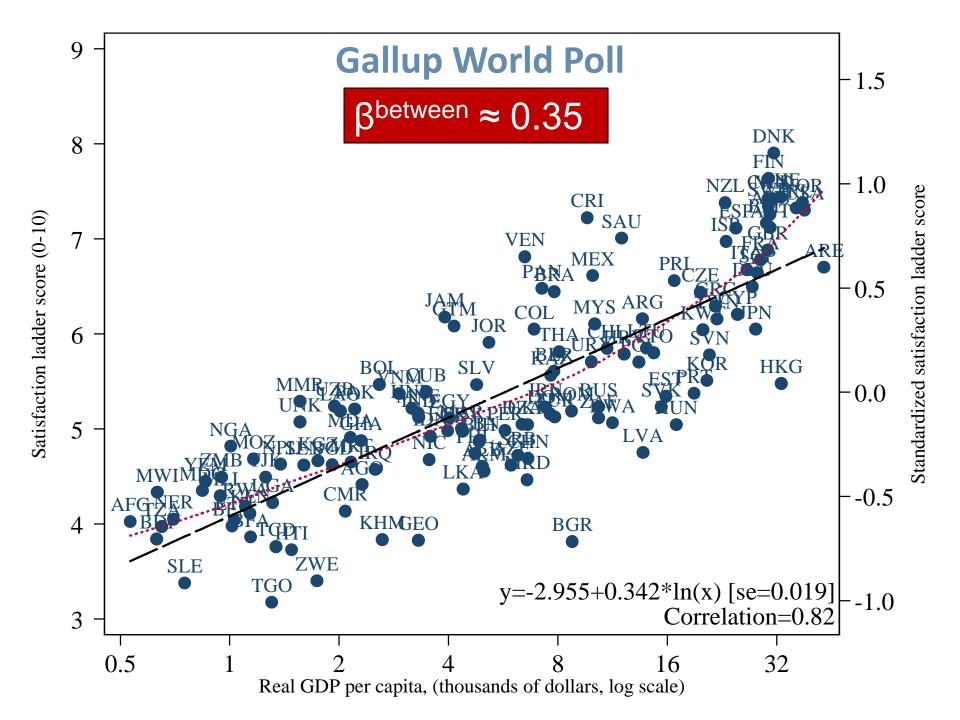


Early Cross-National Studies of Well-Being and GDP









Outline: Assessing the Happiness-Income link

- Within-country comparisons
 - USA
 - All countries

$$\beta_{\text{within}} \approx 0.35$$

Between countries:

- Through time
- Multiple datasets
- Both happiness and life satisfaction
- No evidence of satiation

$\beta_{\text{between}} \approx 0.35$

"the happiness differences between rich and poor countries that one might expect on the basis of the within country differences by economic status are not borne out by the international data." – Easterlin, (1974)

National Time Series and International Panels

- Japan
- USA
- Europe

"income growth in a society does not increase happiness". - Easterlin (1995)

- Other measures of well-being
 - Pain, sadness, smiling, good tasting food to eat, respect

Time Series: No rise in happiness, despite growth

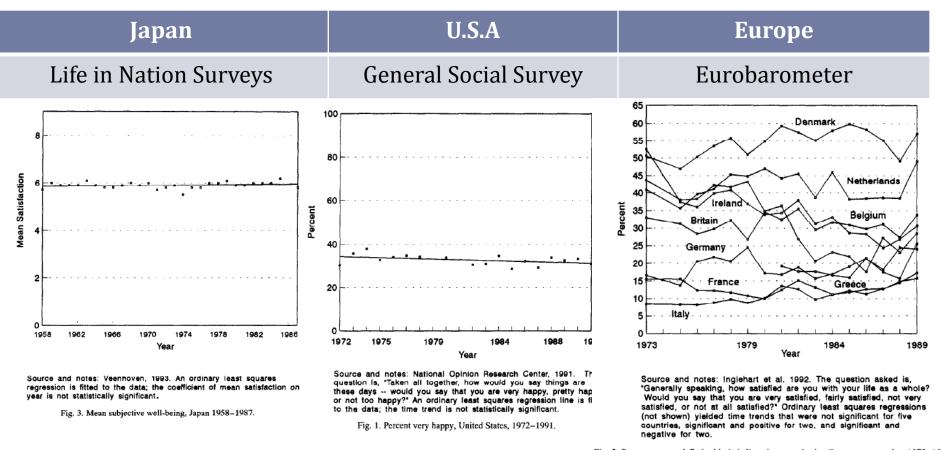
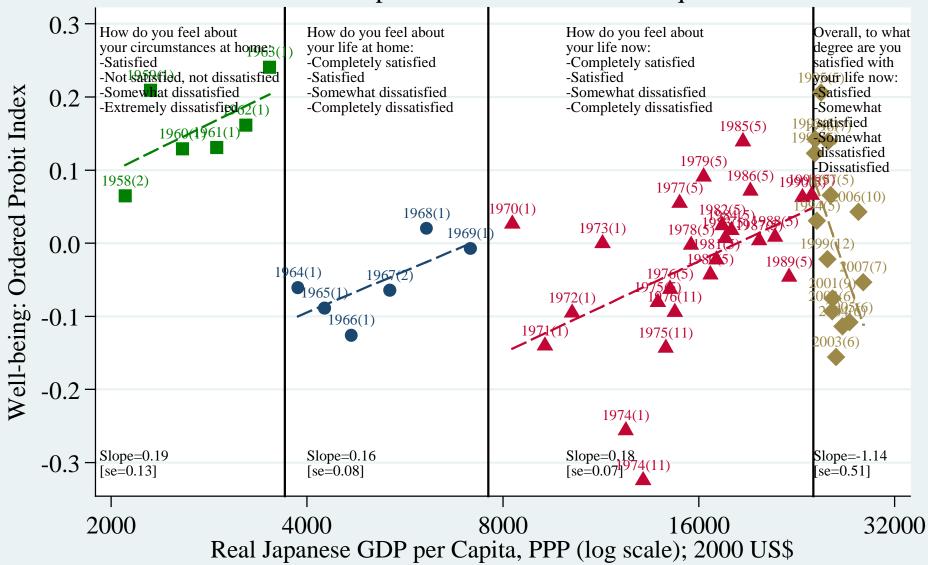


Fig. 2. Percent very satisfied with their lives in general, nine European countries, 1973-1989.

