raport PISA 1/1

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Abstract

Influence of mother's working situation on daughters' views on career benefits of learning mathematics and on their own math abilities. Based on data from PISA2012, a survey which tested 15-year-olds in reading, mathematics and science focusing on mathematics in 2012.

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CONTEXT

A new working paper by Kathleen McGinn and her colleagues for Harvard Business School purports that working mothers are more likely to raise successful daughters.

"THERE ARE VERY FEW THINGS...THAT HAVE SUCH A CLEAR EFFECT ON GENDER INEQUALITY AS BEING RAISED BY A WORKING MOTHER."

Kathleen L. McGinn, the Cahners-Rabb Professor of Business Administration at Harvard Business School

ANALYSIS

We picked girls' responses to two specific questions and looked at it from a perspective of their mothers' working situation. Mother's working situation could be defined as one of the following: working full time (for pay), working part time (for pay), not working, but looking for a job or other (e.g. home duties).

The two chosen questions were statements to which the girls needed to state to what extent they apply to them. Response scale had 4 following levels: strongly agree, agree, disagree, strongly disagree. First statement concerned the feeling about the usefullness of mathematics in their future career and read: "Learning mathematics is worthwhile for me because it will improve my career". The second was about the level of confidence the girls have in their own math abilities: "If I wanted to, I could do well in mathematics".

An interesting result was that the group who tends to have the most differing results are girls whose mothers work part-time.

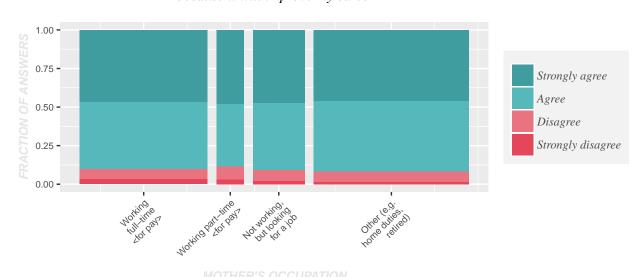
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Albania ANALYSIS

Albania

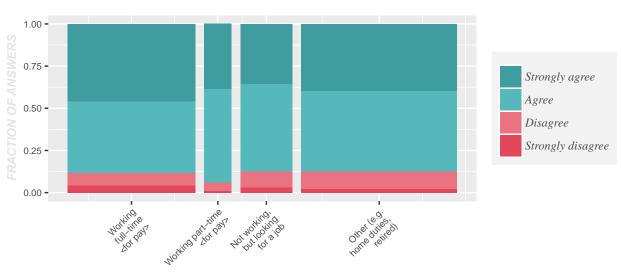
MATH AND CAREER

Learning mathematics is worthwhile for me because it will improve my career



MATH CONFIDENCE

If I wanted to, I could do well in mathematics



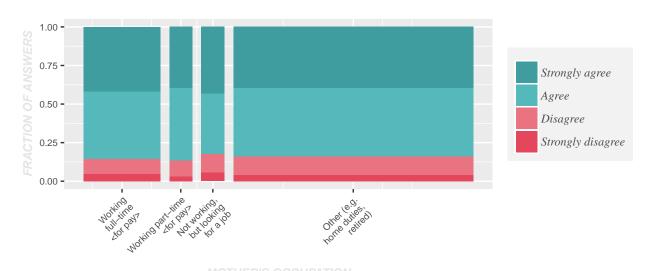
MOTHER'S OCCUPATION

United Arab Emirates ANALYSIS

United Arab Emirates

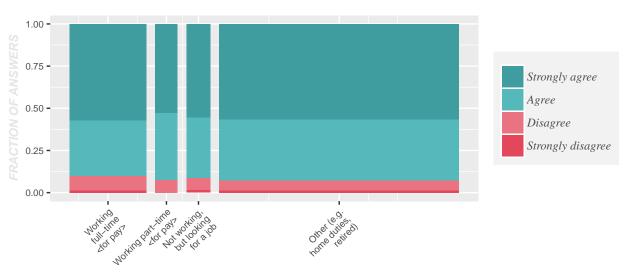
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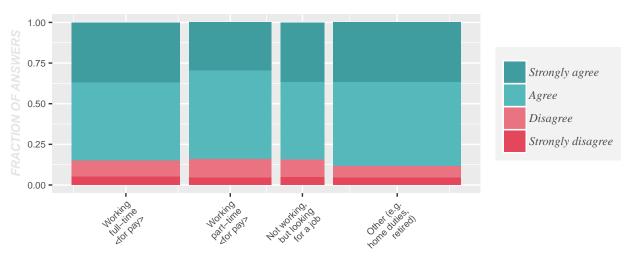
MOTHER'S OCCUPATION

Argentina ANALYSIS

Argentina

MATH AND CAREER

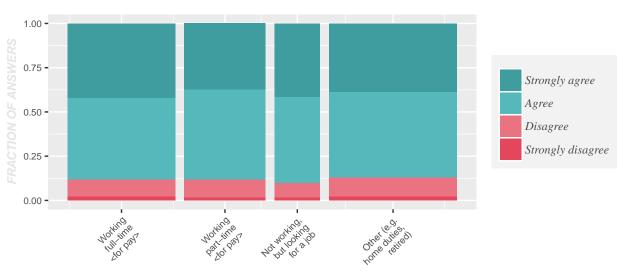
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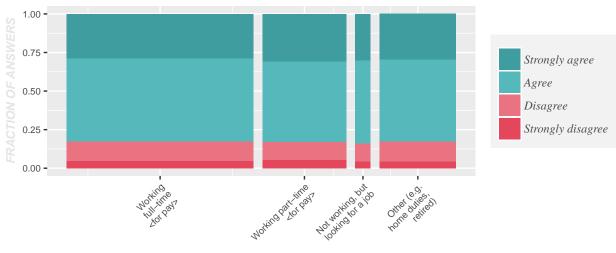
MOTHER'S OCCUPATION

Australia ANALYSIS

Australia

MATH AND CAREER

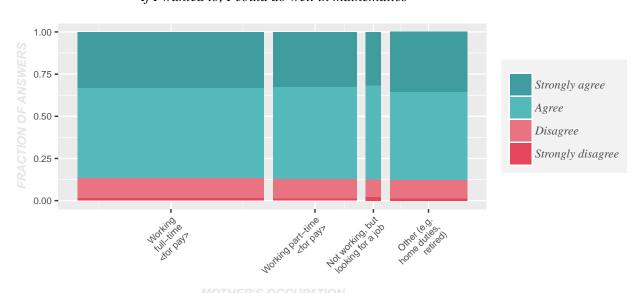
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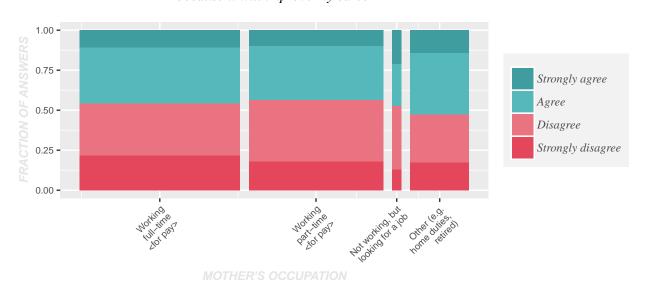


Austria ANALYSIS

Austria

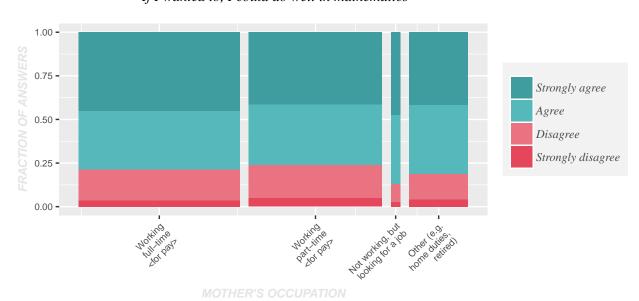
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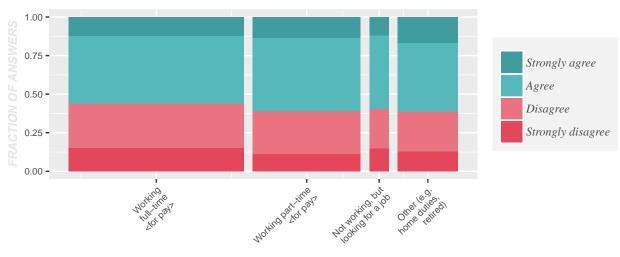
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Belgium ANALYSIS

Belgium

MATH AND CAREER

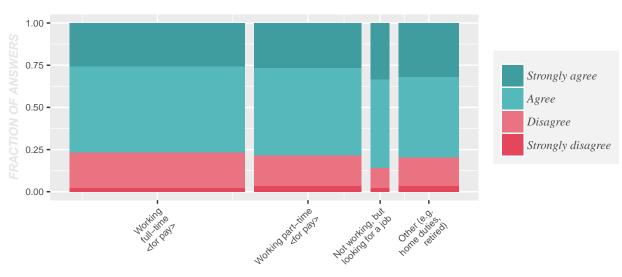
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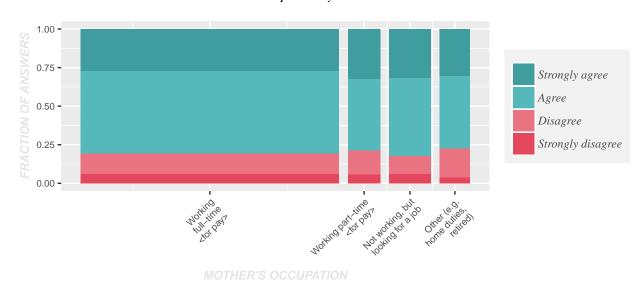
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Bulgaria ANALYSIS

Bulgaria

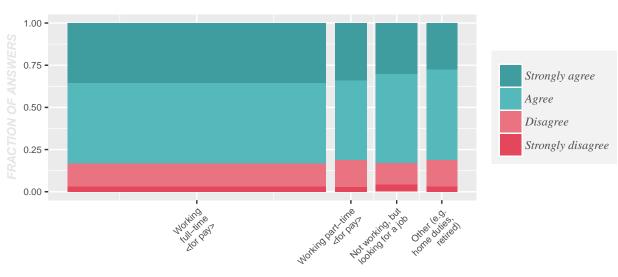
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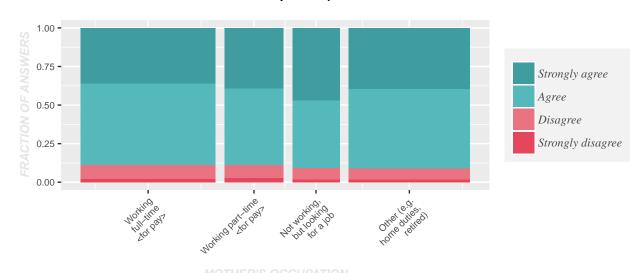
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Brazil ANALYSIS

