

Objectives

- Develop familiarity with breadth and depth of IPUMS Time Use data
- Enhance awareness of appropriateness of American Time Use Survey (ATUS), American Heritage Time Use Study (AHTUS), and Multinational Time Use Study (MTUS) for specific research topics
- Learn about using IPUMS Time Use archives to analyze health & well-being
- Learn how to navigate the IPUMS Time Use web-based extract system
- Obtain hands-on experience using IPUMS Time Use

What is IPUMS anyway?

IPUMS provides census and survey data from around the world integrated across time and space. IPUMS integration and documentation makes it easy to study change, conduct comparative research, merge information across data types, and analyze individuals within family and community context. Data and services available free of charge.

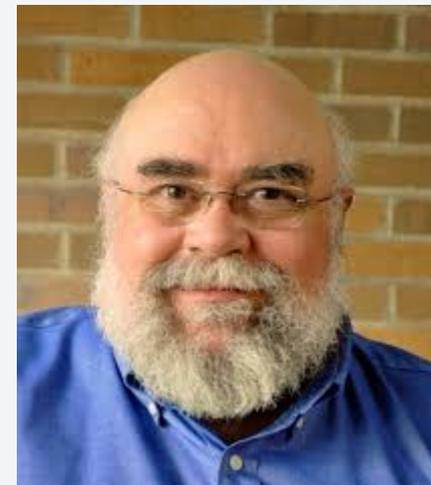
IPUMS Time Use Origins



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Structure of Time Diary Data

START	STOP	ACTIVITY	LOCATION	WITH WHOM
4:00	6:00	Sleep	n/a	n/a
6:00	6:10	Personal Care	n/a	n/a
6:10	6:15	Dressing	Home	Alone
6:15	6:30	Eating Breakfast	Home	Spouse
6:30	6:45	Travel to Train Station	Car	Alone
6:45	6:55	Waiting for the Train	Train Station	Alone
6:55	7:30	Travel to Work	Train	Alone
7:30	10:00	Working	Work	Alone
10:00	11:00	Working	Work	Co-Workers
11:00	11:05	Personal Care	Work	n/a
11:05	12:00	Working	Work	Alone
12:00	12:10	Traveling to Restaurant	Walking	Co-Workers

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U.S. Census and American Community Survey microdata from 1980 to the present.

[VISIT SITE](#)



Current Population Survey microdata including basic monthly surveys and supplements from 1980 to the present.

[VISIT SITE](#)



Census microdata covering 82 countries from 1980 to the present. IPUMS IARR offers microdata from the 19th and early 20th centuries.

[VISIT SITE](#)



Demographic and Health Surveys integrated for analysis across time and space from 1980 to the present.

[VISIT SITE](#)



Tabular U.S. Census data and GIS boundary files from 1990 to the present.

[VISIT SITE](#)



Integrated data on population and the environment from 1980 to the present.

[VISIT SITE](#)



Historical and contemporary time use data from 1980 to the present.

[VISIT SITE](#)



Health survey data from the National Health Interview Survey from the 1960s to the present.

[VISIT SITE](#)



Survey data on the science and engineering workforce in the U.S. from 1990 to the present.

[VISIT SITE](#)

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Submissions for IPUMS Research Award are now closed.

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CALENDAR

APRIL 27, 2017

Population Association of America

Hilton Chicago

JUNE 25-27, 2017

Academy Health

Hyatt Regency, New Orleans, LA

JULY 18-21, 2017

81st ISI World Statistics Congress (WSC)

Marrakech, Morocco

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<http://www.ipums.org/>



THREE RESOURCES TO STUDY TIME USE.

These projects provide free individual-level time use data for research purposes. The data extract systems make it easy to create data sets containing time use and other variables a user needs.

ATUS

AMERICAN TIME USE SURVEY EXTRACT BUILDER

Annual American Time Use Survey (ATUS) data from 2003 forward.

[GET DATA](#)

AHTUS

AMERICAN HERITAGE TIME USE STUDY EXTRACT BUILDER

Historical American time use data since 1965 harmonized for comparison over time, including the ATUS samples.