Evolution of Subjective Well-Being and GDP in Japan

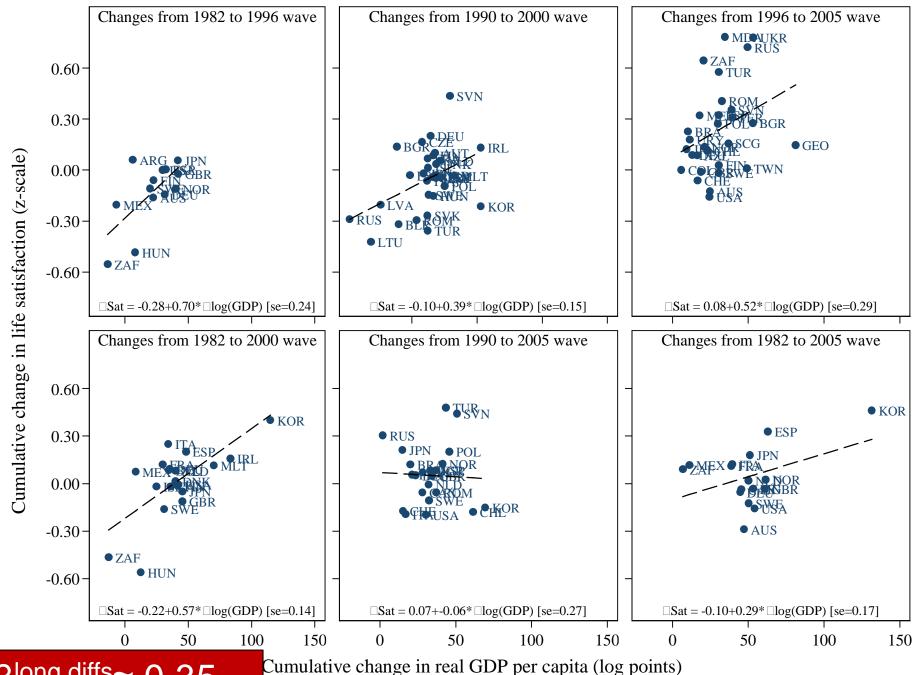
Pattern of responses from four different questions



Source: Life-in-nation surveys, 1958-2007.

 β time series ≈ 0.35

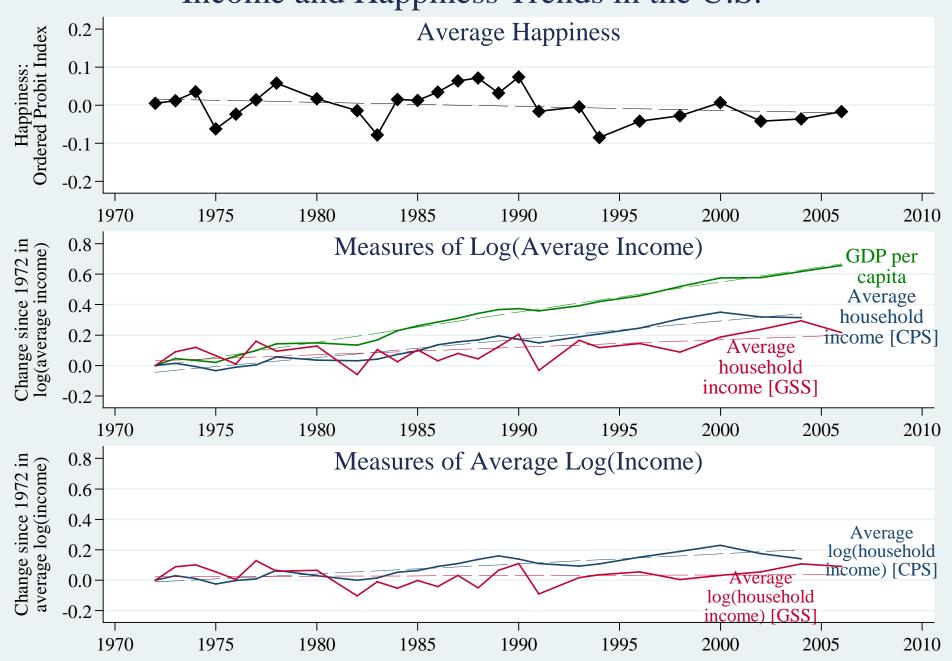
Change in Life Satisfaction and Economic Growth in Europe 0.50 -Belgium Denmark Greece 0.25 -0.00 --0.25y = -2.05 + 0.21 * log(GDP) [se=0.10] Correlation = 0.22 y = 2.53 + -0.25 * log(GDP) [se=0.14] Correlation = -0.31 y = -3.63 + 0.36 * log(GDP) [se=0.05 Correlation = 0.73 -0.50Life Satisfaction, 0-10 Scale France Ireland Italy 0.50 -0.25 -0.00 --0.25 y = -3.91 + 0.39 * log(GDP) [se=0.10] Correlation = 0.63 y = -0.90 + 0.09 * log(GDP) [se=0.05] Correlation = 0.30 y = -6.75 + 0.68 * log(GDP) [se=0.09] Correlation = 0.81 -0.50Netherlands United Kingdom West Germany 0.50 -0.25 -0.00 --0.2500 y = -1.88 + 0.19 * log(GDP) [se=0.07] Correlation = 0.41 y = -1.08 + 0.11 * log(GDP) [se=0.08] Correlation = 0.19 -0.50 y = -1.34 + 0.13 * log(GDP) [se=0.03]32 16 32 16 gtime series ≈ 0.35 Real GDP per capita (thousands of dollars, log scale)