Brazil

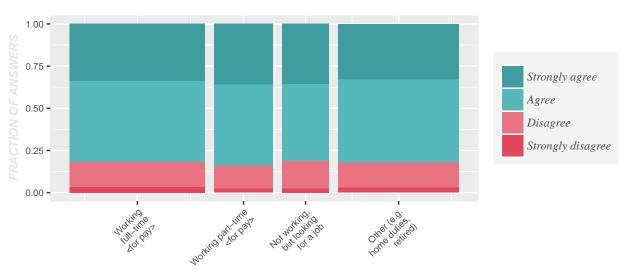
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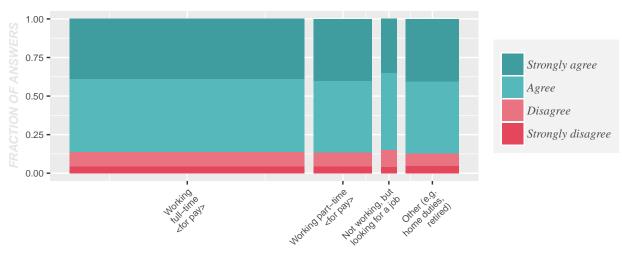
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Canada ANALYSIS

Canada

MATH AND CAREER

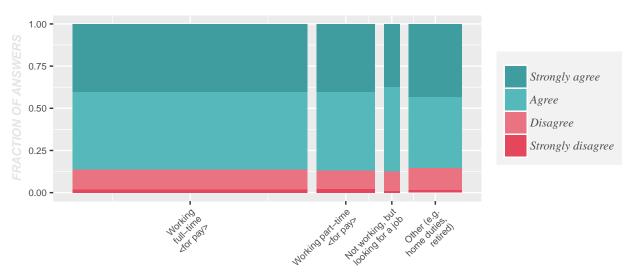
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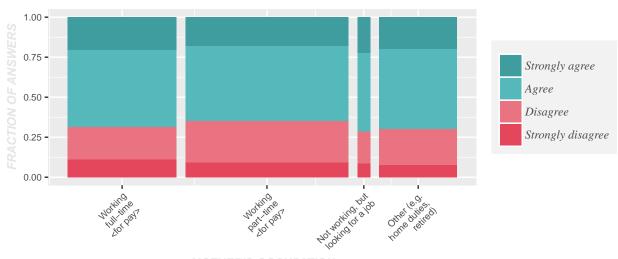
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Switzerland ANALYSIS

Switzerland

MATH AND CAREER

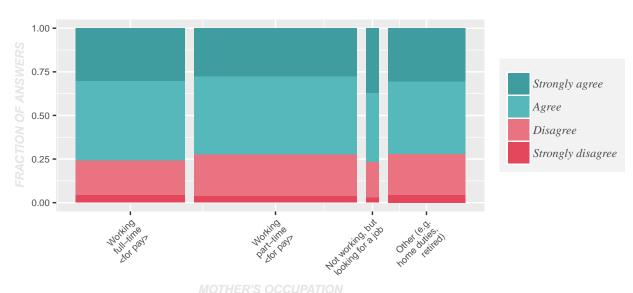
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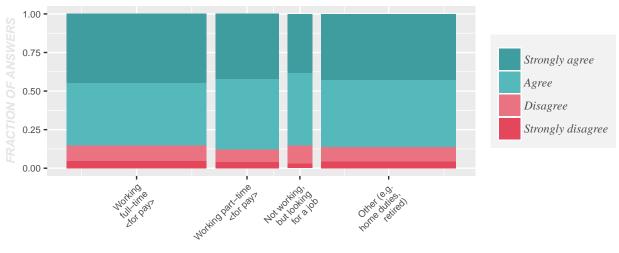


Chile ANALYSIS

Chile

MATH AND CAREER

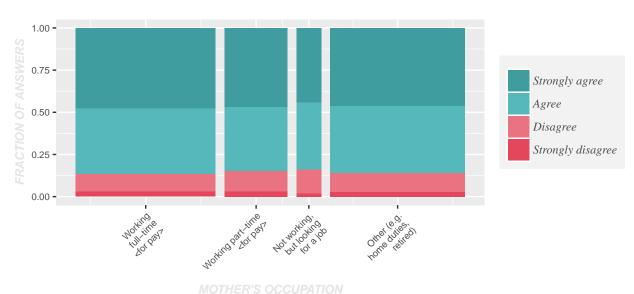
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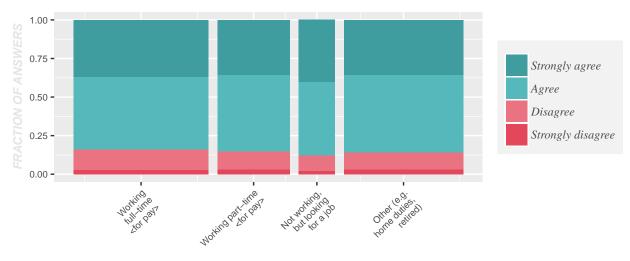


Colombia ANALYSIS

Colombia

MATH AND CAREER

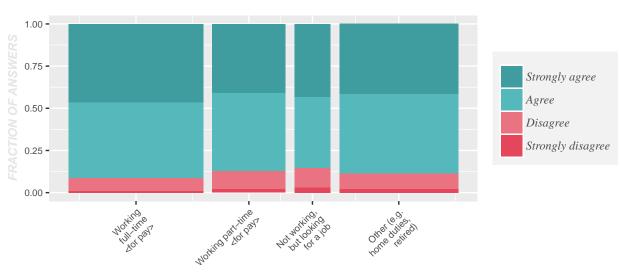
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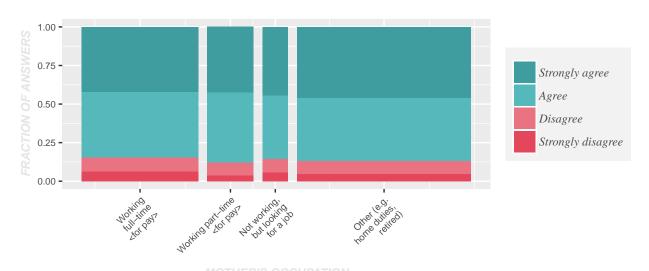
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Costa Rica ANALYSIS

Costa Rica

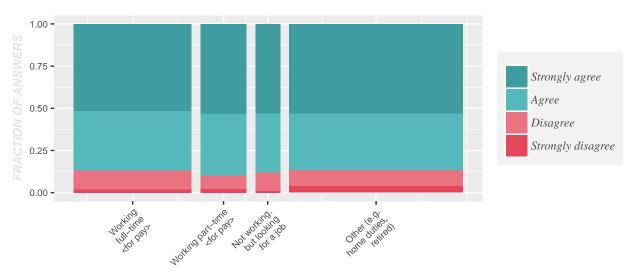
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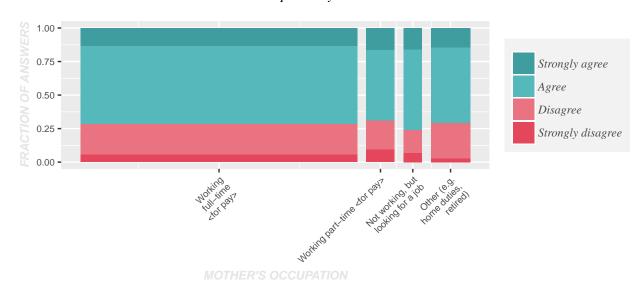
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Czech Republic ANALYSIS

Czech Republic

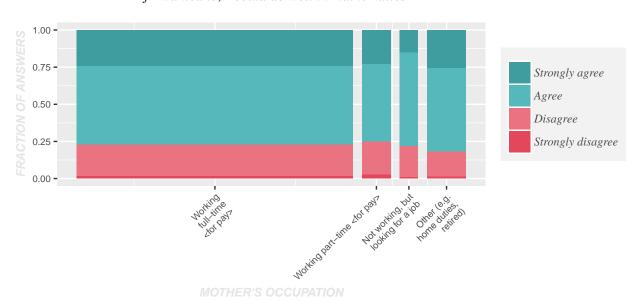
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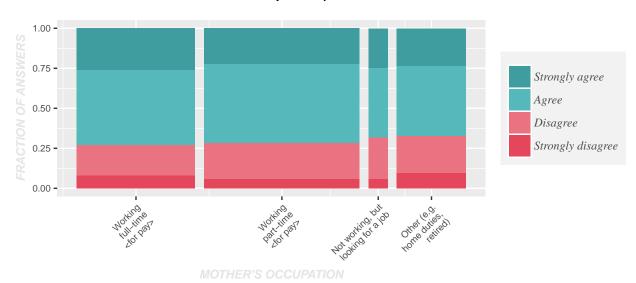


Germany ANALYSIS

Germany

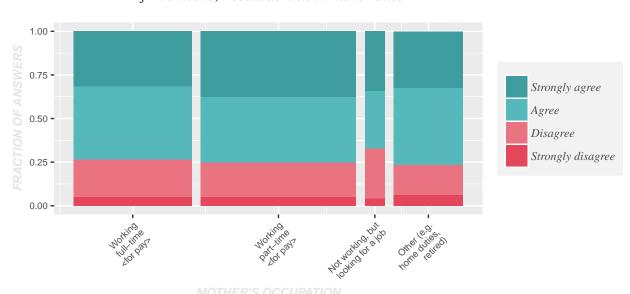
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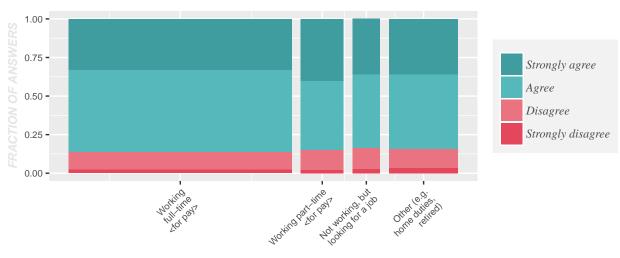