[GET DATA](#)

MTUS

MULTINATIONAL TIME USE STUDY EXTRACT BUILDER

MTUS is a project dedicated to making it easy for researchers to use data from around the world.

[GET DATA](#)

SUPPORTED BY



Key Differences

- Contents (countries, years of data)
- Variable coding
- Activity detail

- All data are publicly available for FREE
- We don't collect the data, but we make it easier to use and access, saving researchers time

Why You Should Use IPUMS Time Use

- Lowers barriers to accessing time use data
- Simplifies use of complex time diary data
- Web-based documentation access
 - Dataset and variable-level documentation
 - Variable-level frequencies
- Consistently-coded data
- Customized data extracts
- Email helpline: ipums@umn.edu

Registration

- Required, but free and easy
- Can use same login for all IPUMS projects
- Allows you to create data extracts and access previously created extract definitions
- Allows us to demonstrate use of the data and get continued funding for this resource
- Data are free to use, but not to provide, help us out – CITE the data

How to Cite the Data

- *Sandra L. Hofferth, Sarah M. Flood, and Matthew Sobek. American Time Use Survey Data Extract Builder: Version 2.7 [dataset]. College Park, MD: University of Maryland and Minneapolis, MN: IPUMS, 2018.*
<https://doi.org/10.18128/D060.V2.7>
- If possible, citations should also include the URL for the ATUS-X site: <https://www.atusdata.org>
- For link to citation, click [here](#)



PROJECT

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AMERICAN TIME USE SURVEY EXTRACT BUILDER

The ATUS is a nationally representative U.S. time diary survey for period since 2003. IPUMS Time Use harmonizes these data and provides a data extract builder that allows users to create custom time use variables and data extracts for analysis. ATUS-X is a collaboration of the Minnesota Population Center and the Maryland Population Research Center.

TIME IS OUR SCARCEST RESOURCE...USE IT WISELY!

CREATE AN EXTRACT

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OTHER TIME USE EXTRACT BUILDERS

[AHTUS](#)

[MTUS](#)

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NEW USERS

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TIME USE NEWS

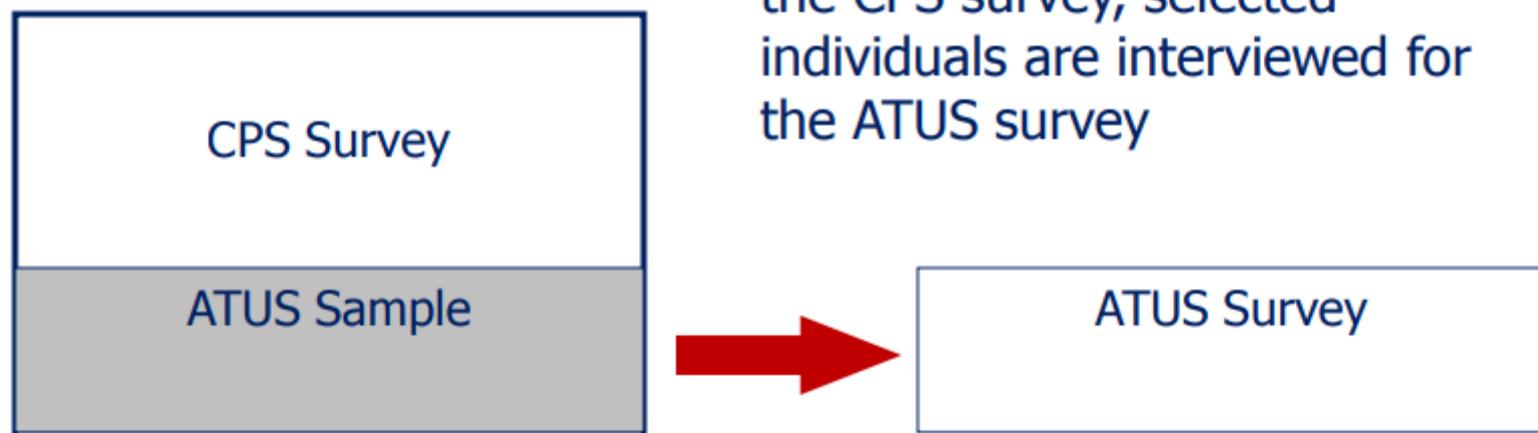
ATUS - X

- www.atusdata.org
- Cross-sectional data from the American Time Use Survey from 2003 to the present
- Survey one person age 15+ per household
- Computer-assisted interview conducted by U.S. Census Bureau for the Bureau of Labor Statistics
- Annual data released in summer each year
- Occasional supplements with focused items:
 - Eating and Health, Well-Being, Leave

