

# 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 focussing 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).

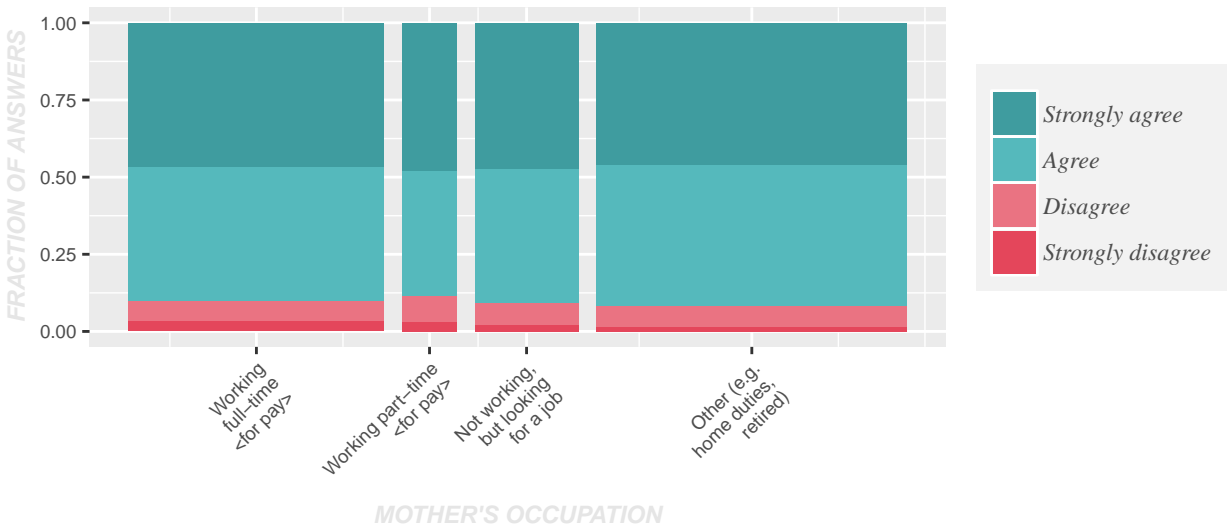
The two chosen questions were statements to which the girls needed to state to what extent they apply to them. Response scale had 4 following levels: strongly agree, agree, disagree, strongly disagree. First statement concerned the feeling about the usefulness of mathematics in their future career and 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.

Albania

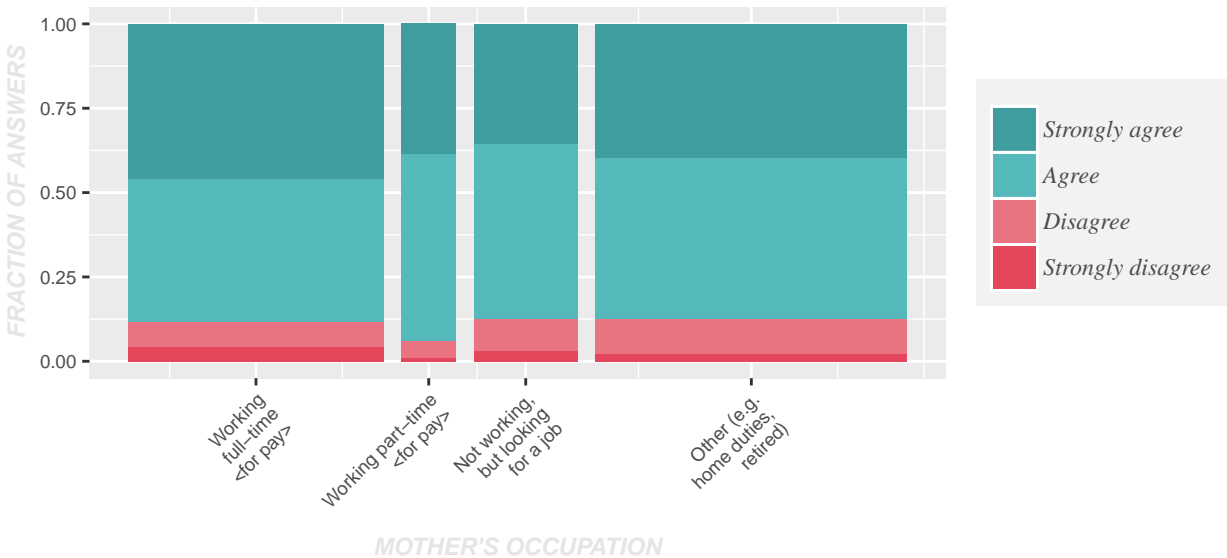
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MATH CONFIDENCE

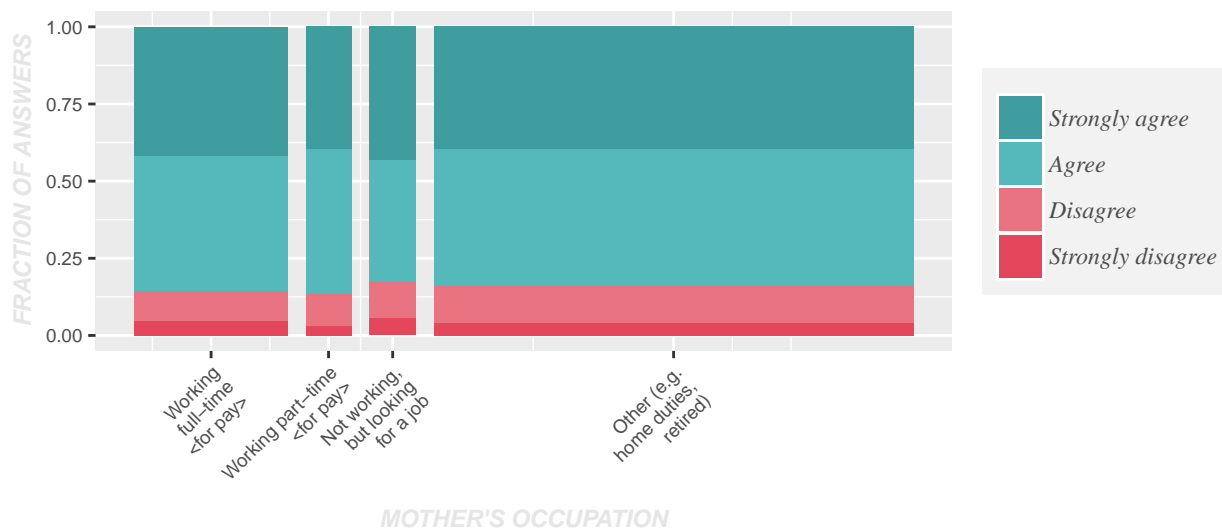
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## United Arab Emirates