Denmark ANALYSIS

Denmark

MATH AND CAREER

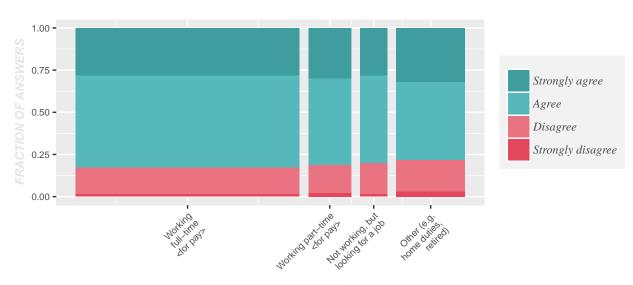
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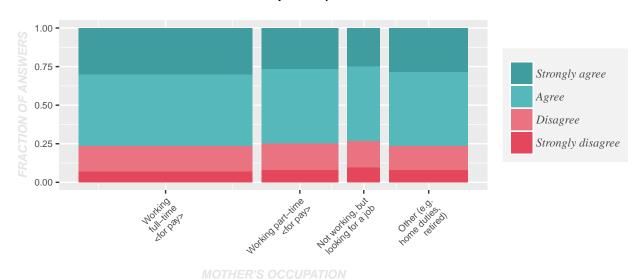
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Spain ANALYSIS

Spain

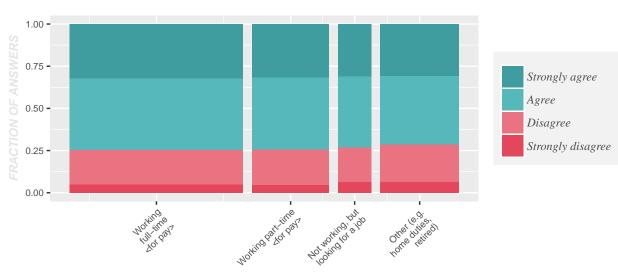
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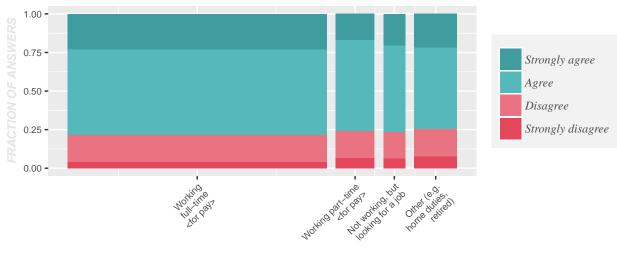
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Estonia ANALYSIS

Estonia

MATH AND CAREER

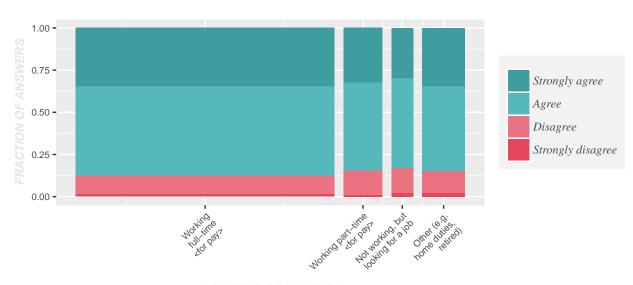
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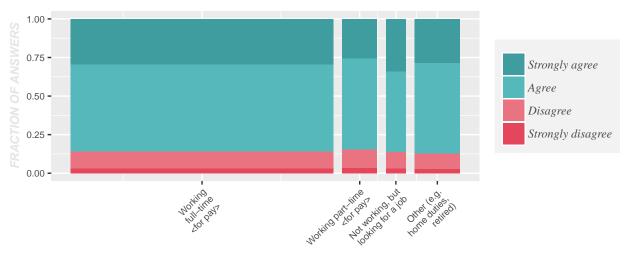
MOTHER'S OCCUPATION

Finland ANALYSIS

Finland

MATH AND CAREER

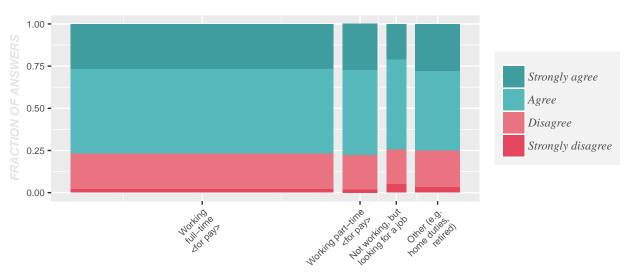
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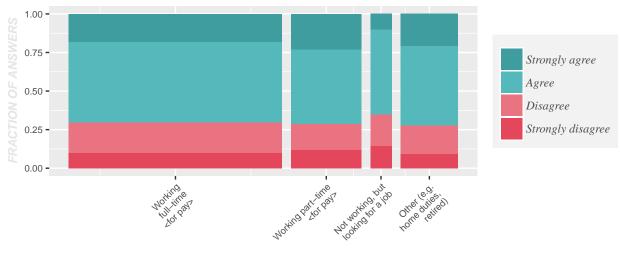
MOTHER'S OCCUPATION

France ANALYSIS

France

MATH AND CAREER

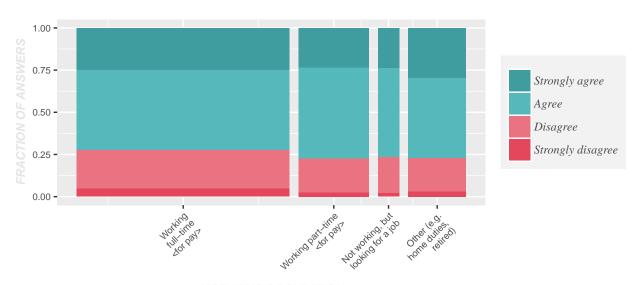
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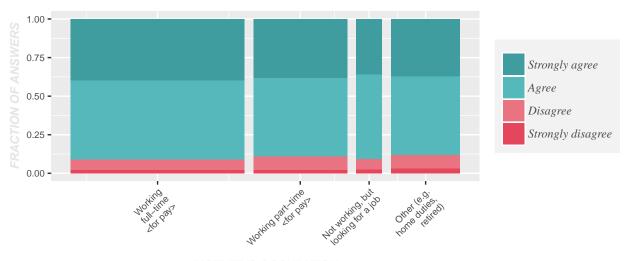
MOTHER'S OCCUPATION

United Kingdom ANALYSIS

United Kingdom

MATH AND CAREER

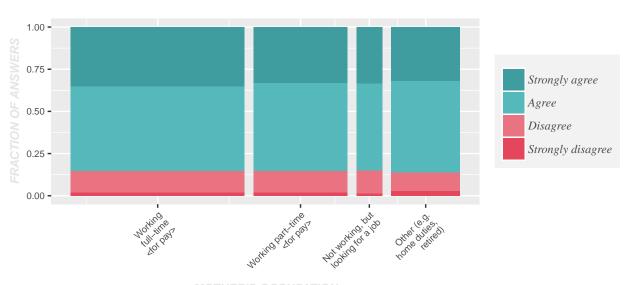
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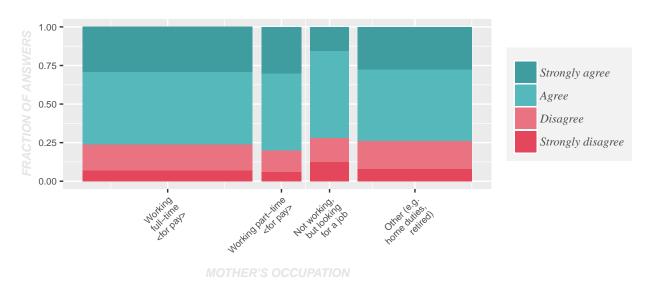
MOTHER'S OCCUPATION

Greece ANALYSIS

Greece

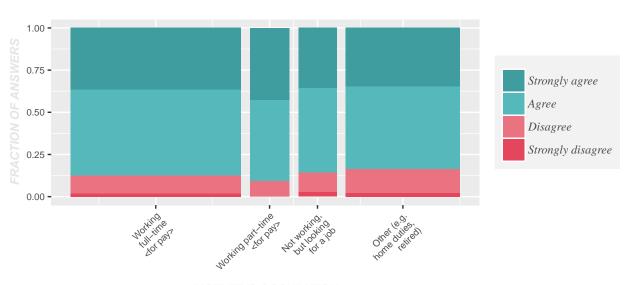
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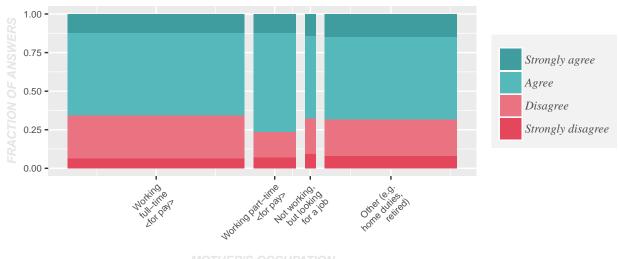


Hong Kong-China ANALYSIS

Hong Kong-China

MATH AND CAREER

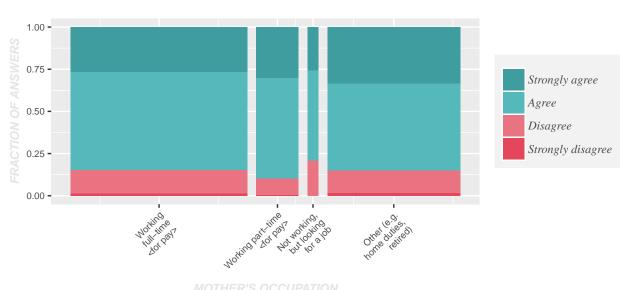
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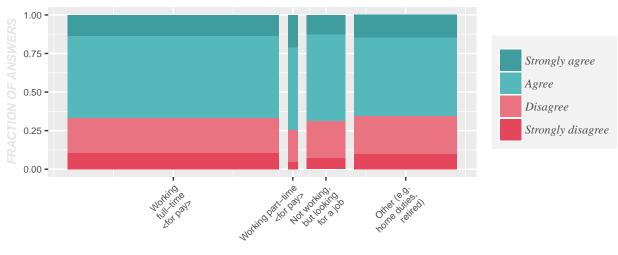
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Croatia ANALYSIS