ATUS Sampling Frame

- People are selected from households that recently completed the monthly labor force survey—the Current Population Survey (CPS)

2 to 5 months after the end of the CPS survey, selected individuals are interviewed for the ATUS survey



ATUS Sample Allocation

- The ATUS sample is split evenly between weekdays and weekend days
 - ▶ 10 percent of designated persons are asked about a weekday
 - ▶ 25 percent of designated persons in the sample are asked about a Saturday, and 25 percent are asked about a Sunday

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25%	10%	10%	10%	10%	10%	25%

Example: Diary

So let's begin. Yesterday, Monday, at 4:00 AM, what were you doing?

- Use the slash key (/) for recording separate/simultaneous activities.
- Do not use precodes for secondary activities.

- | | | |
|------------------------------|---------------------------------|------------------------------------|
| 1. Sleeping | 8. Cleaning kitchen | 30. Don't know/Can't remember |
| 2. Grooming (self) | 9. Laundry | 31. Refusal/ None of your business |
| 3. Watching TV | 10. Grocery shopping | |
| 4. Working at main job | 11. Attending religious service | |
| 5. Working at other job | 12. Paying household bills | |
| 6. Preparing meals or snacks | 13. Caring for animals and pets | |
| 7. Eating and drinking | | |

	Start	ID	Activity	TIME	Hrs	Mins	Stop	Who	Who_2	Where	Where specify
[1]	4:00AM		Sleeping	2	8	0	12:00PM				
[2]	12:00PM		Preparing meals and snacks	1	1	0	1:00PM	0		1	Respondent's home
[3]	1:00PM		playing with kids	1		1	1:01PM	2		1	Respondent's home
[4]	1:01PM		Grooming	1	2	0	3:01PM				





PROJECT

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AMERICAN HERITAGE TIME USE STUDY EXTRACT BUILDER

The AHTUS is a harmonized collection of time diary data from the U.S. for the period 1965 to 2012. AHTUS-X is a data extract builder that allows users to create custom time use variables and data extracts for analysis. This project is a collaboration of the Minnesota Population Center, the Maryland Population Research Center and the Centre for Time Use Research.