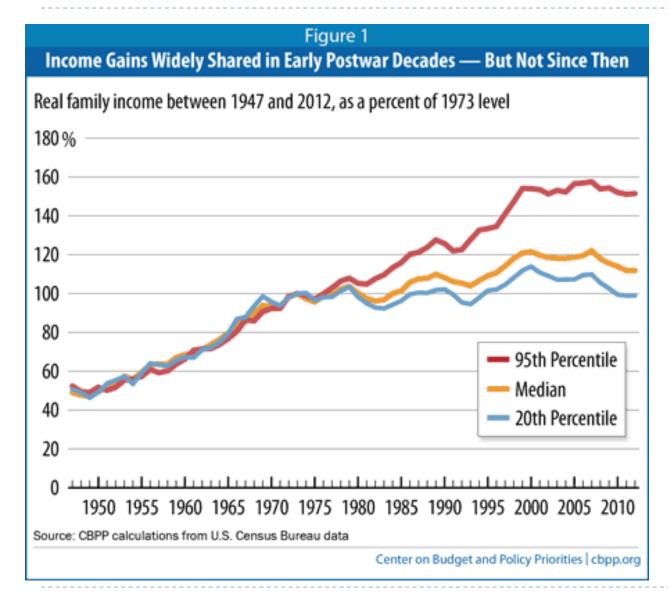
 $\beta^{\text{long diffs}} \approx 0.35$

Types of comparisons	1970s view "Easterlin Paradox"	1990s view "Satiation"	New view: Stevenson-Wolfers (2008)
Within country: Rich v. poor people in a country	Big effects	Big effects for income <\$15k - But not for the rich	Strong effects: $\beta^{\text{within}} \approx 0.35$
Between country : Rich v. poor countries	Statistically insignificant effects interpreted to be zero	GDP<\$15k: Strong effects GDP>\$15k: No effects	Strong effects $\beta^{\text{between}} \approx 0.35$
National time series: Country when rich v. poor	No effects (Japan, USA, Europe)	No effects (Available data are for rich countries)	Strong effects β ^{time series} ≈0.35
International panel: Countries with fast v. slow growth	Largely unexamined	Largely unexamined	Strong effects β ^{panel} ≈0.35
Implications	Relative income determines well- being	Relative income determines well- being once "basic needs" are met"	There's no paradox (and never was)
Policy conclusions	De-emphasize growth	Rich countries should de-emphasize growth and raise income tax	

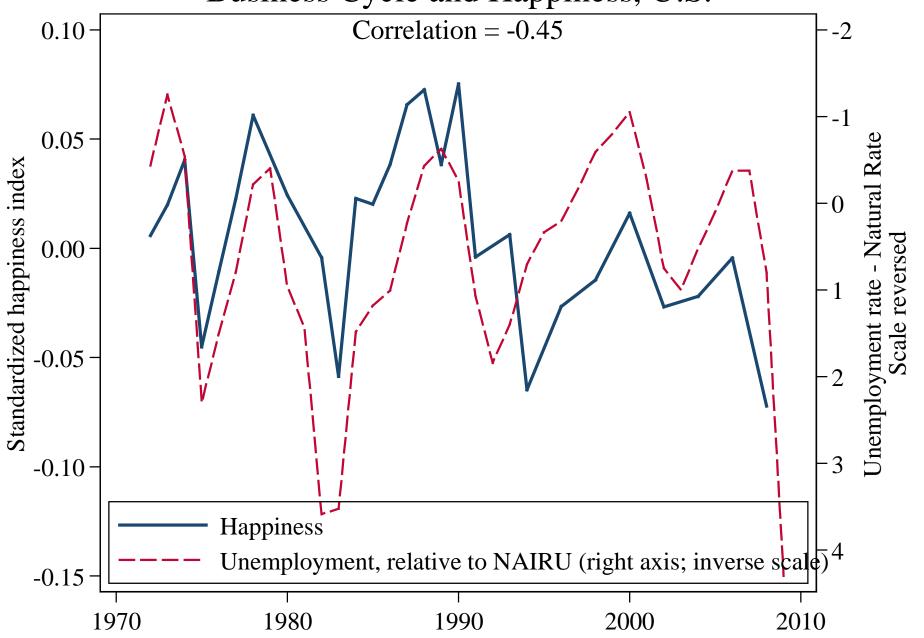
Income and Happiness Trends in the U.S.