Croatia

MATH AND CAREER

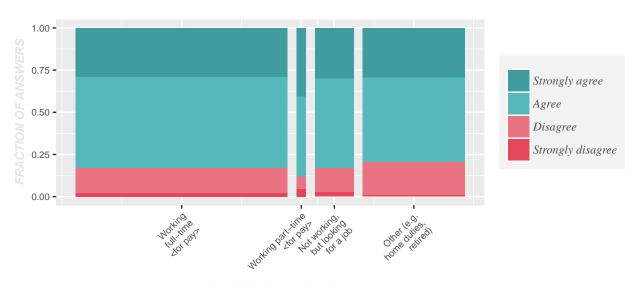
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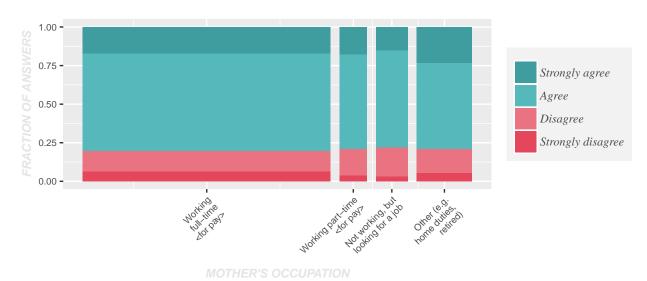
Hungary

ANALYSIS

Hungary

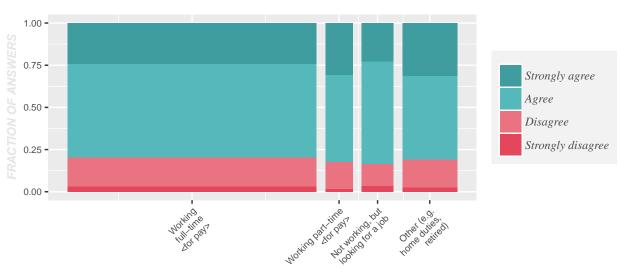
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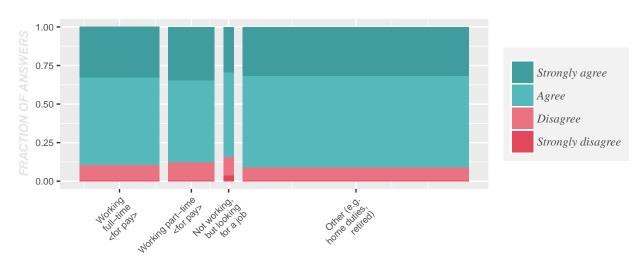
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ANALYSIS Indonesia

Indonesia

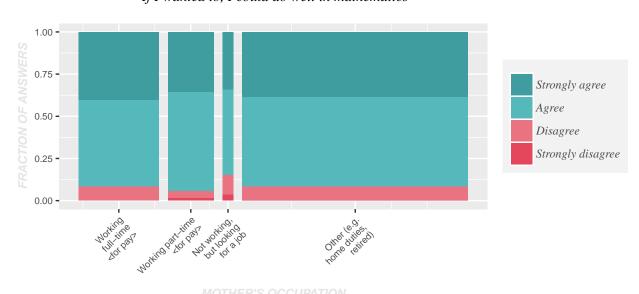
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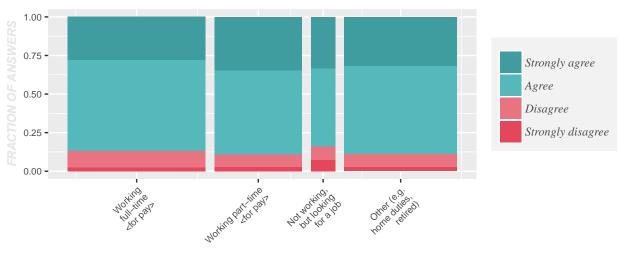


Ireland ANALYSIS

Ireland

MATH AND CAREER

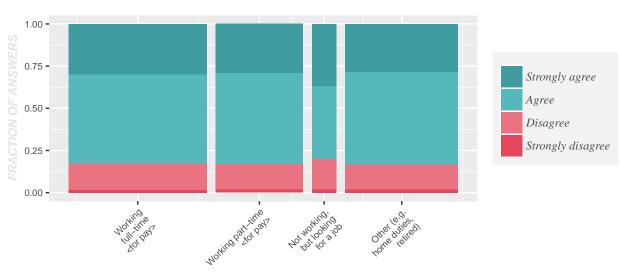
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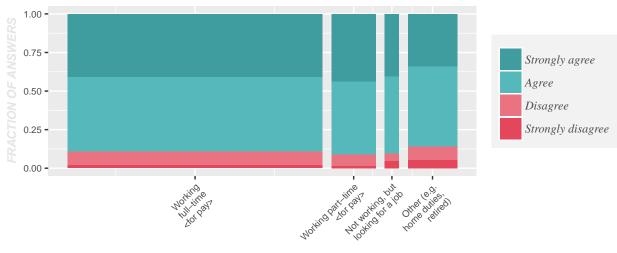
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Iceland ANALYSIS

Iceland

MATH AND CAREER

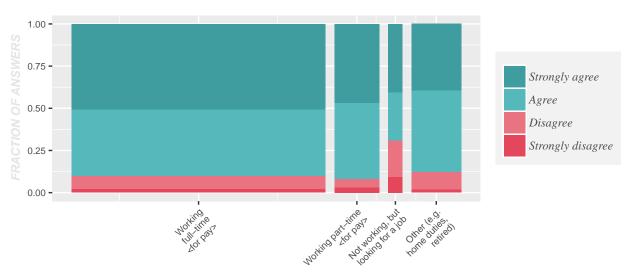
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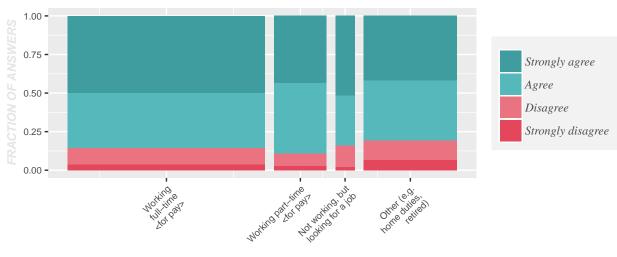
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Israel ANALYSIS

Israel

MATH AND CAREER

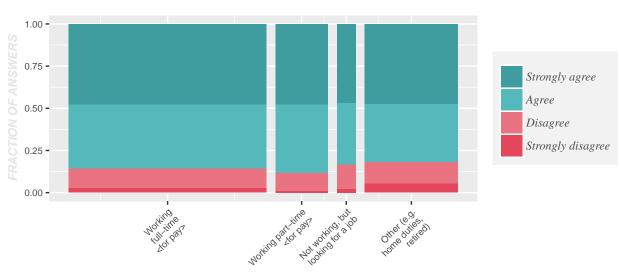
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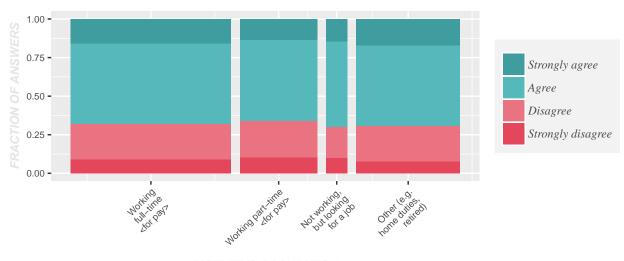
MOTHER'S OCCUPATION

Italy ANALYSIS

Italy

MATH AND CAREER

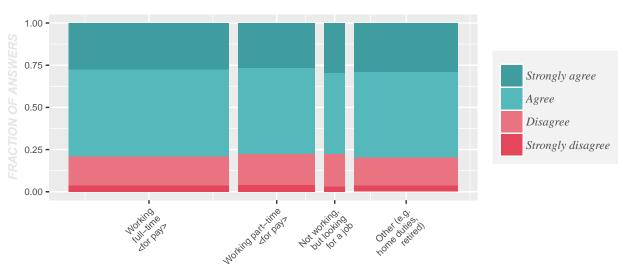
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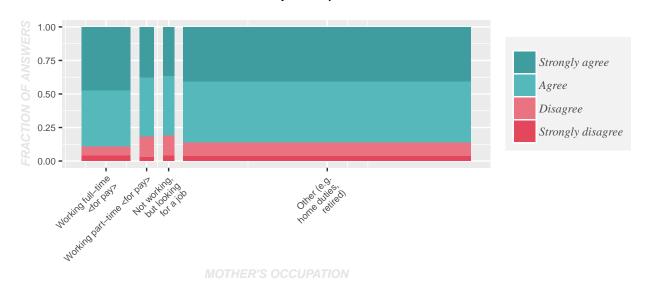
MOTHER'S OCCUPATION

Jordan ANALYSIS

Jordan

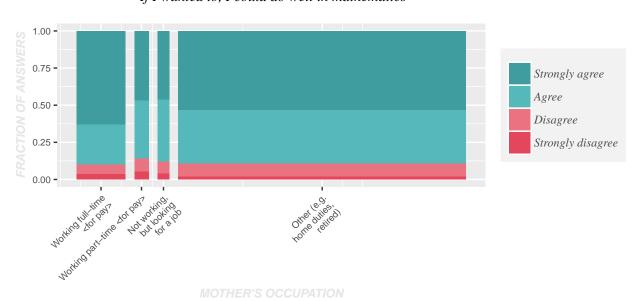
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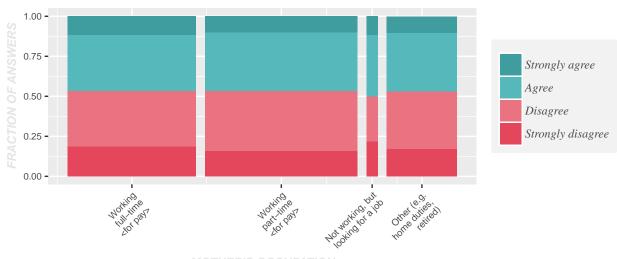


Japan ANALYSIS

Japan

MATH AND CAREER

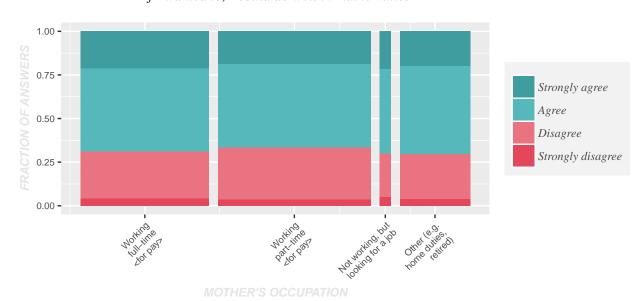
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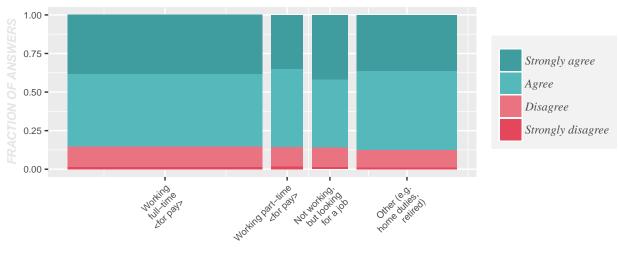