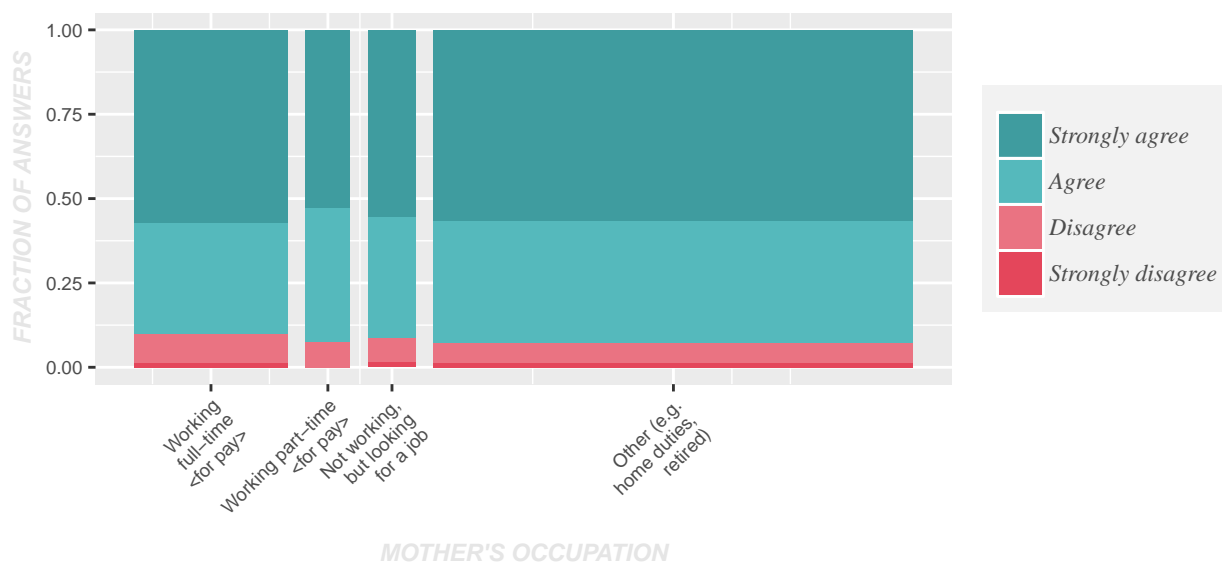
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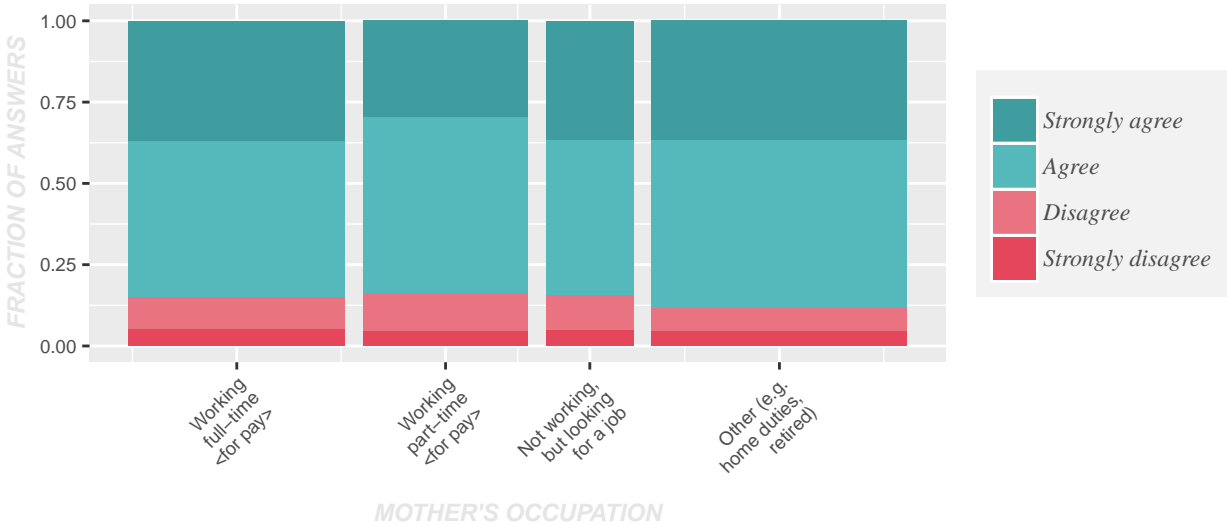
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Argentina