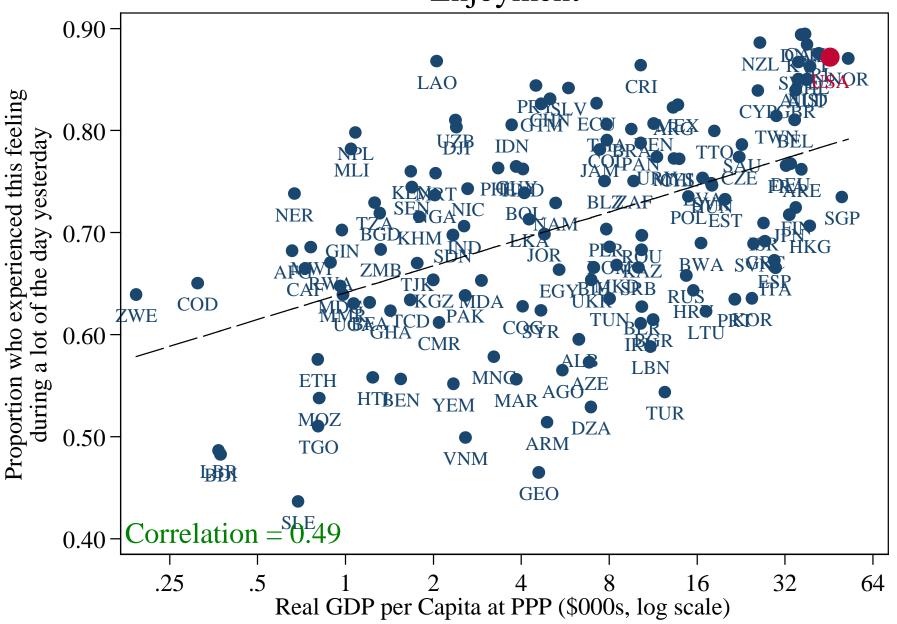
Income gains since 1973



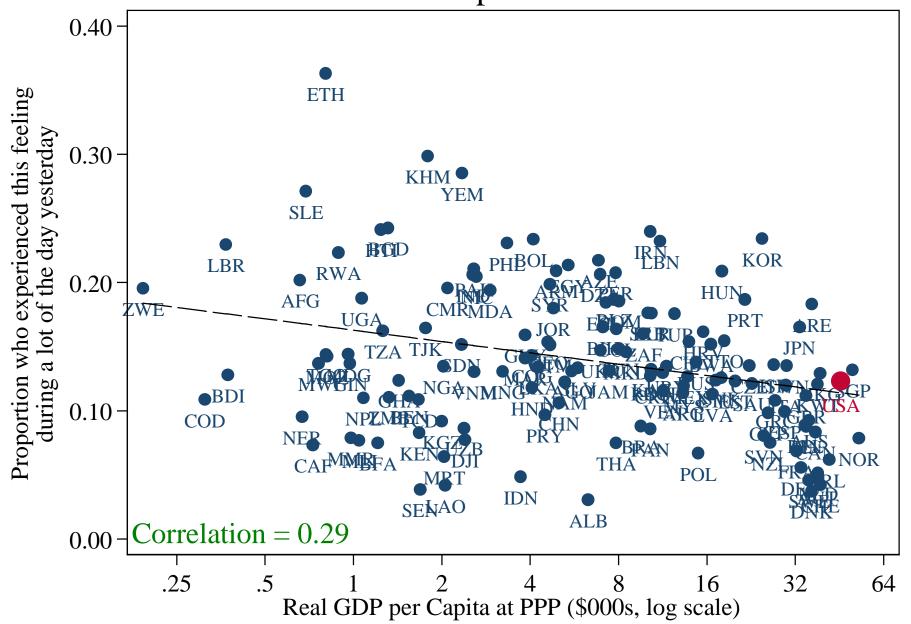
Business Cycle and Happiness, U.S.