Kazakhstan ANALYSIS

Kazakhstan

MATH AND CAREER

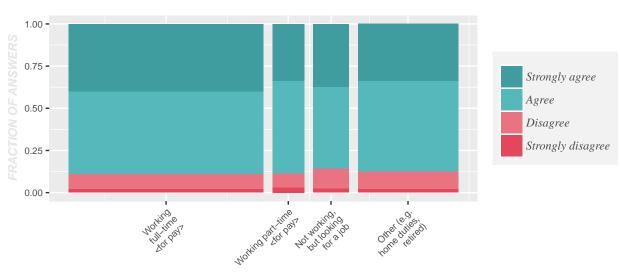
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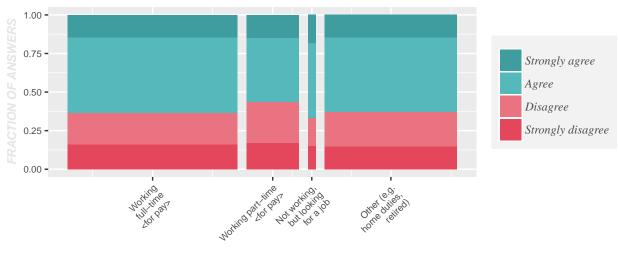
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Korea ANALYSIS

Korea

MATH AND CAREER

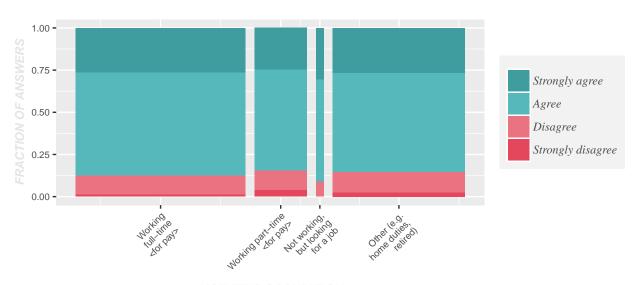
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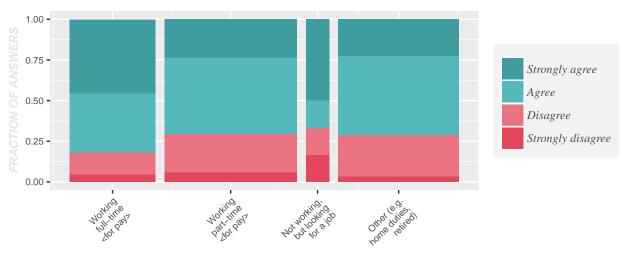
MOTHER'S OCCUPATION

Liechtenstein ANALYSIS

Liechtenstein

MATH AND CAREER

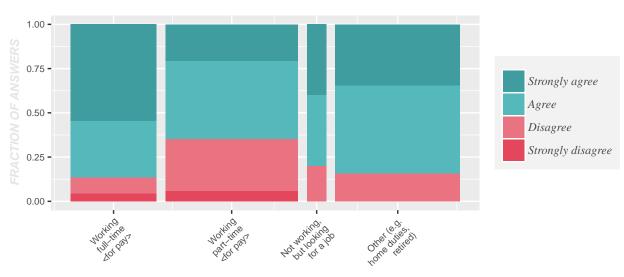
Learning mathematics is worthwhile for me because it will improve my career



MOTHER'S OCCUPATION

MATH CONFIDENCE

If I wanted to, I could do well in mathematics



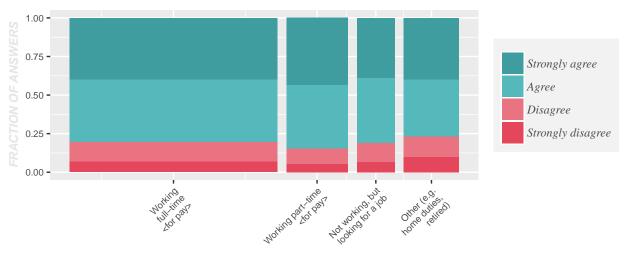
MOTHER'S OCCUPATION

Lithuania ANALYSIS

Lithuania

MATH AND CAREER

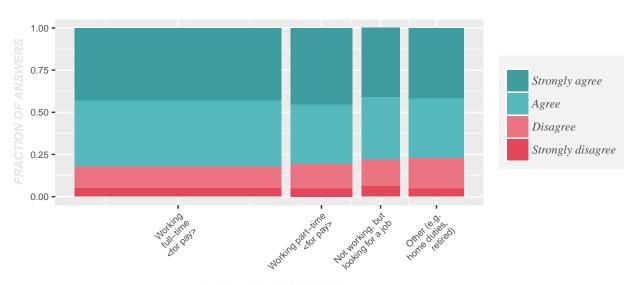
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MATH CONFIDENCE

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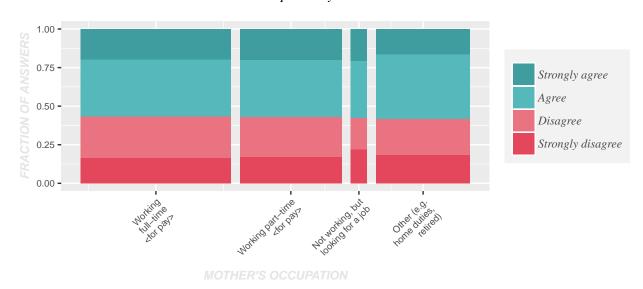
MOTHER'S OCCUPATION

Luxembourg ANALYSIS

Luxembourg

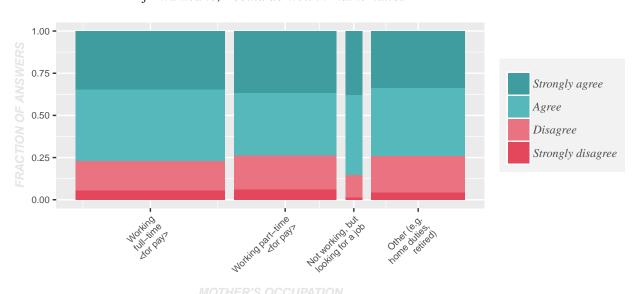
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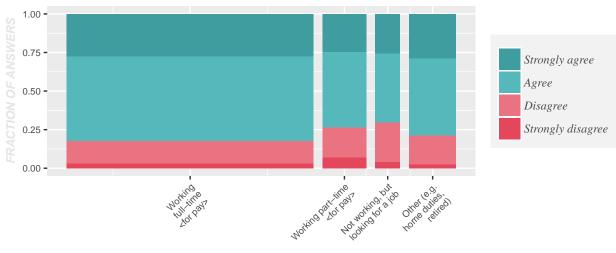


Latvia ANALYSIS

Latvia

MATH AND CAREER

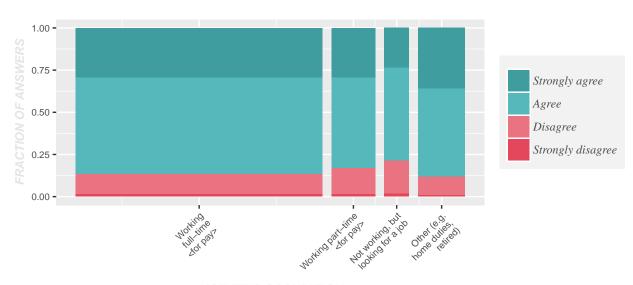
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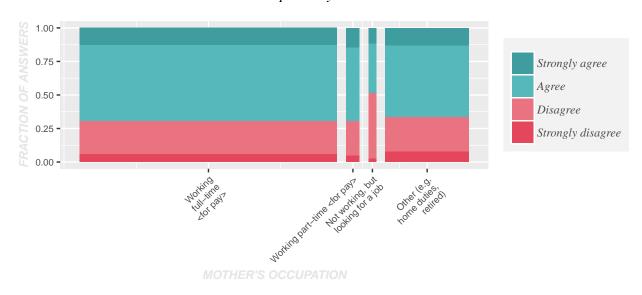
MOTHER'S OCCUPATION

Macao-China ANALYSIS

Macao-China

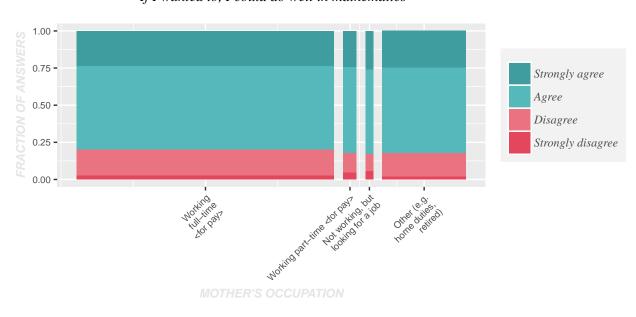
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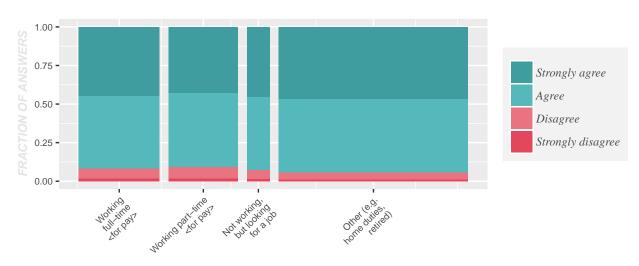


Mexico ANALYSIS

Mexico

MATH AND CAREER

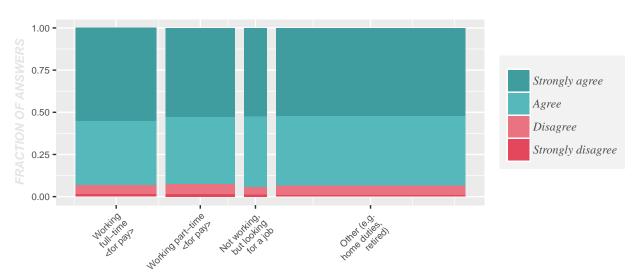
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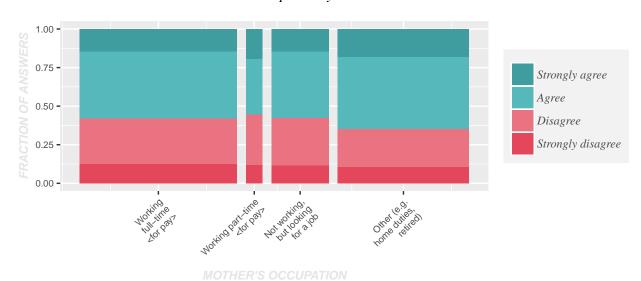
MOTHER'S OCCUPATION