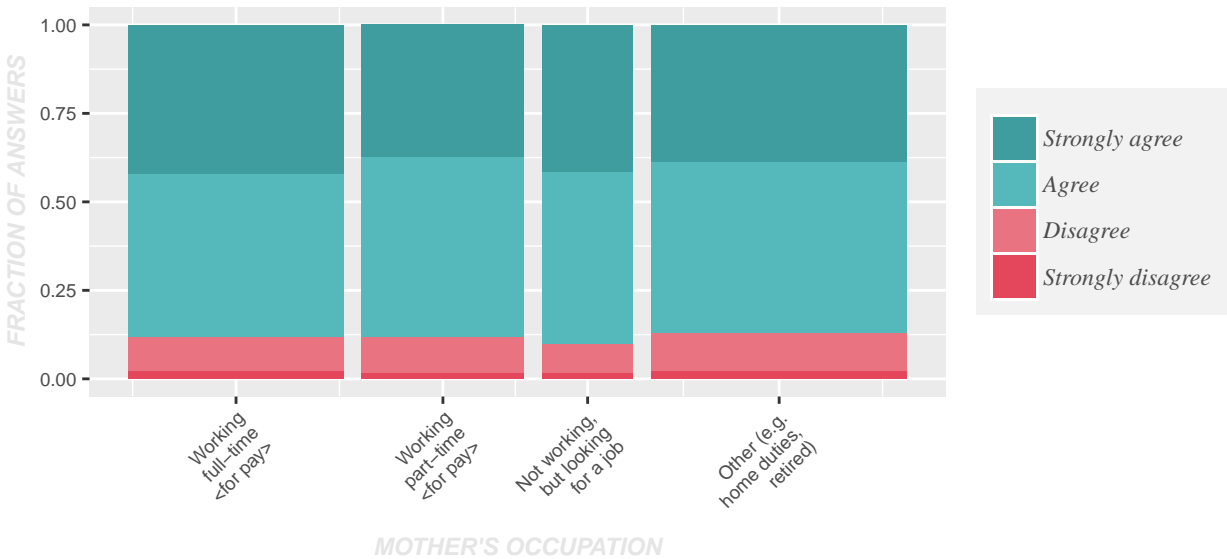
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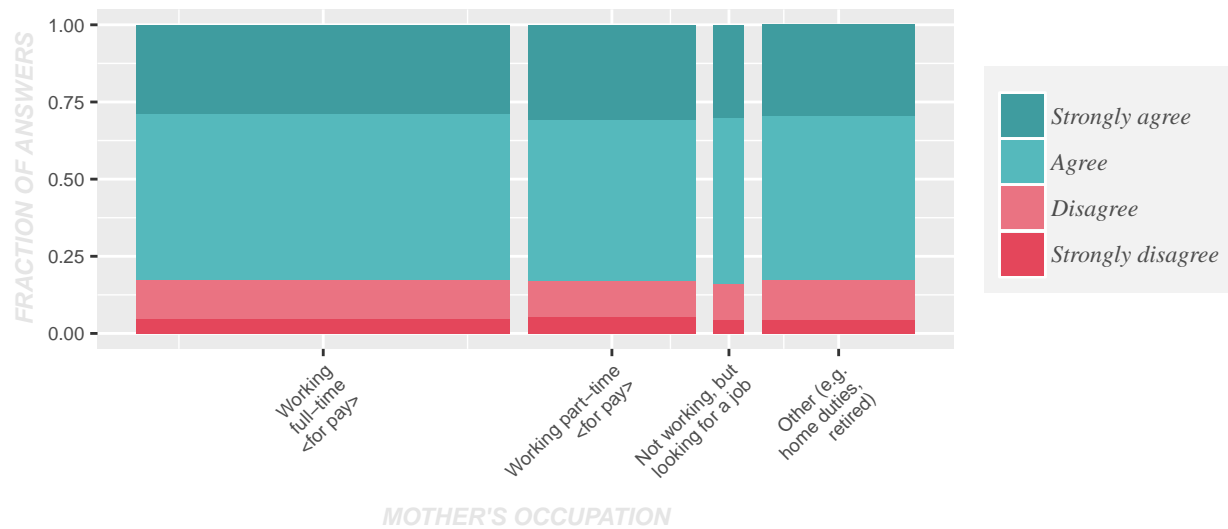
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## Australia

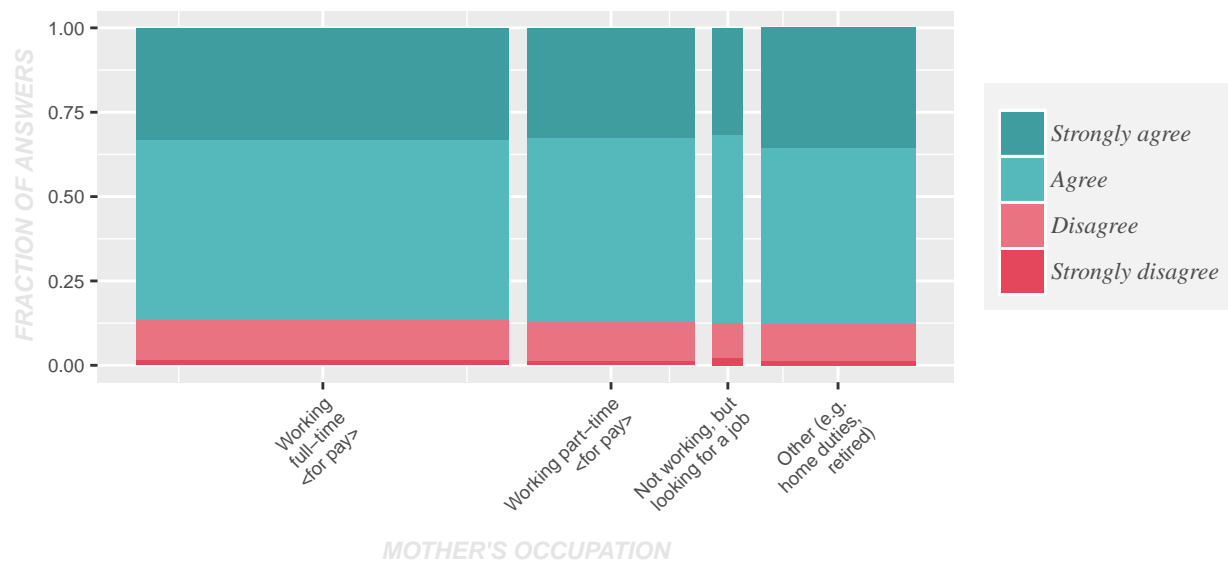
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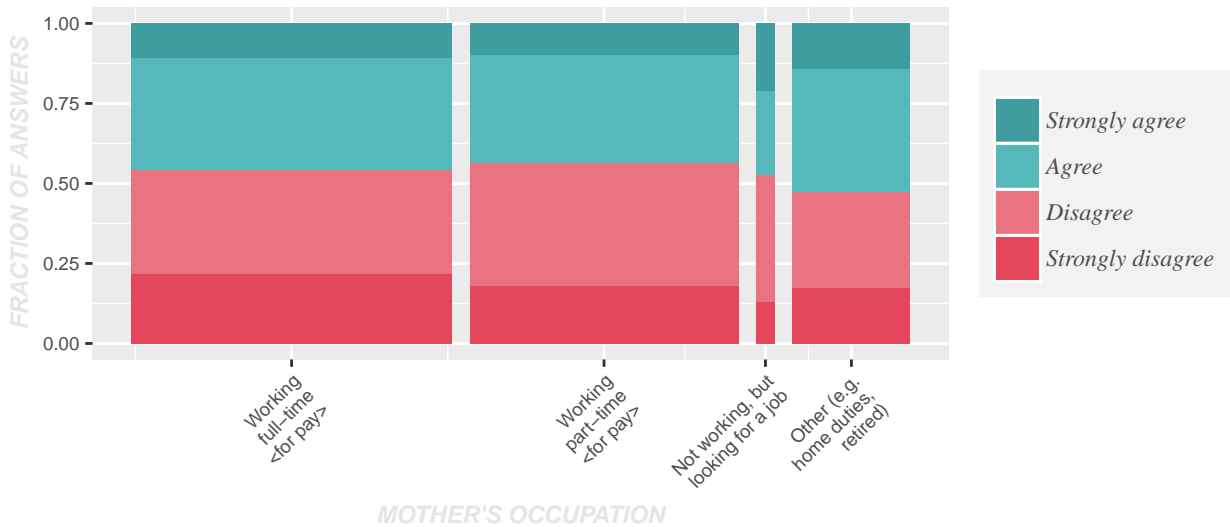
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Austria