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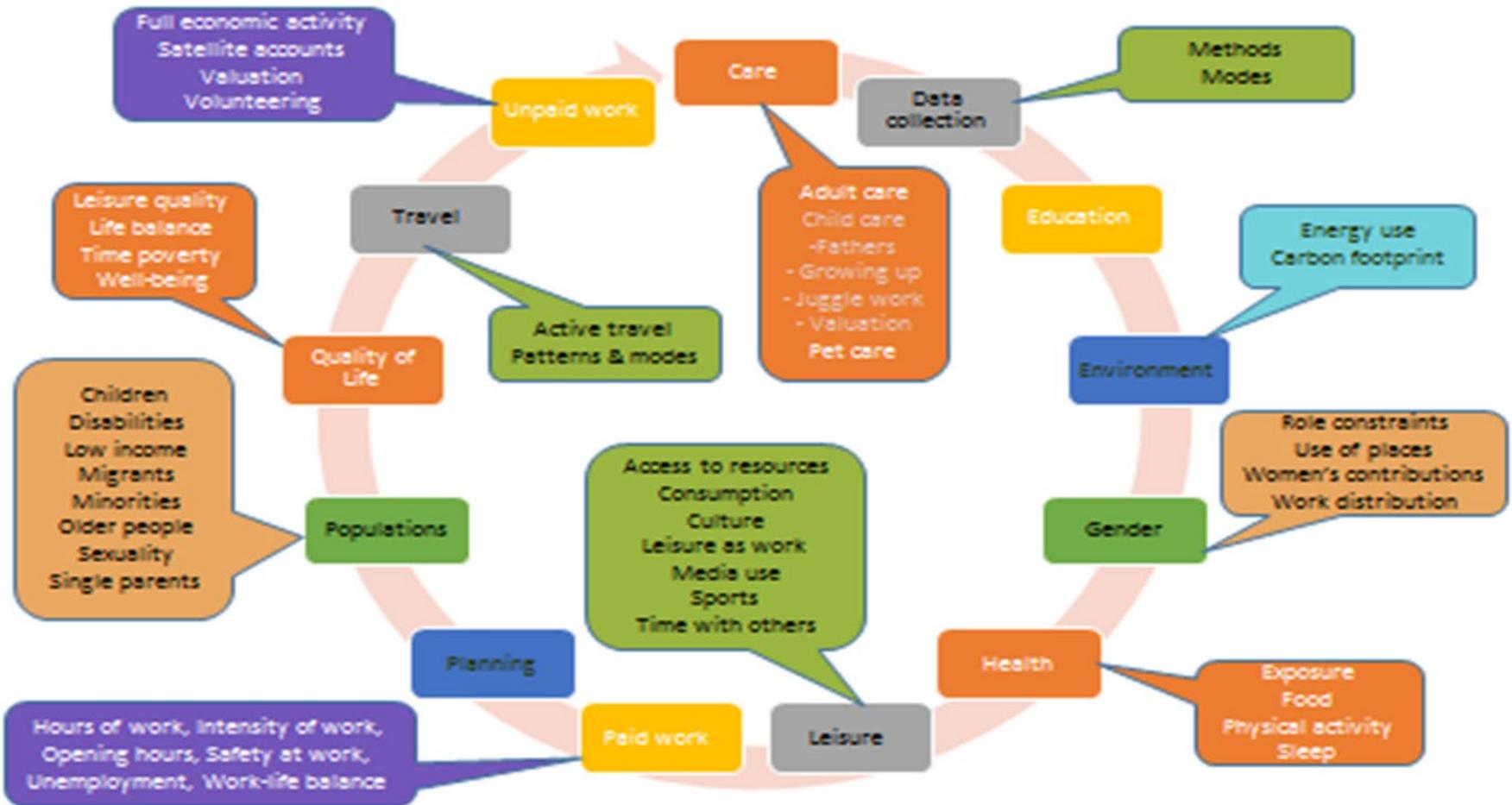
AHTUS-X

- 1965-1966 Multinational Comparative Time-Budget Research Project
- 1975 American's Use of Time: Time Use in Economic and Social Accounts
- 1985 American's Use of Time Project
- 1992-1994 National Human Activity Pattern Survey
- 1998-2001 Family Interaction, Social Capital, and Trends in Time Use Study and National Survey of Parents
- American Time Use Survey 2003-2012

Currently Available via MTUS - X

- Austria
- Bulgaria
- Canada
- Finland
- France
- Hungary
- Israel
- Italy
- Netherlands
- Spain
- United Kingdom
- United States

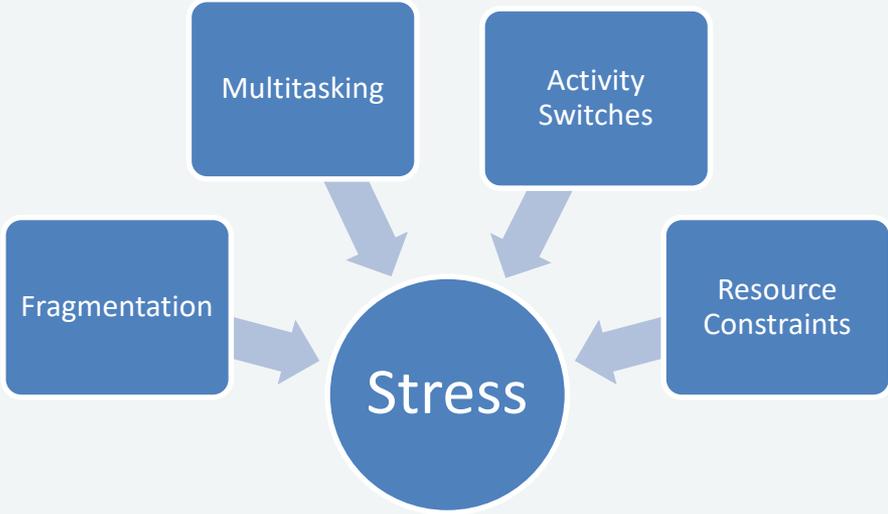
Policy Applications of Time Use Research