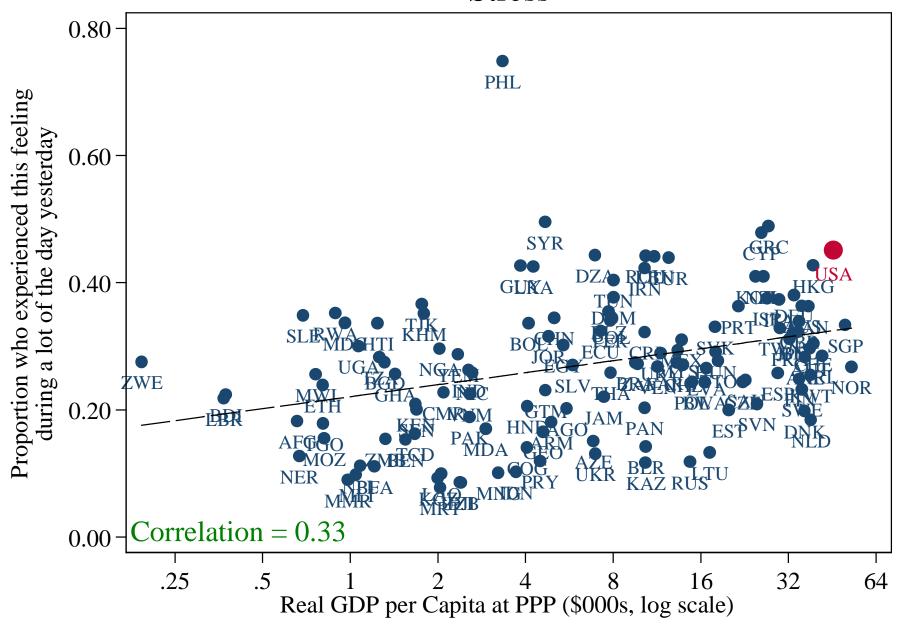
Enjoyment



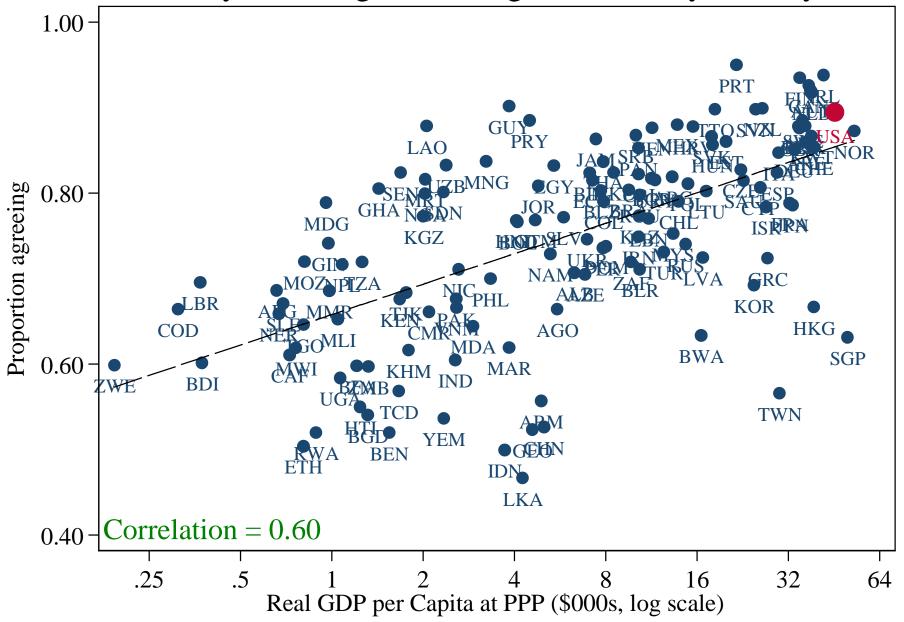
Depression



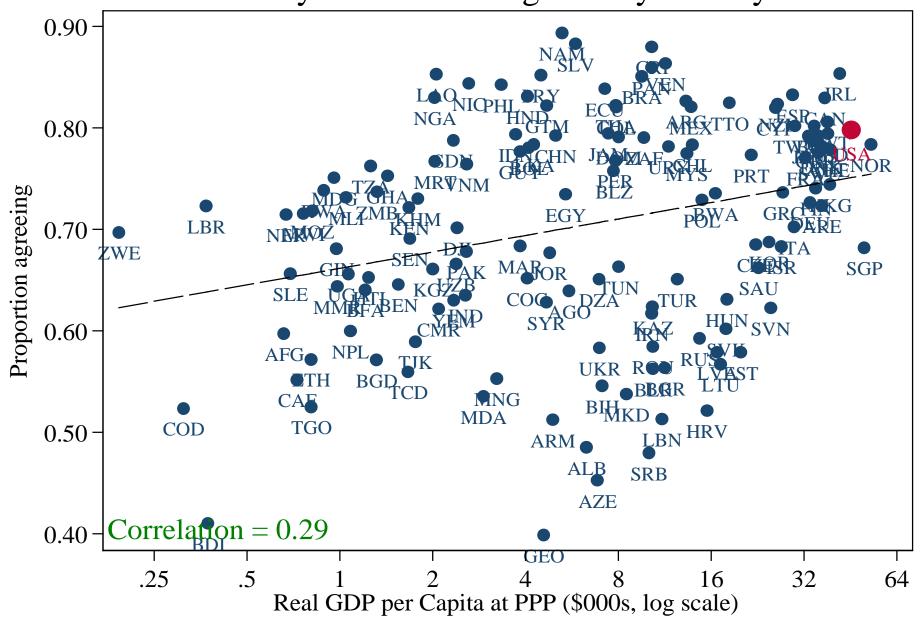
Stress



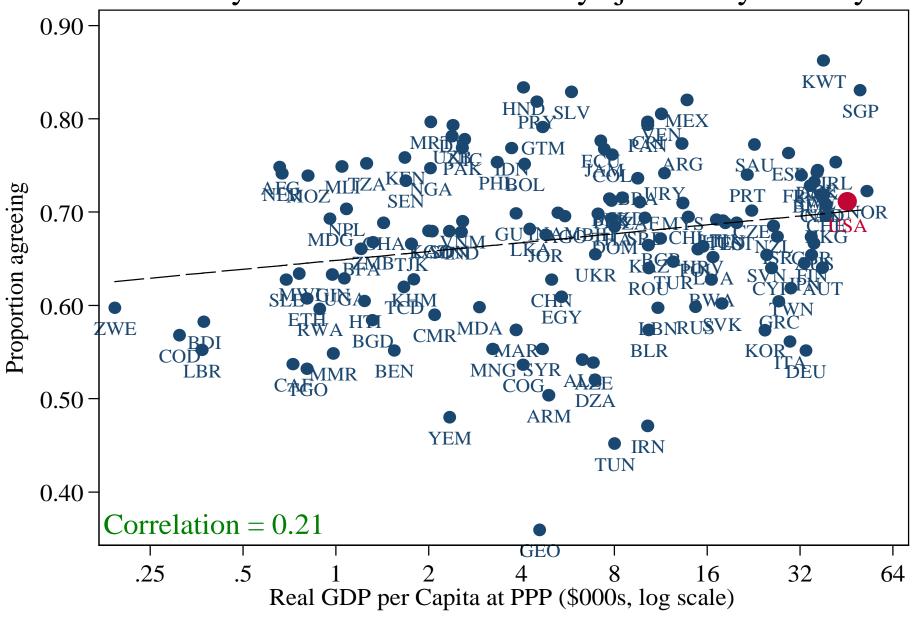
Did you have good tasting food to eat yesterday?



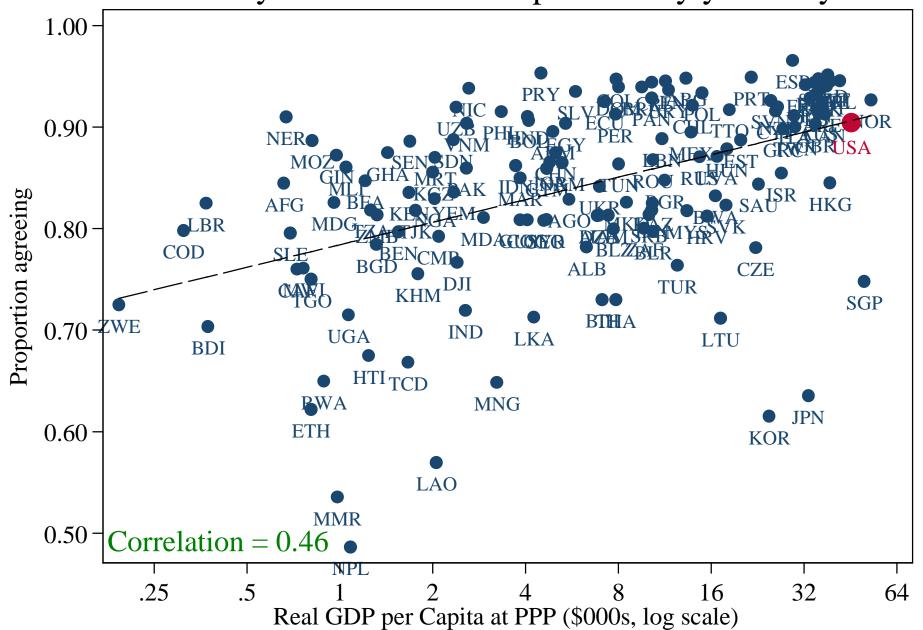
Did you smile or laugh a lot yesterday?



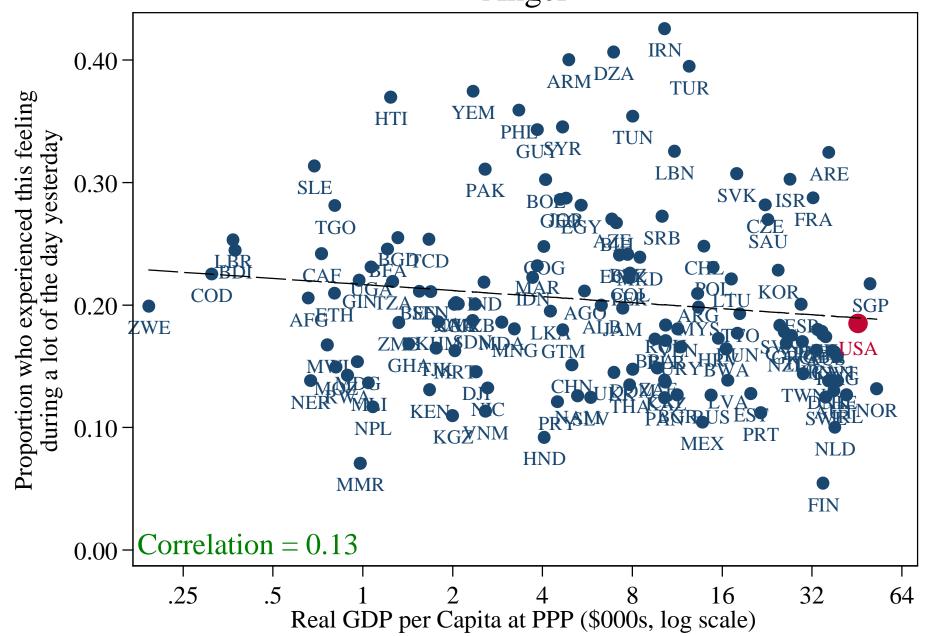
Would you like to have more days just like yesterday?