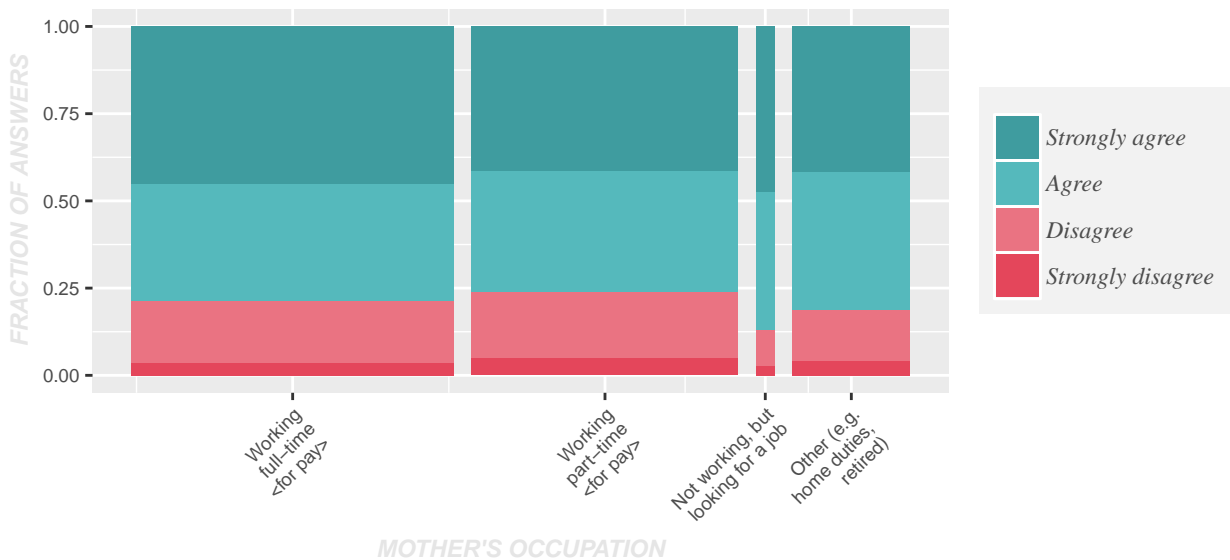
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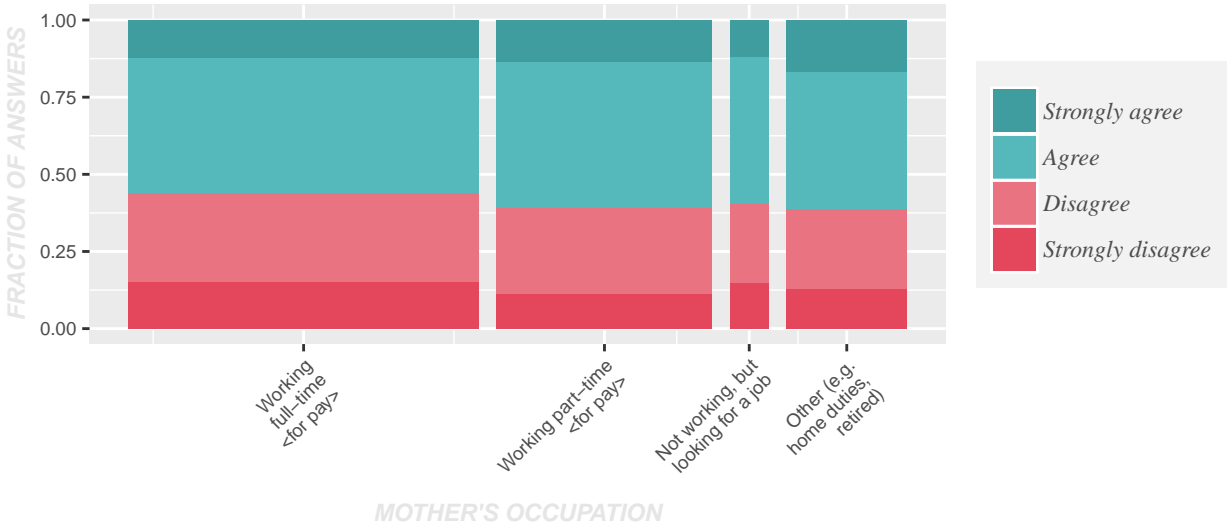
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Belgium