Montenegro ANALYSIS

Montenegro

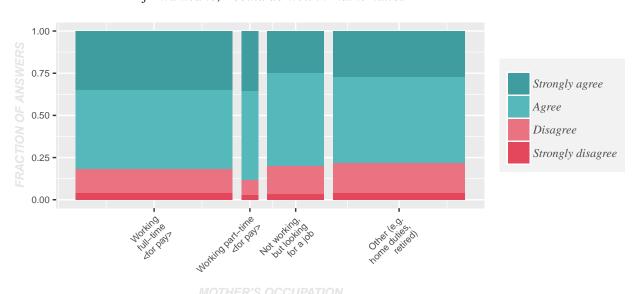
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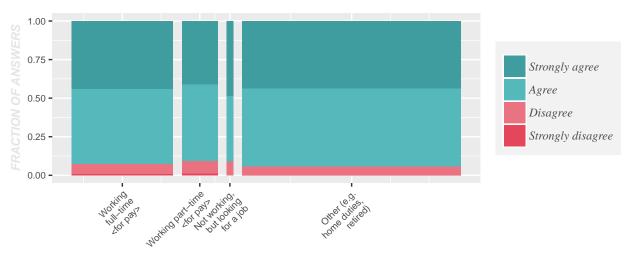


Malaysia ANALYSIS

Malaysia

MATH AND CAREER

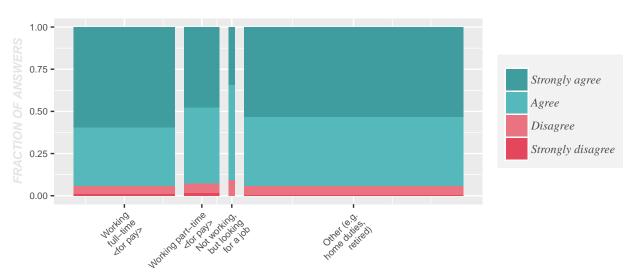
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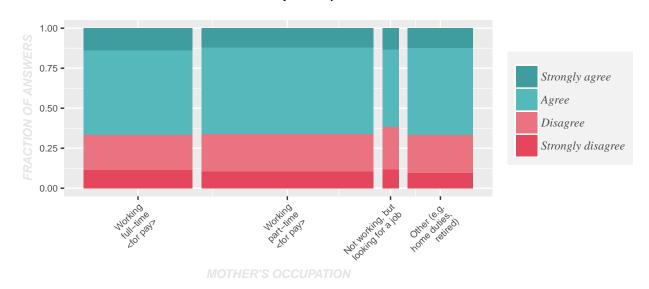
MOTHER'S OCCUPATION

Netherlands ANALYSIS

Netherlands

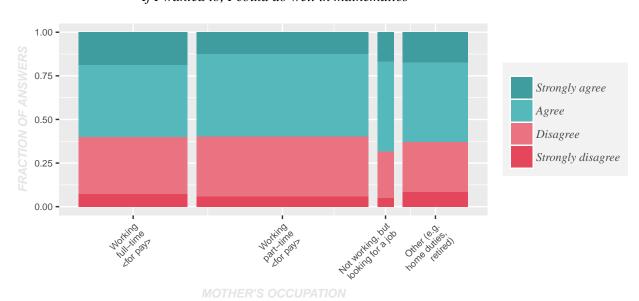
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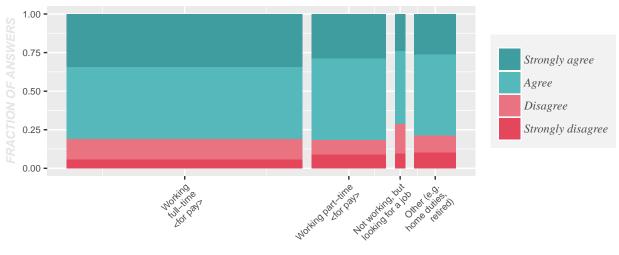


Norway

Norway

MATH AND CAREER

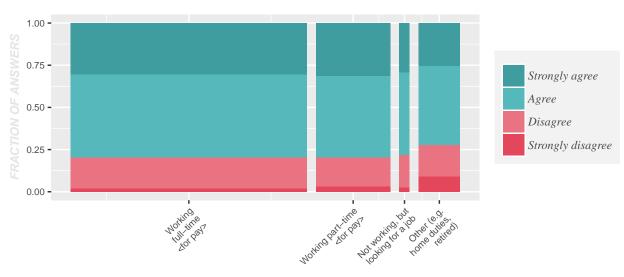
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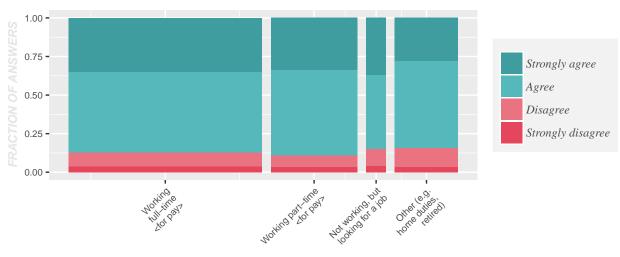
MOTHER'S OCCUPATION

New Zealand ANALYSIS

New Zealand

MATH AND CAREER

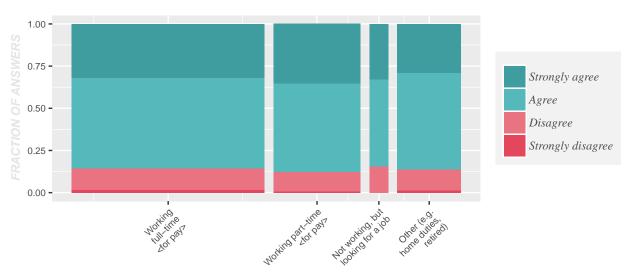
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MATH CONFIDENCE

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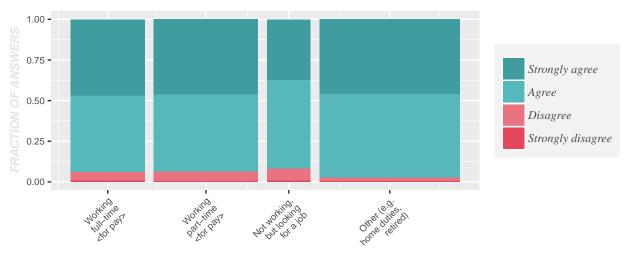
MOTHER'S OCCUPATION

Peru ANALYSIS

Peru

MATH AND CAREER

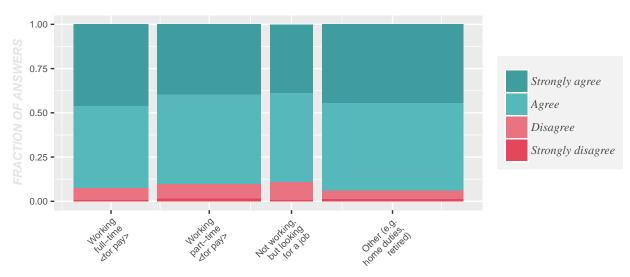
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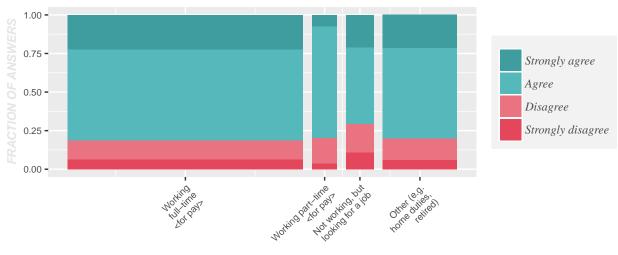
MOTHER'S OCCUPATION

Poland ANALYSIS

Poland

MATH AND CAREER

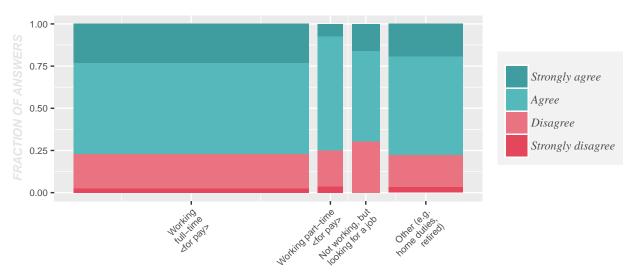
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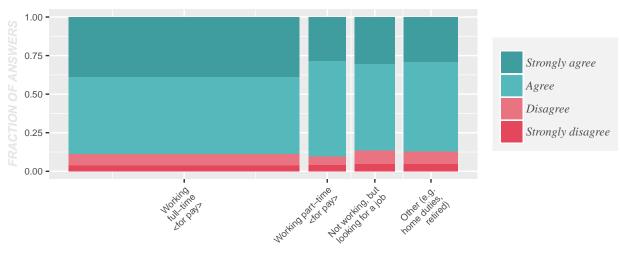
MOTHER'S OCCUPATION

Portugal ANALYSIS

Portugal

MATH AND CAREER

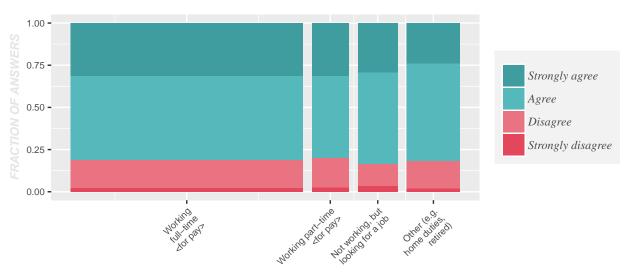
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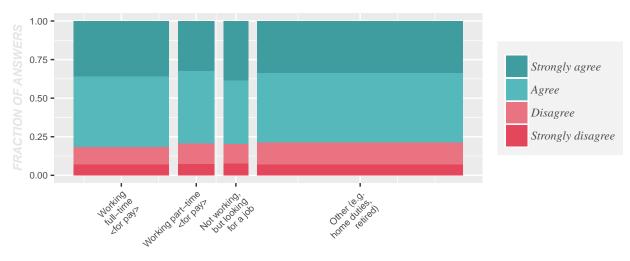
MOTHER'S OCCUPATION