What is a time use variable?

- Number of minutes per day (0-1440) in specific activities
- Summarize time across the day based on
 - Primary and secondary activities
 - Location
 - Time of day
 - With others
- More restrictions = fewer people who will have done the activity given the constraints

Leisure & Health

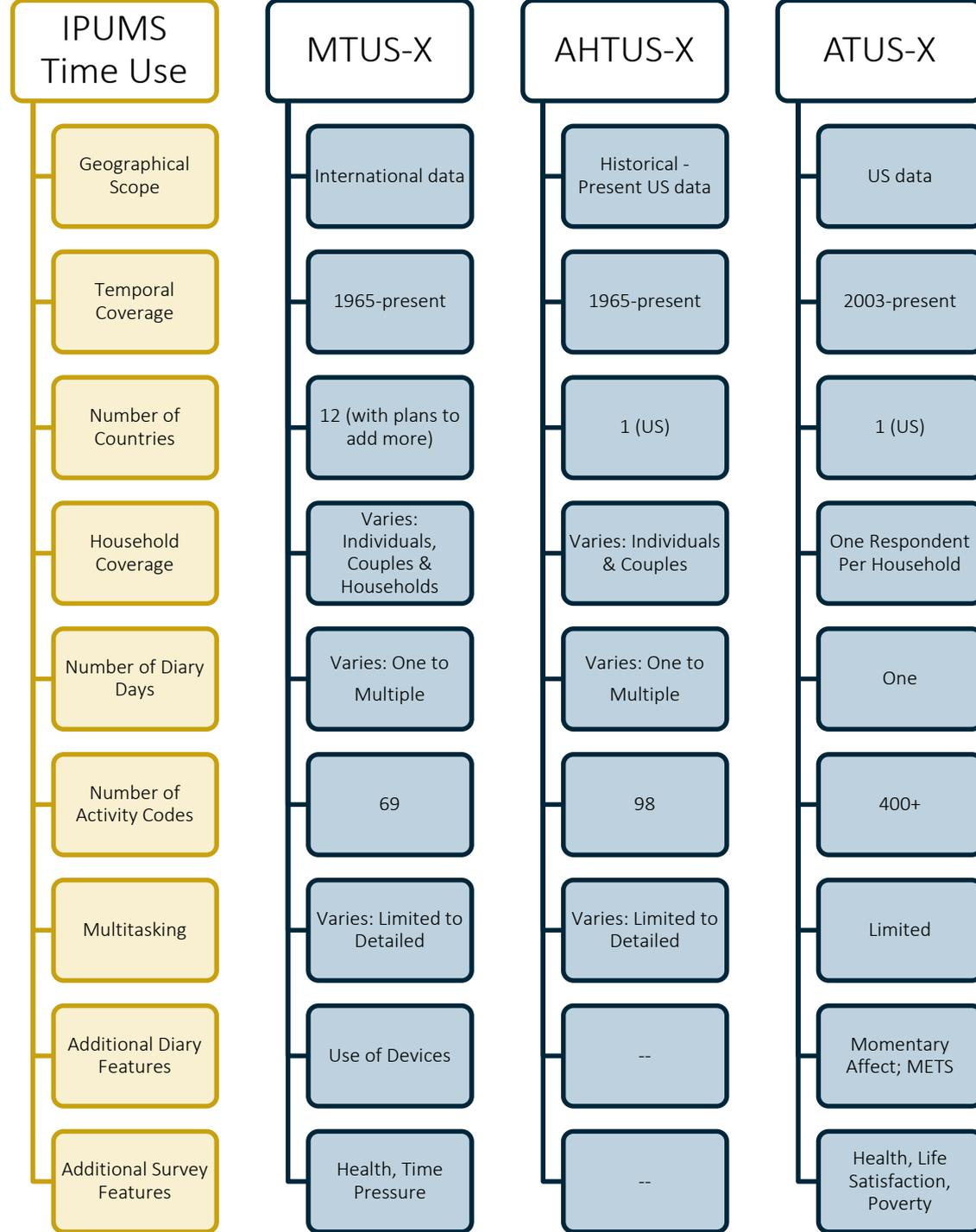


Leisure & Health Disparities