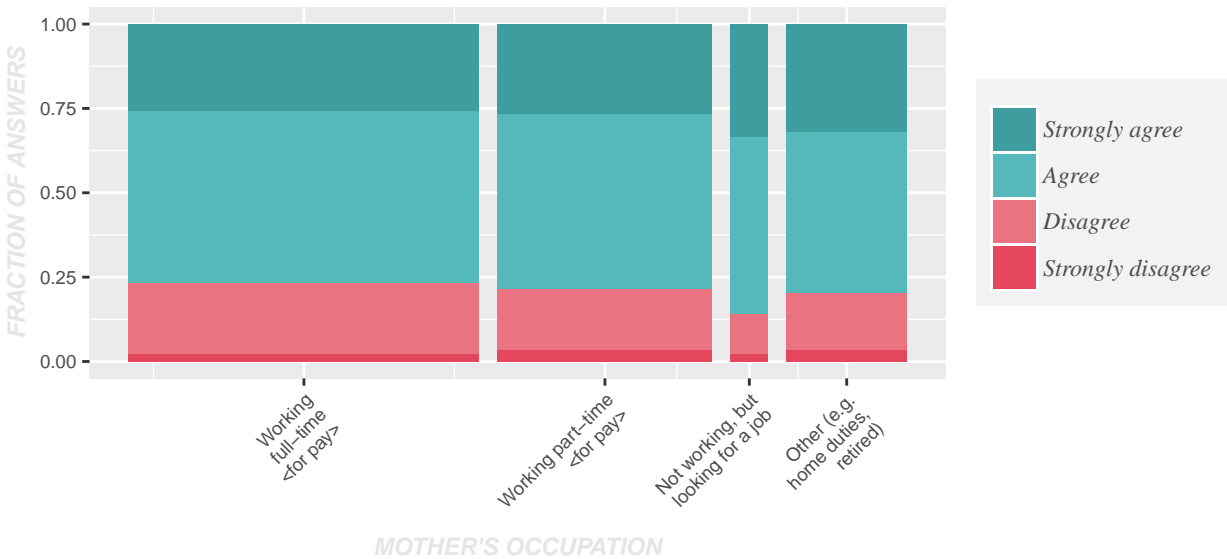
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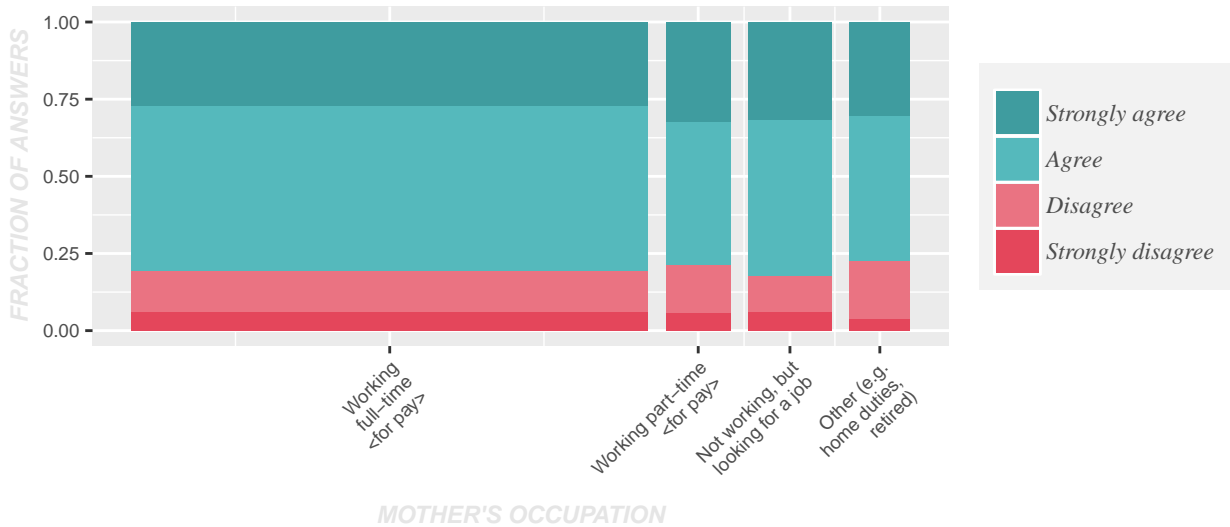




Bulgaria

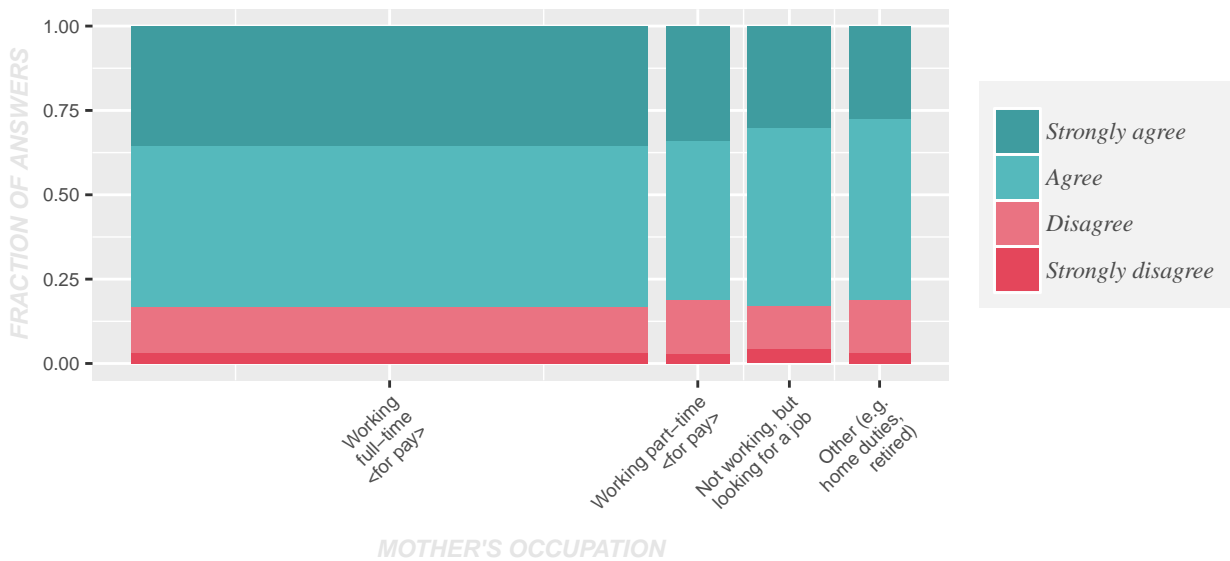
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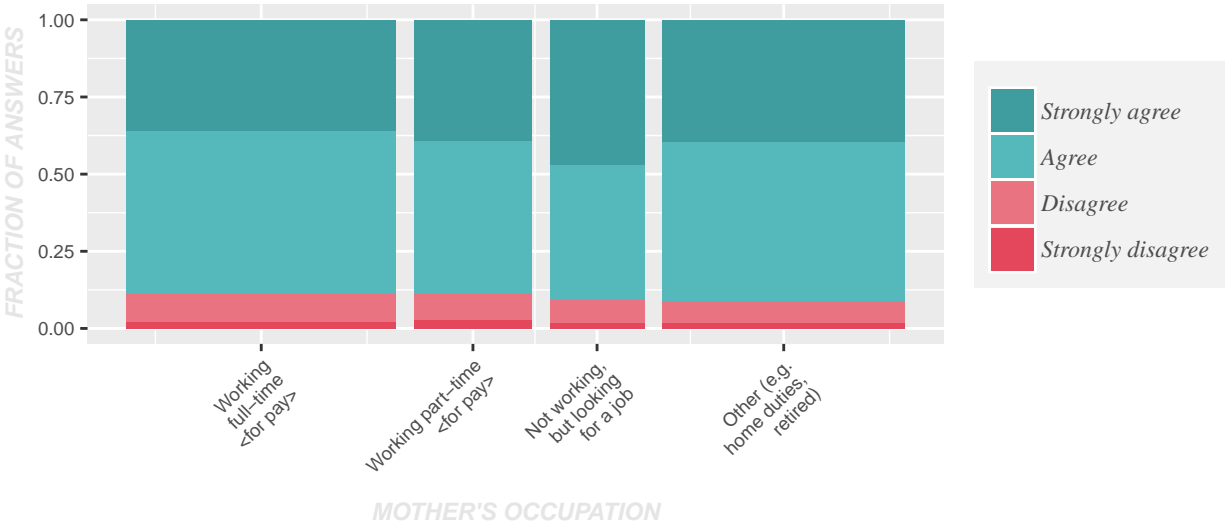
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Brazil