ANALYSIS Qatar

Qatar

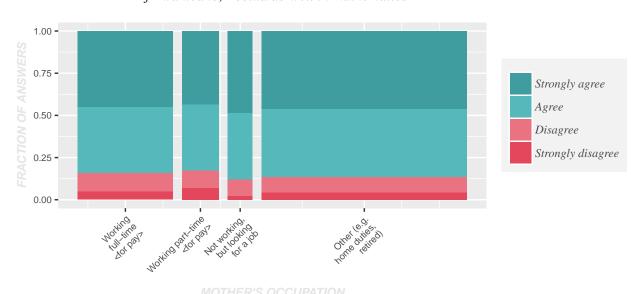
MATH AND CAREER

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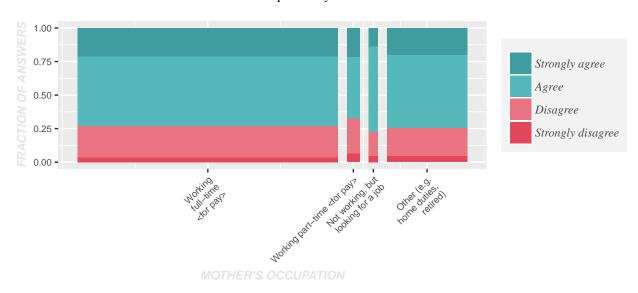


China-Shanghai ANALYSIS

China-Shanghai

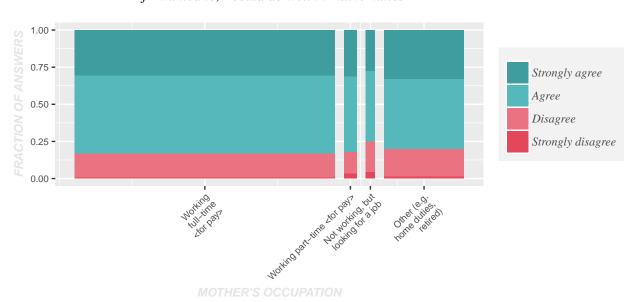
MATH AND CAREER

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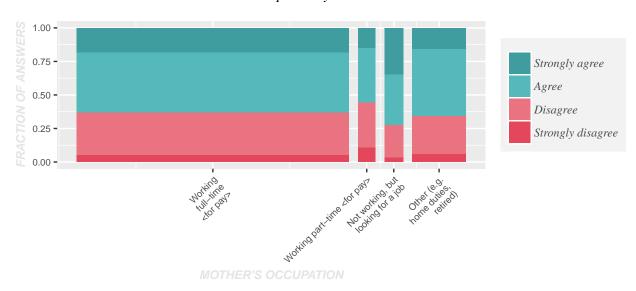
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Perm(Russian Federation)

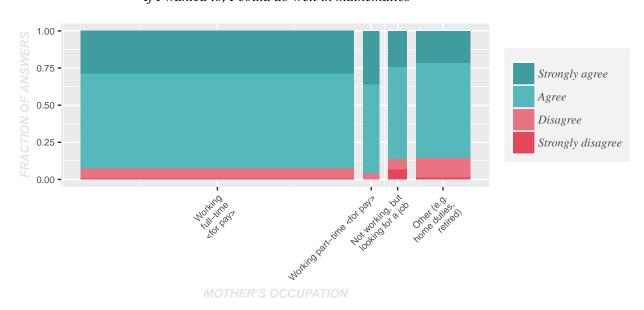
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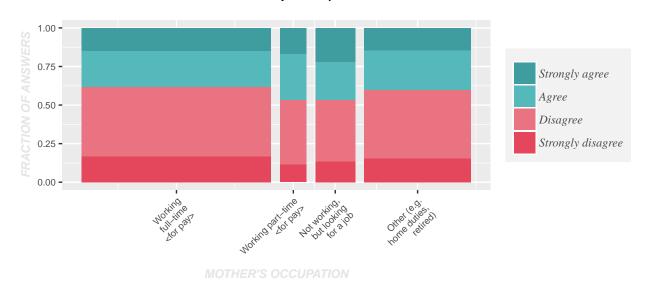


Romania ANALYSIS

Romania

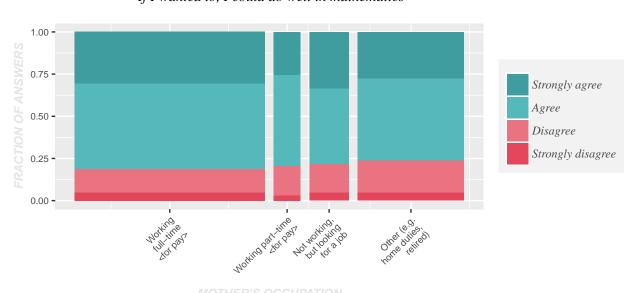
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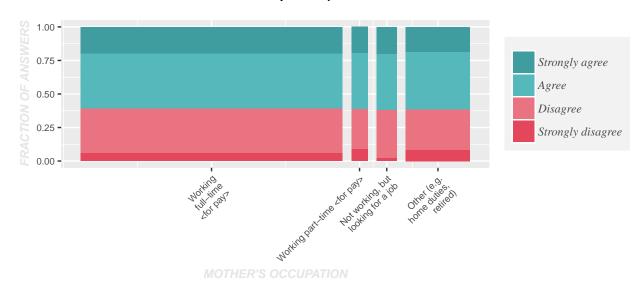


Russian Federation ANALYSIS

Russian Federation

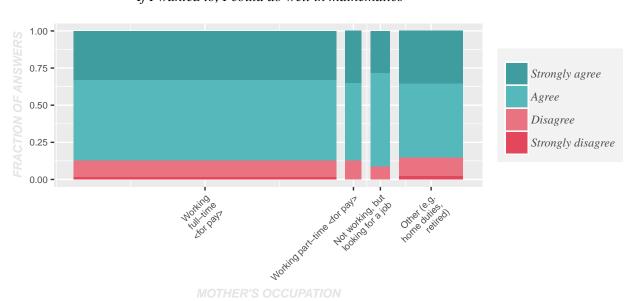
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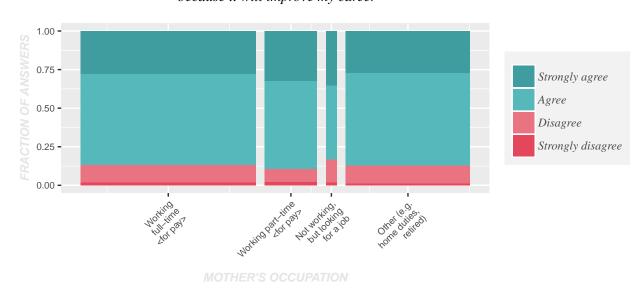


Singapore ANALYSIS

Singapore

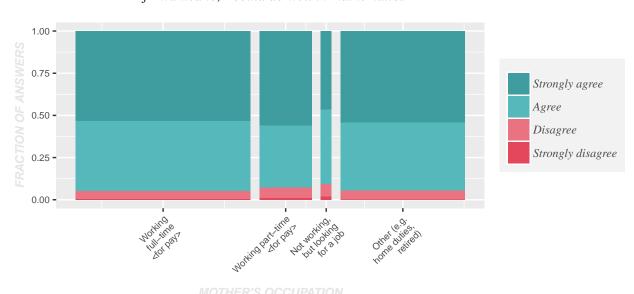
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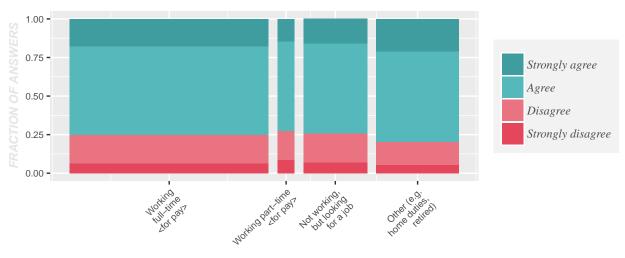


Serbia ANALYSIS

Serbia

MATH AND CAREER

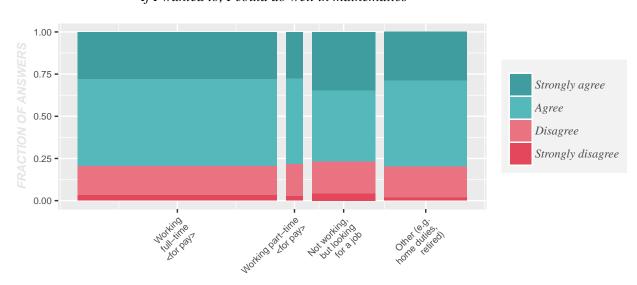
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MOTHER'S OCCUPATION

MATH CONFIDENCE

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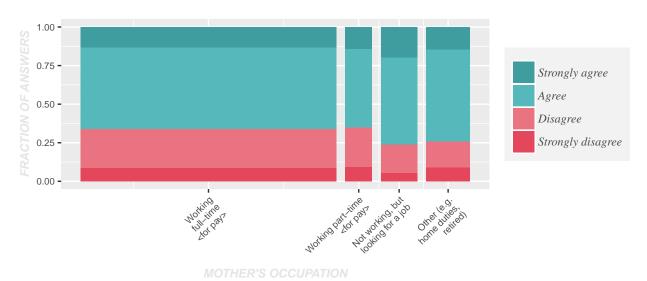


Slovak Republic ANALYSIS

Slovak Republic

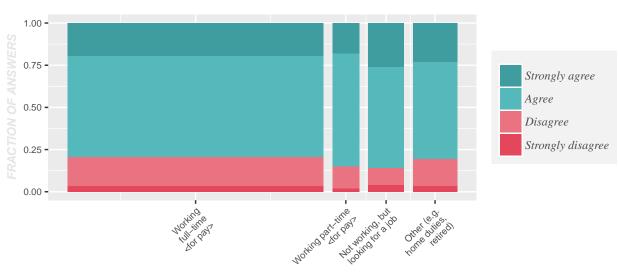
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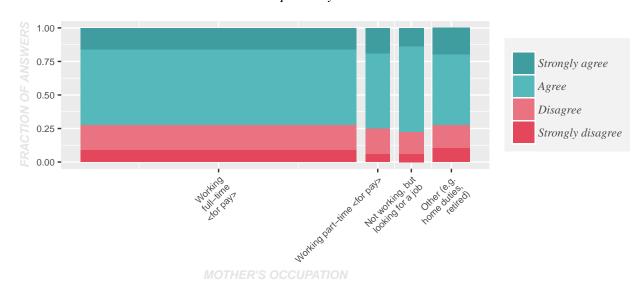
MOTHER'S OCCUPATION