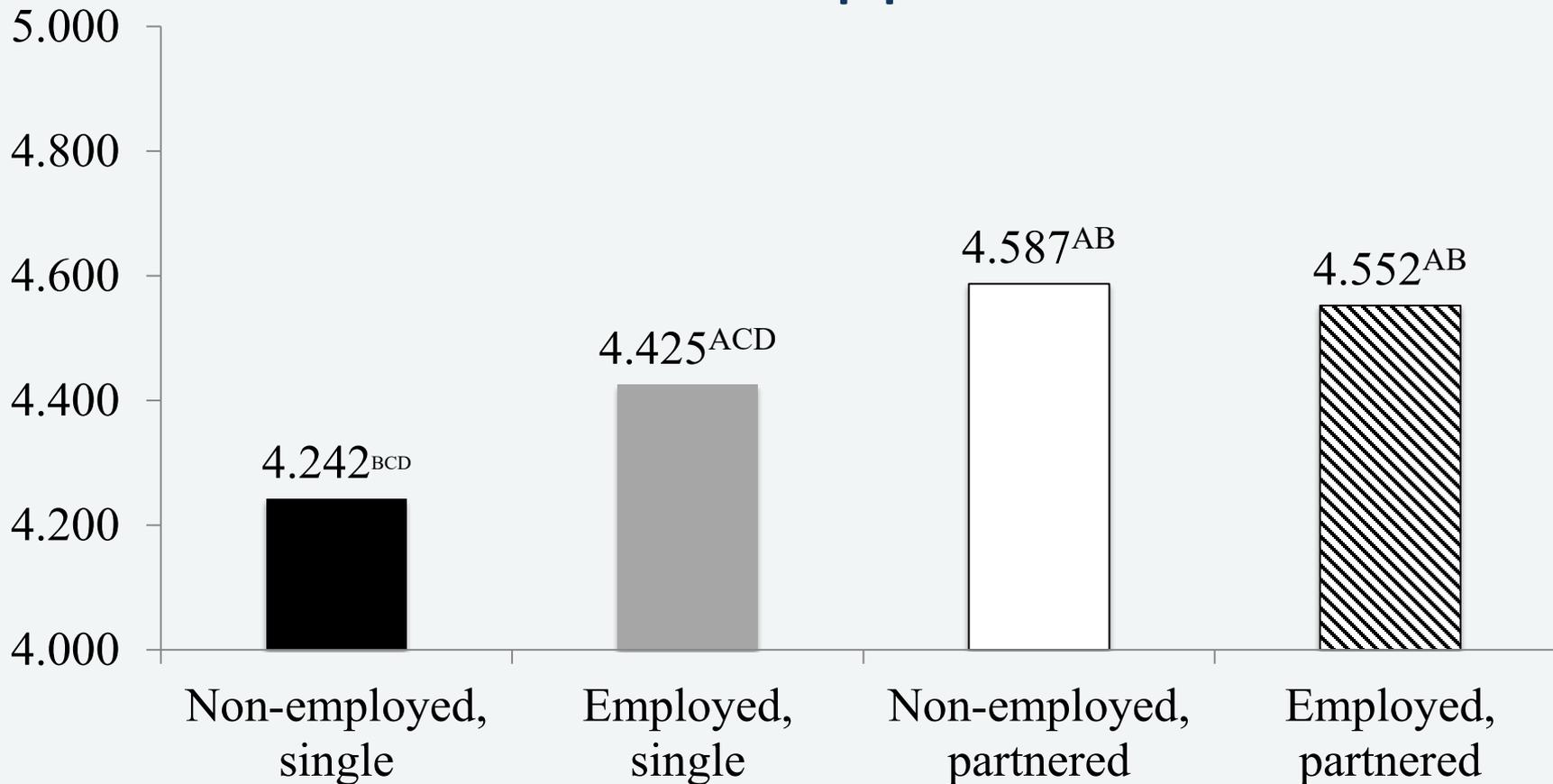
- Less total but more quality leisure for highly educated (Gershuny 2000; Sevilla, Gimenez-Nadal, & Gershuny, 2012; Sayer 2018)
- Cross-national variation determinants of leisure activity & context
 - Educational gradient in parenting practices (Altintas 2016; Pepin, Sayer, & Casper 2018; Craig & Mullan 2013; 2012);



