

# IPUMS Time Use Workshop IATUR 2018

Sarah Flood, Minnesota Population Center (MPC) Ewa Jarosz, Centre for Time Use Research (CTUR) Liana Sayer, Maryland Time Use Lab, University of Maryland (UMD)





# Introduction



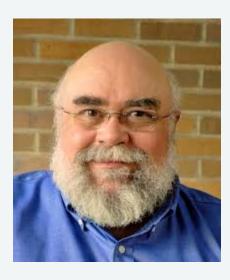
# **IPUMS Time Use Origins**



Katharine Abraham, UMD



Jonathan Gershuny, CTUR



Steve Ruggles, IPUMS





## **IPUMS Time Use Team**

University of Maryland & Maryland Population Research Center



Sandra Hofferth



Liana Sayer

University of Oxford & Centre for Time Use Research



Ewa Jarosz



Margarita Vega Rapun

University of Minnesota & Minnesota Population Center



Sarah Flood



Dan Backman





## **IPUMS** Time Use Archives

ATUS-X, AHTUS-X, MTUS-X

IPUMS provides census and survey data from around the world integrated ecross time and space. IPUMS integration and documentation makes it easy to study change, conduct comparative research, marge information across data tupos and analysis integrated within family and comparative research. Data and services available free of change.



U.S. Census and American Community Survey microdata from 1850 to the present.

VISIT SITE



Current Population Survey microdata including basic monthly surveys and supplements from 1982 to the present.

VISIT SITE



Census microdate covering 82 countries from 1980 to the present, IPLIMS NAPP offers microdate from the 19th and early 20th centuries.

VISIT SITE

#### RESEARCH AWARDS

Submissions for IPUMS Research Award are

ROWSE PREVIOUS AWARD
WINNERS

— SUPPORT IPUMS ——
Your financial support helps us bring research data to you.

DONATE TODAY

### IPUMS DHS

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

VISIT SITE



Tabular U.S. Census data and GIS boundary files from 1790 to the present.

VISIT SITE



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

VISIT SITE

#### - CALENDAR

APRIL 27, 2017

Population Association of America

Hilton Chicago

JUNE 25-27, 2017

Academy Health

Hyatt Regency, New Orleans, LA

JULY 16-21, 2017

61st ISI World Statistics Congress (WSC)

Marrakech, Morocco

VIEW MORE EVENTS

IOPE

## IPUMS TIME USE

Historical and contemporary time use data from 1985 to the present.

VISIT SITE



Health survey data from the National Health Interview Survey from the 1980s to the gresent.

VISIT SITE



Survey data on the science and engineering workforce in the U.S. from 1993 to the gresent.

VISIT SITE

http://www.ipums.org/



#### IPUMS.ORG | ATUS | AHTUS | MTUS











### 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















## **IPUMS Time Use**

- American Time Use Survey Extract Builder (ATUS-X)
  - 2003+ data on time use in the U.S.
- American Heritage Time Use Study Extract Builder (AHTUS-X)
  - 1965-2012 data on time use in the U.S.
- Multinational Time use Study Extract Builder (MTUS-X)
  - international data on time use available in partnership with the Centre for Time Use Research, University of Oxford, Oxford, UK.
- Key differences
  - Contents (countries, years of data)
  - Variable coding





# CTUR IPUMS Time Use Initiatives

Ewa Jarosz, CTUR



## What we do?

- 1980 the beginning of MTUS
- 1965 oldest dataset
- 2014/2015 most recent dataset



# Data acquisition

- Formalities
- Limitations to dissemination
- How about getting your own data?





## Data formats

Wide slot

Stacked slot

Wide episodic

Stacked episodic

+ some other formats





## Harmonization

- Activities
- Background variables



## MTUS-X

- Multinational Time use Study Extract Builder (MTUS-X)
  - International data on time use available in partnership with the Centre for Time Use Research, University of Oxford, Oxford, UK.





# Currently Available via MTUS-X

- Austria
- Bulgaria
- Canada
- Finland
- France
- Hungary
- Israel

- Netherlands
- Spain
- United Kingdom
- United States



## Planned Additions to MTUS-X

- Brazil
- Germany
- India
- Italy

- Mexico
- South Africa (2)- 2019
- South Korea (3)- 2019
- Turkey



# MPC IPUMS Time Use Initiatives

Sarah Flood



# Web-Based Data Access System

- Lowers barriers to access and simplifies use of complex time diary data
- Delivers
  - CTUR-harmonized data
  - Customized data extracts
  - User-defined time use variables
  - Dataset and variable-level documentation
  - Variable-level frequencies





## **Customized Data Extracts**

- Easily combine data from multiple countries and years
- Include only the variables you need for your analysis
  - Sociodemographic characteristics of individuals and households
  - User-defined measures of time in specific activity aggregations (e.g. time use variables)
- Choice of multiple formats
- IPUMS saves extract definitions for easy revision