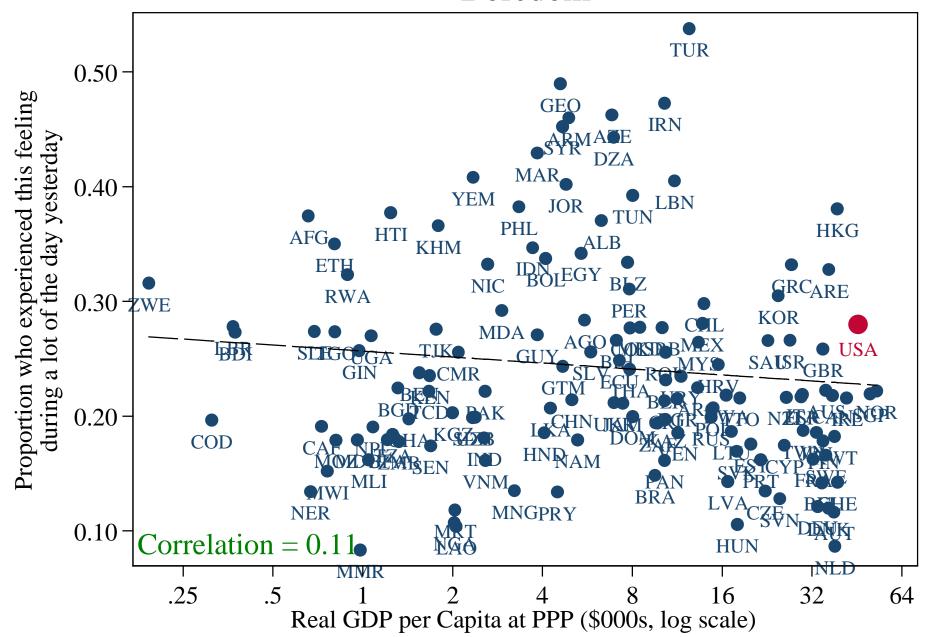
Were you treated with respect all day yesterday?