Archive Decision Tree

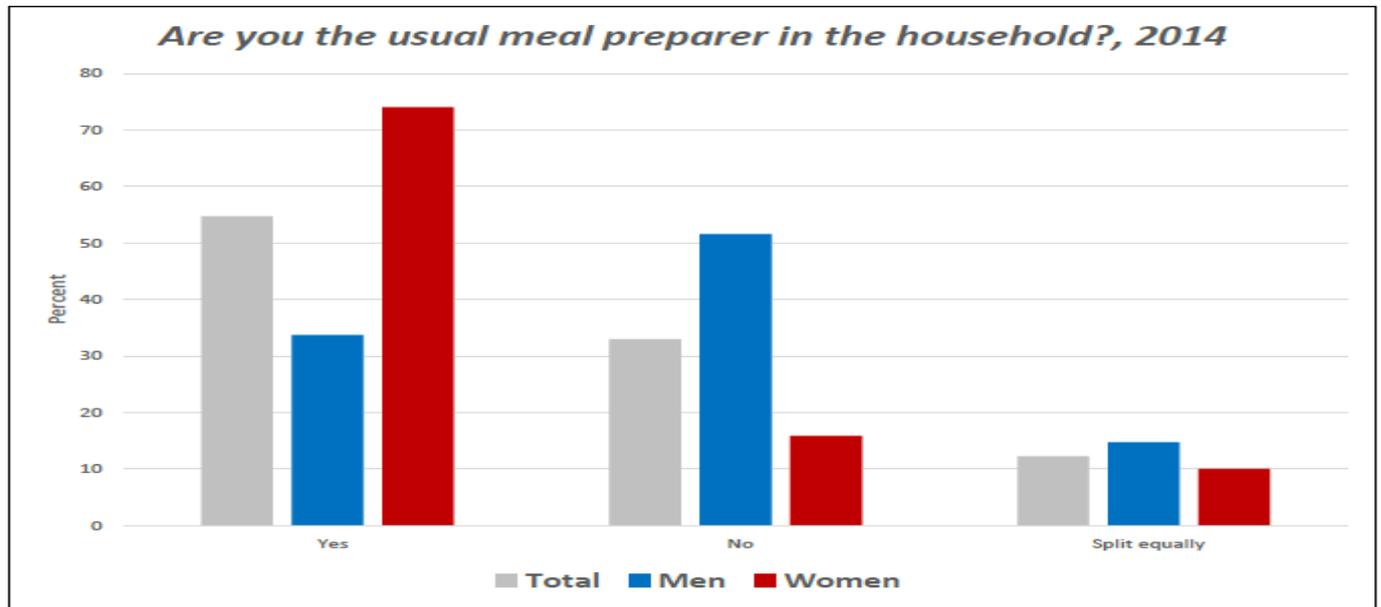


Partnered Mothers Happier with Children



Source: [Meier, Ann, Kelly Musick, Sarah Flood, Rachel Dunifon. 2016. "Mothering Experiences: How Single Parenthood and Employment Structure the Emotional Valence of Parenting." Demography 53\(3\): 649-674.](#)

Research Using Eating & Health Module



Note: Data are for individuals, age 18 and older.