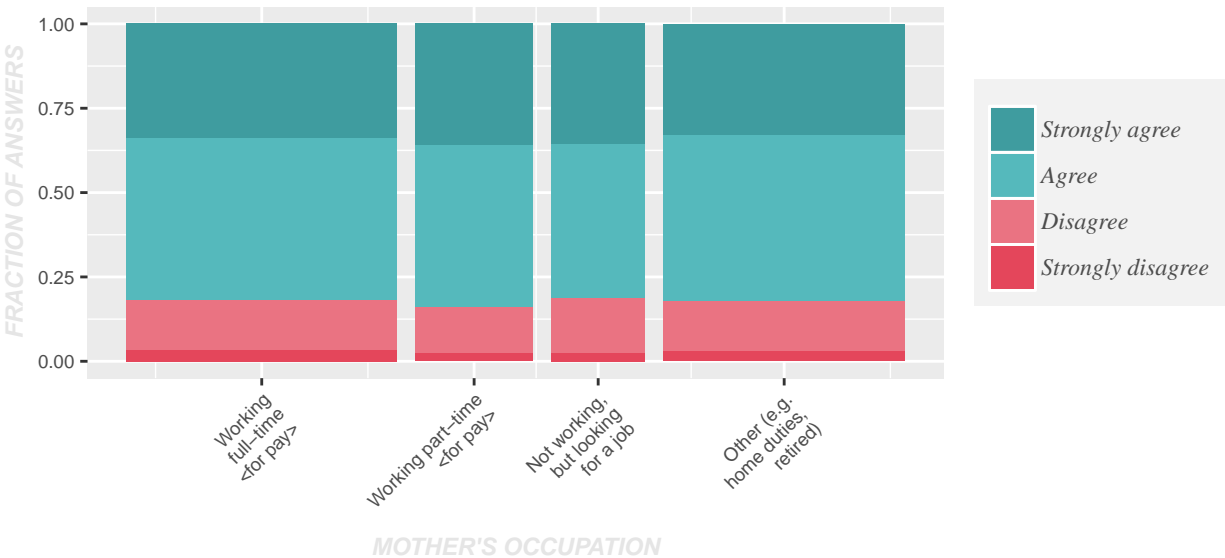
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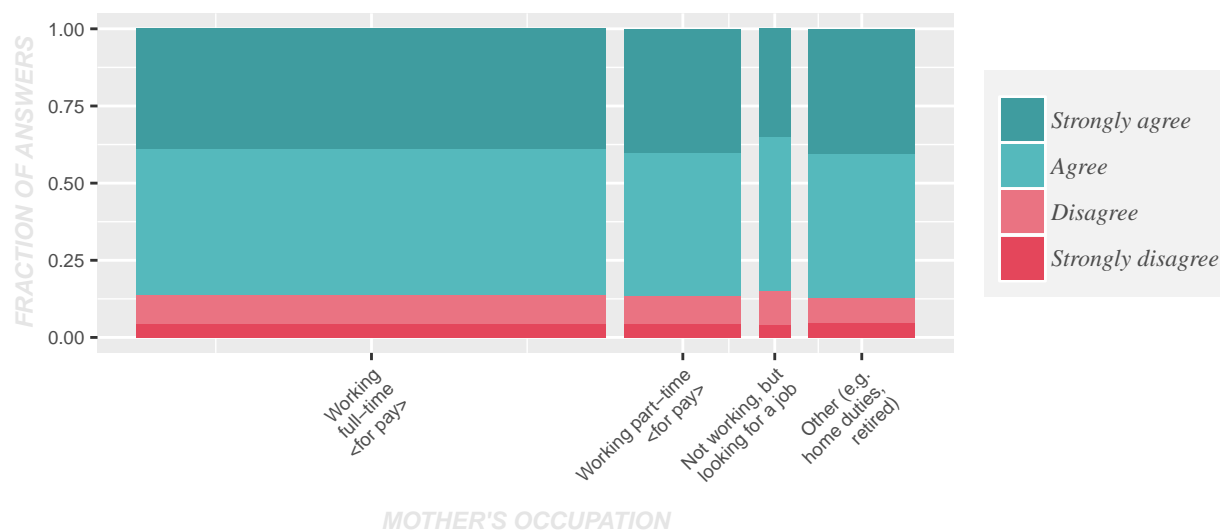
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## Canada