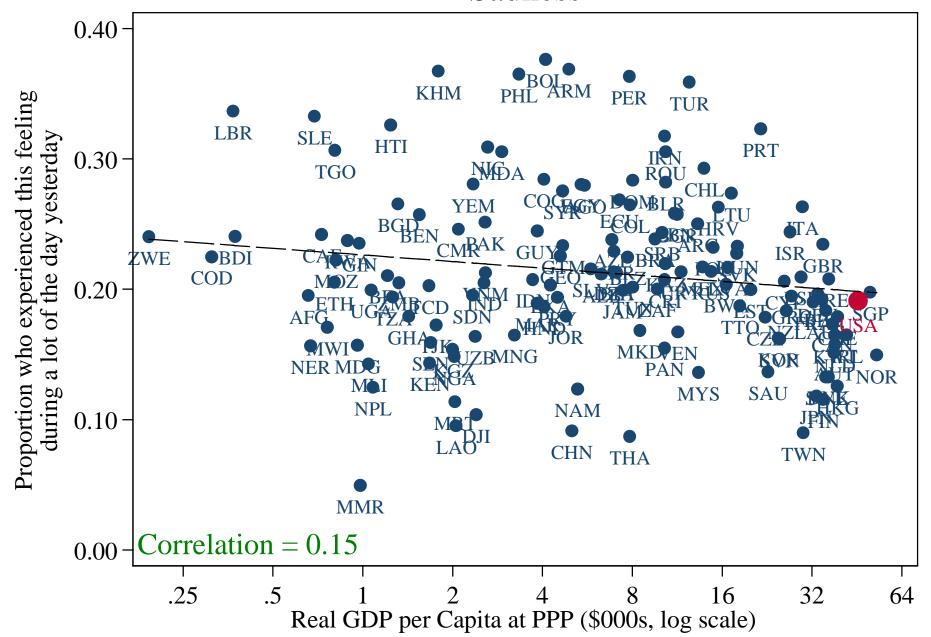
Anger



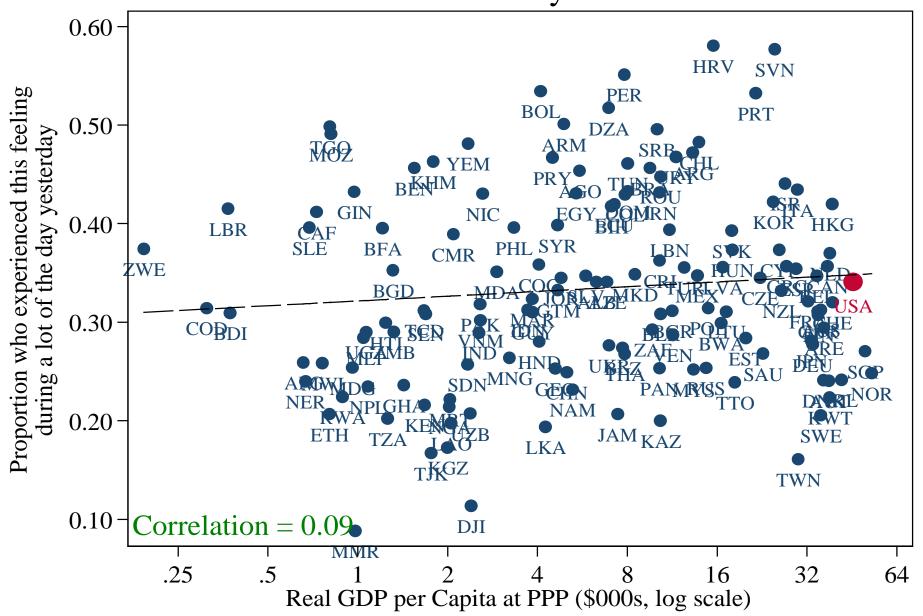
Boredom



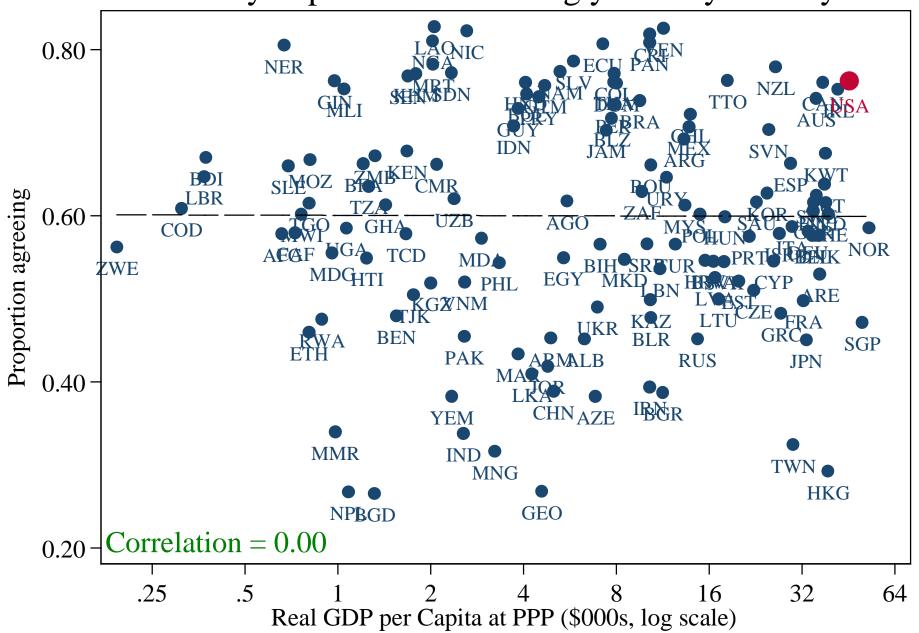
Sadness



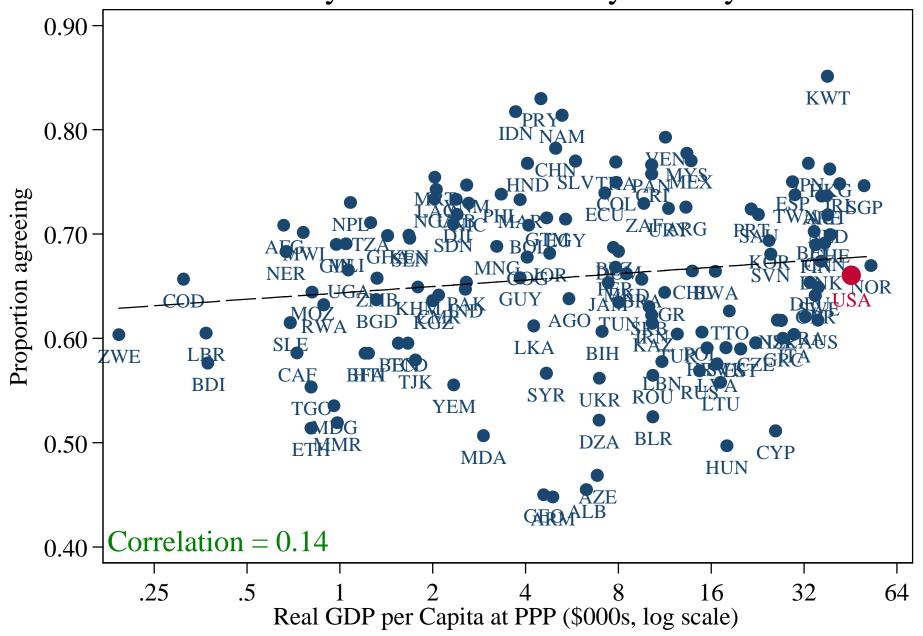
Worry



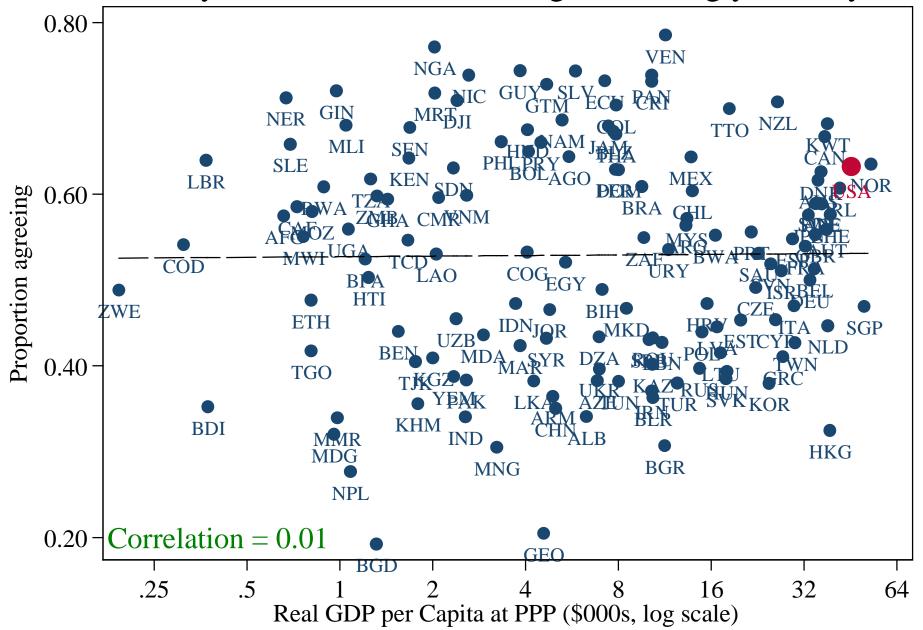
Were you proud of something you did yesterday?