Slovenia ANALYSIS

Slovenia

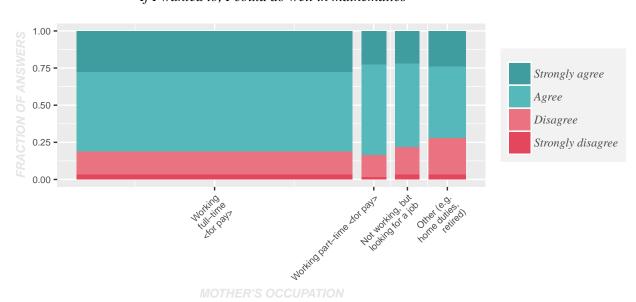
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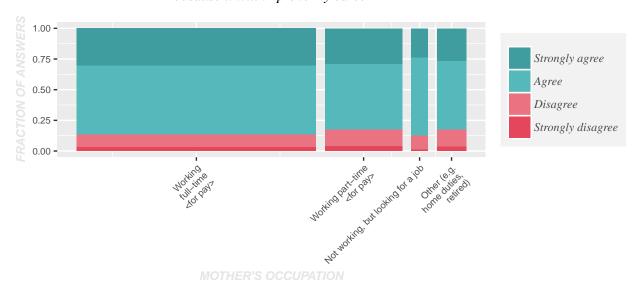


Sweden ANALYSIS

Sweden

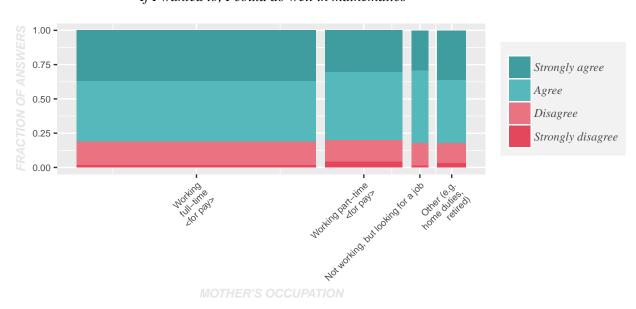
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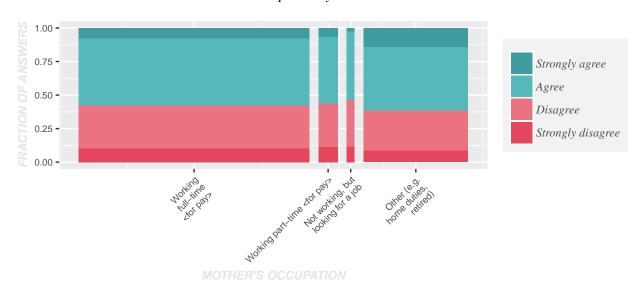


Chinese Taipei ANALYSIS

Chinese Taipei

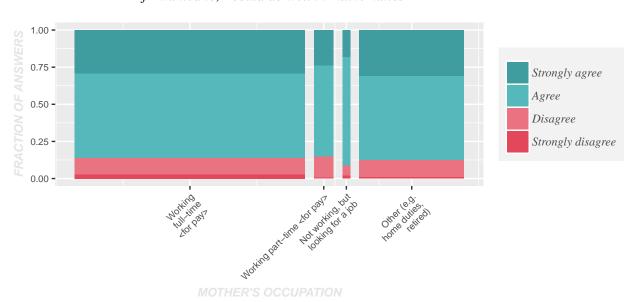
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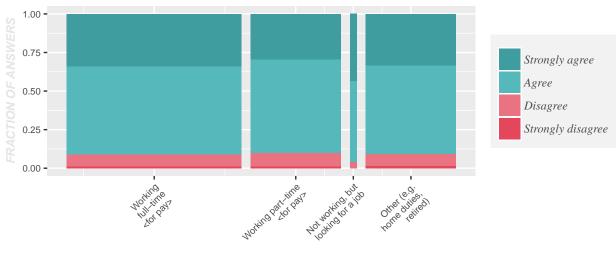


Thailand ANALYSIS

Thailand

MATH AND CAREER

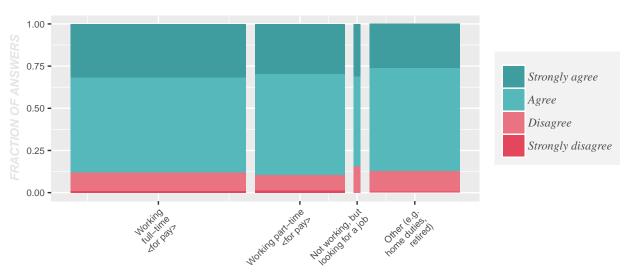
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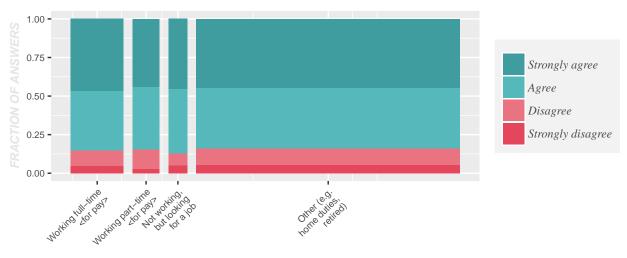
MOTHER'S OCCUPATION

Tunisia ANALYSIS

Tunisia

MATH AND CAREER

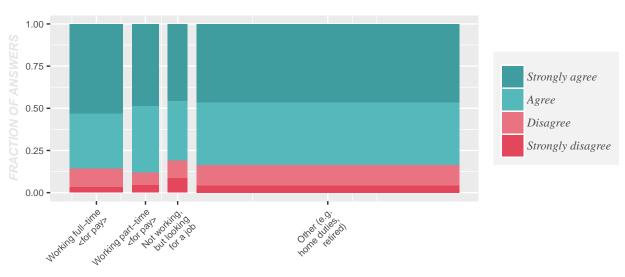
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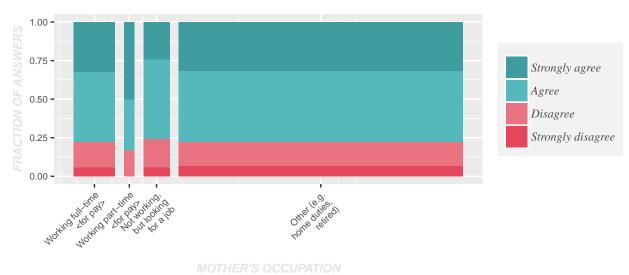
MOTHER'S OCCUPATION

ANALYSIS Turkey

Turkey

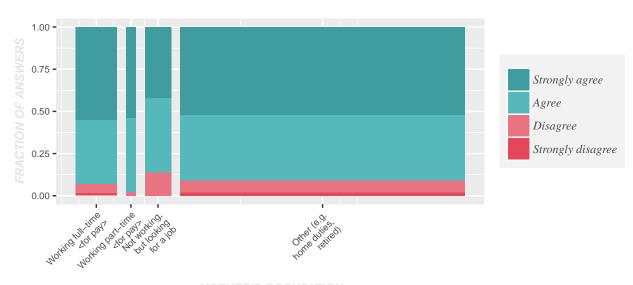
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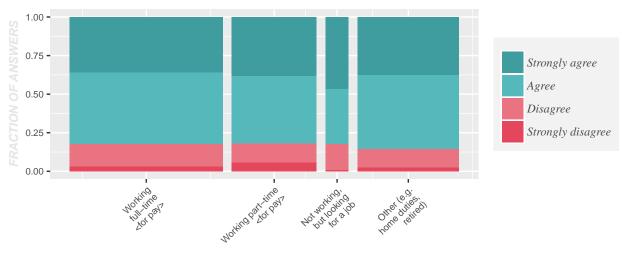


Uruguay ANALYSIS

Uruguay

MATH AND CAREER

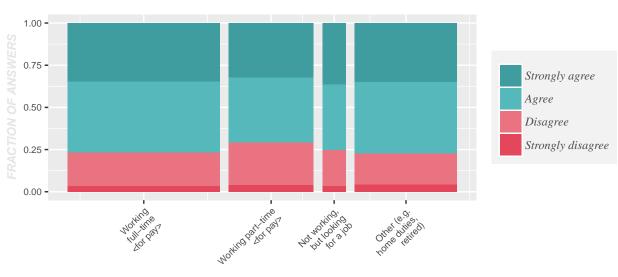
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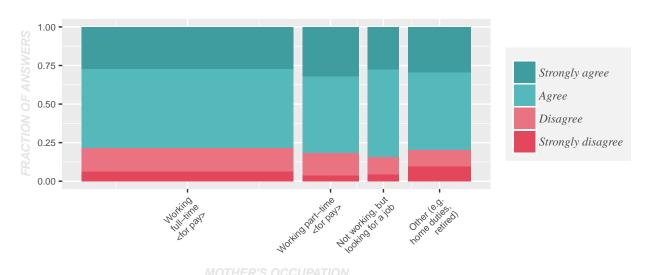
MOTHER'S OCCUPATION

United States of America ANALYSIS

United States of America

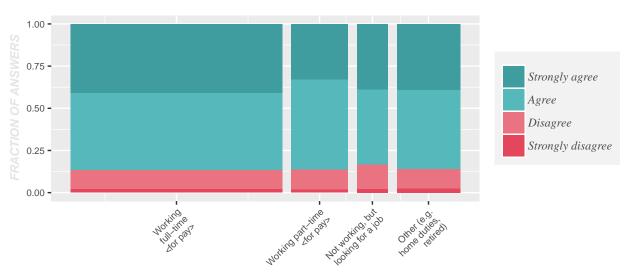
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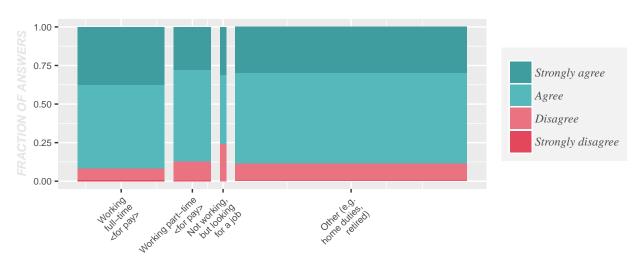
MOTHER'S OCCUPATION

ANALYSIS Vietnam

Vietnam

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