Source: Hamrick, Karen, USDA, Presentation for UMD 2016 Time Use Conference, College Park, MD

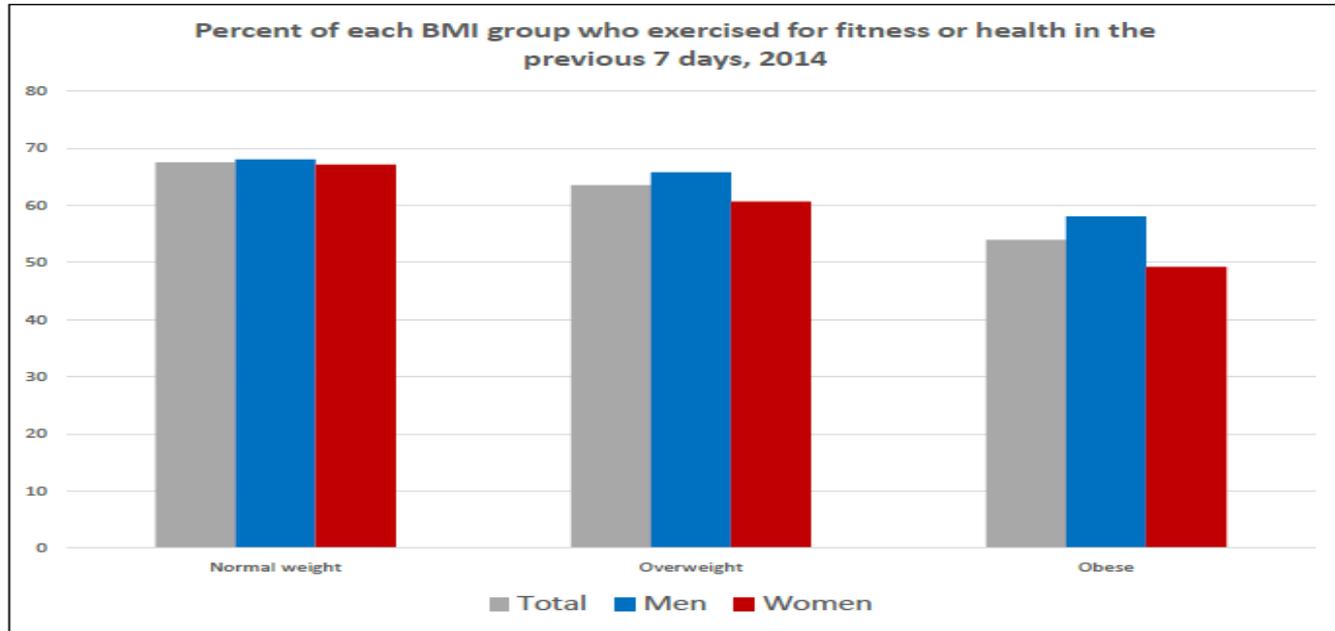
Health Measures in EH Module

- General health:
 - excellent, very good, good, fair, poor
- Height & weight
- Exercise:



During the past seven days, did you participate in any physical activities or exercises for fitness and health such as running, bicycling, working out in a gym, walking for exercise, or playing sports? How many times?

Research Using Eating & Health Module



Note: Data are for individuals, age 20 and older.

Source: Hamrick, Karen, USDA, Presentation for UMD 2016 Time Use Conference, College Park, MD

Rectangular Data: What they Look Like

→ P20060101060001020069990100100033845748596070730106010030000
P20060101060014020060130100100034790679057210330206010030000
P200601010600140200601302002000000000000000000014029902299
P200601010600140200601303003000000000000000000013019902299
P20060101060025020069990100100058251654273660320106010020000
P200601010600250200699902002000000000000000000033029902199
P20060101060033020060000100100051744472741660190206010030390
P200601010600330200600002002000000000000000000041020402499
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P20060101060038020069990100100063537485252870520201010010001
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P20060101060049020060000300300000000000000000000029902299