# Creating Time Use Variables

- Key feature of IPUMS Time Use
- Researchers
  - Summarize time use from the time diary as they wish
  - Avoid manipulating diary data
- System
  - Creates time use variable for each diarist based on researcher definitions and puts on diarist records
  - Saves variable definitions for future use





## 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





## Work Time Use Measures

- Paid work
  - Employment
  - Job commute?
  - Education related to work?
- Unpaid Work
  - Housework
  - Care Work
  - Volunteering?
- Can differentiate by when and where people work





# Additional MPC Responsibilities

- Maintain and support IPUMS Time Use systems
- Add more CTUR data to MTUS-X
- Develop and support online data analysis capabilities
- Email helpline: <a href="mailto:ipums@umn.edu">ipums@umn.edu</a>





# Overview: Comparative Time-Diary Research

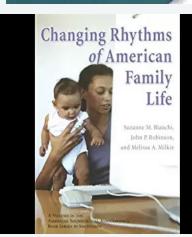
Liana C. Sayer, UMD



# Comparative & Historical Analyses

- Cultural & Economic Transformations impact individual family lives
  - Gershuny 2000
    - 3 convergences: nation, gender, class
    - Declining paid work + more leisure
  - Bianchi, Robinson, Milkie 2006
    - Growing inequality in family time budgets
    - More time with children
      - Less time for adult leisure, sleep









# **Gendered Division of Labor**

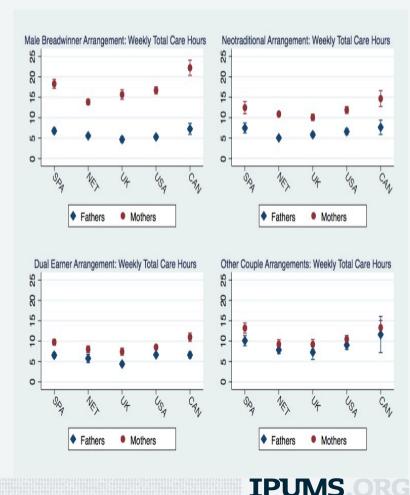
- Stalled (?) Gender Revolution Literature
  - Craig 2007; 2006; Craig & Mullan 2012; 2011; Kan, Sullivan & Gershuny 2011; Hook 2010; 2006; Sayer & Gornick 2011; Sullivan 2013; 2011; 2006; Sullivan, Gershuny, Robinson, 2018; Treas & Drobnic 2010
- Women changed time use patterns more than men
- Significant cultural variation
  - In work-family arrangements of parents w/young children
  - In levels of housework and child care
  - In men's involvement in housework and child care
- Inequalities in workloads for "Second Shift" mothers
- Gendered D of L varies by education
- Still unknown: Why did gender revolution stall in 1990s?





# Stalled Gender Revolution Questions

- Workload
  - Objective: paid + unpaid
- Time Pressures
  - Feelings: rushed, stressed, overloaded
- Family Well-Being
- Gender Inequality





## Leisure

- Less total but more quality leisure for highly educated (Gershuny 2000; Sevilla, Gimenez-Nadal, & Gershuny, 2012; Sayer 2018)
- Cross-national variation in influence of structural and cultural factors on leisure time and type
  - Linked with educational gradient in parenting practices (Altintas 2016; Pepin, Sayer, & Casper 2018; Craig & Mullan 2013; 2012);









## Women's Leisure



- ✓ Fragmented leisure
- ✓ Multitasking leisure
- ✓ More frequent activity "switches"
- More stress



# **Navigating MTUS-X**

Sarah Flood, MPC



## Online Demo

- Registration
- Viewing documentation
- Making an extract
- Creating a time use variable
- Downloading data
- Getting help







# **MTUS-X Practice**



HOME | SELECT DATA | MY DATA | FAQ | HELP













#### **PROJECT**

ABOUT MTUS-X

ABOUT MTUS

- PARTNERS -

REGISTRATION

#### DATA

BUILD AN EXTRACT

DOWNLOAD/REVISE EXTRACTS

TIME USE VARIABLES

### DOCUMENTATION

SAMPLES

SOURCE DOCUMENTS

VARIABLES

FAO

REVISIONS

#### RESEARCH

CITATION AND USE

RIBLIOGRAPHY

TRAINING MATERIALS

### MULTINATIONAL TIME USE STUDY EXTRACT BUILDER

MTUS is a collection of time diary data from a growing number of countries that are harmonized for compatibility across time and space. MTUS-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.

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

CREATE AN EXTRACT

Get Data

OTHER TIME USE EXTRACT BUILDERS

ATUS

**AHTUS** 

#### WHAT IS IPUMS?

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.