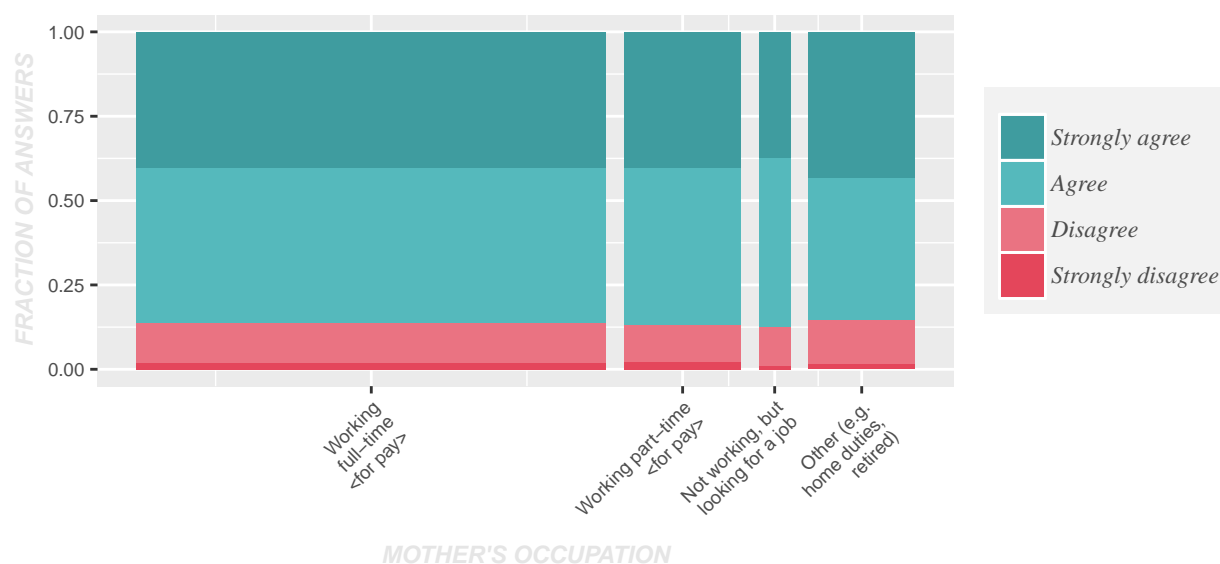
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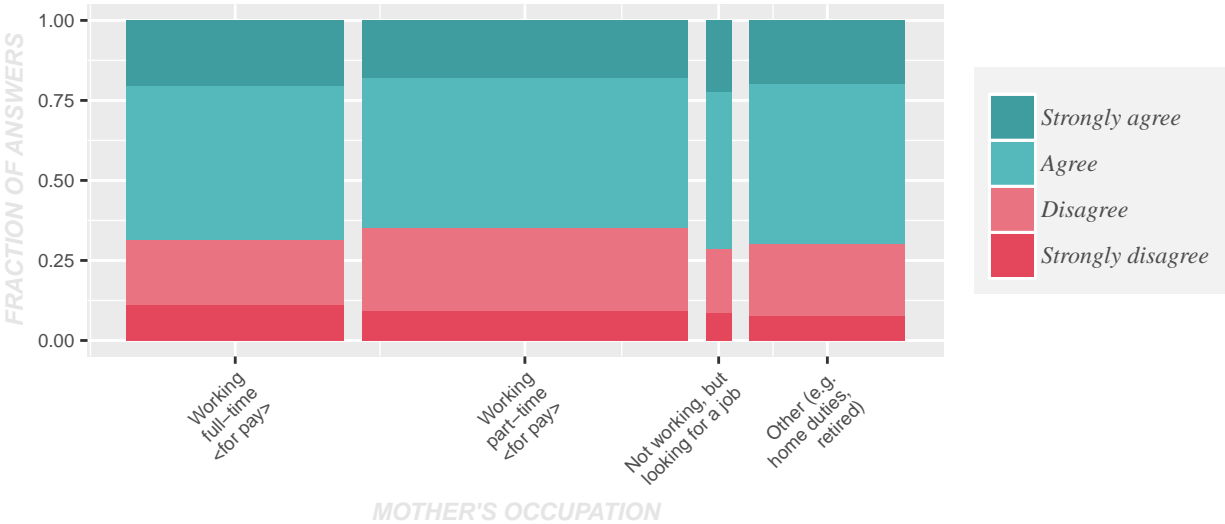
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Switzerland

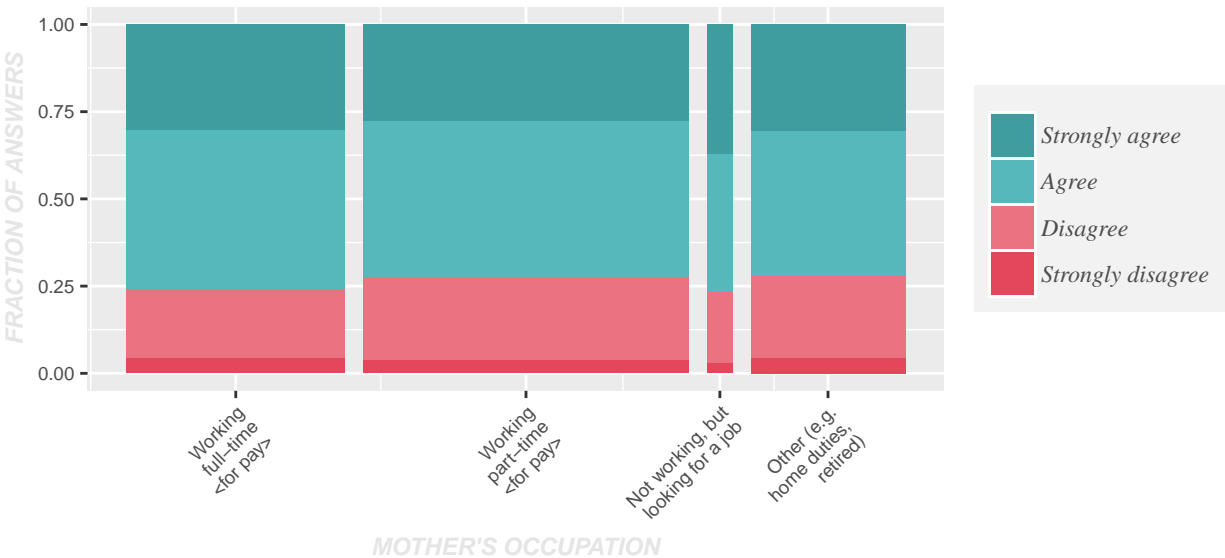
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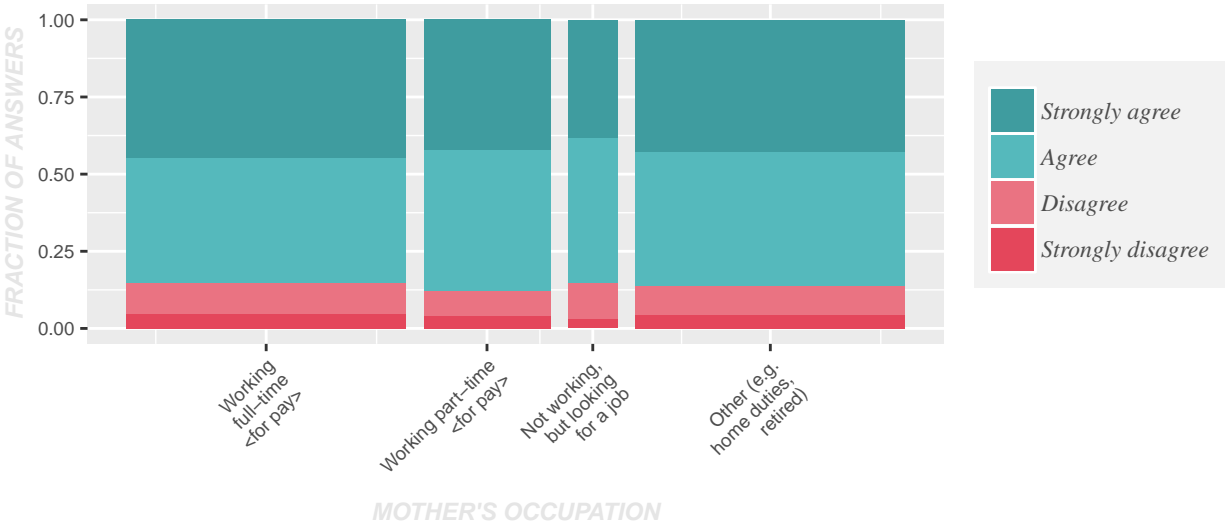
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Chile