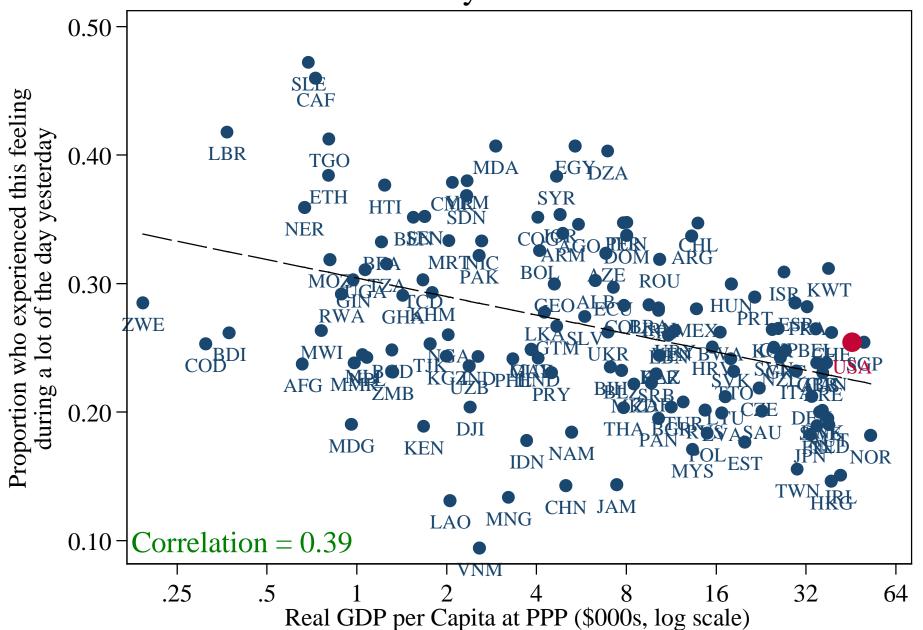
Did you feel well rested yesterday?



Did you learn or do something interesting yesterday?

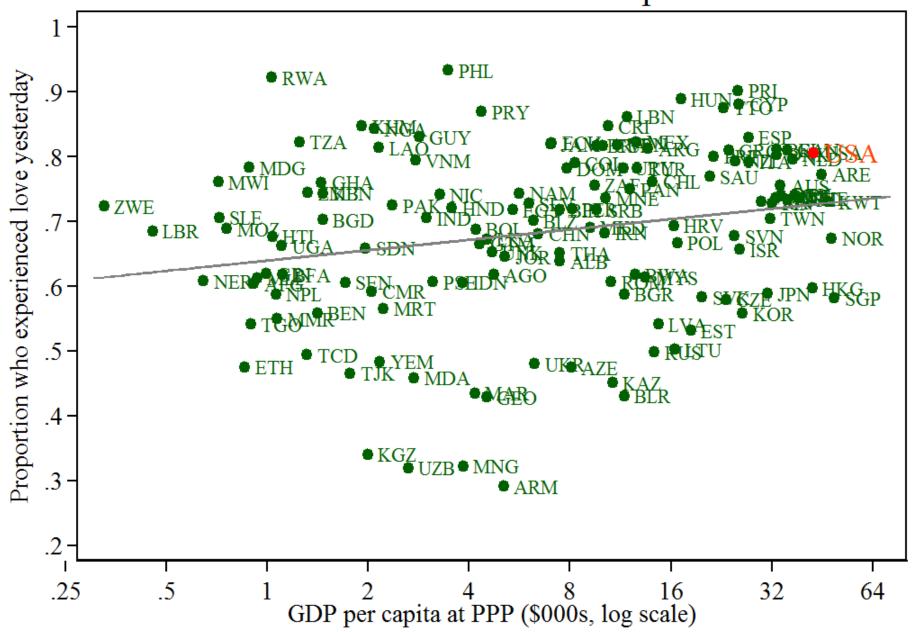


Physical Pain

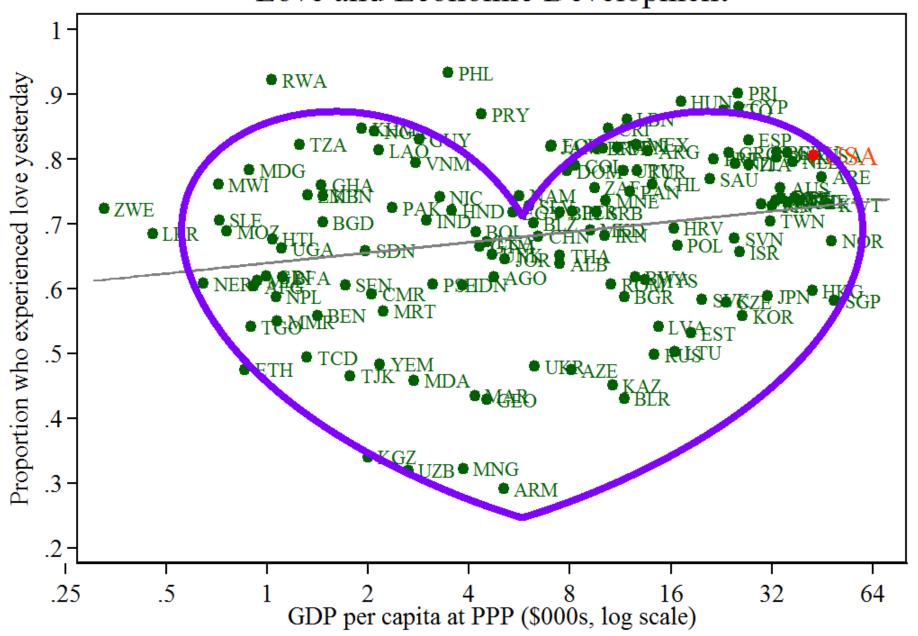


Source: Alan Krueger, Betsey Stevenson and Justin Wolfers, "A World of Pain".

Love and Economic Development



Love and Economic Development







Victorian Public Sector Commission & the Australia and New Zealand School of Government present:

Don't worry, be happy: what economics can (and cannot) tell us about well being'

Moderator

Speaker

Professor Gary Banks, AODean and CEO
ANZSOG

Professor Justin WolfersUniversity of Michigan

Please switch off all devices for the duration of the seminar





Upcoming Applied Learning Seminars

Knowing what's valuable: managing service delivery in a

turbulent and complex world

Speaker: Professor Mark Moore

Melbourne

3 March

Enquiries
Applied Learning
T +61 3 8344 1900
appliedlearning@anzsog.edu.au

Details online at anzsog.edu.au

Follow us











Upcoming Executive Education Workshops

Recognising Public Value Course leader: Mark Moore	Melbourne	25-26 February
Policy and Program Skills Course leader: Michael Mintrom	Canberra	5-7 April
Leading Ethical Organisations Course leaders: Dr Michael Macaulay	Melbourne	23-24 May

Enquiries
Executive Education
T +61 3 8344 1984
Executive.education@anzsog.edu.au

Details online at anzsog.edu.au

Follow us













www.anzsog.edu.au