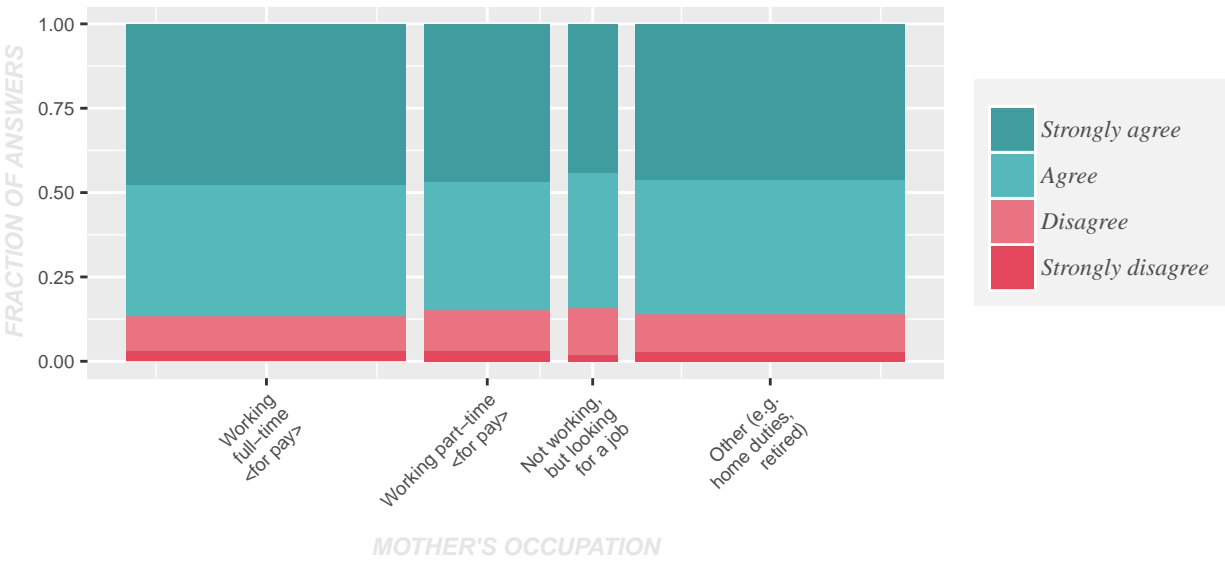
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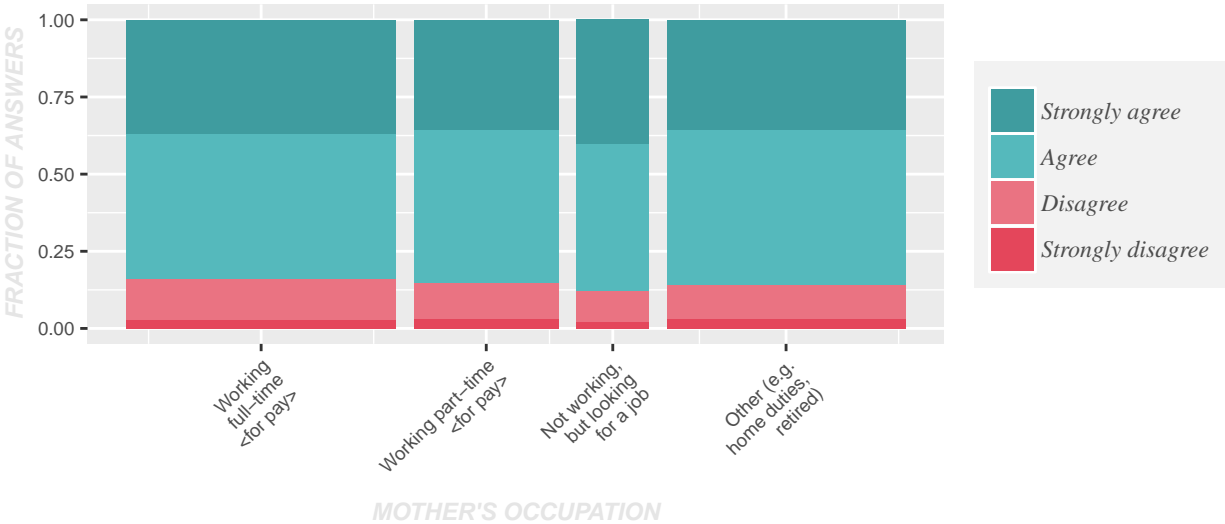
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Colombia

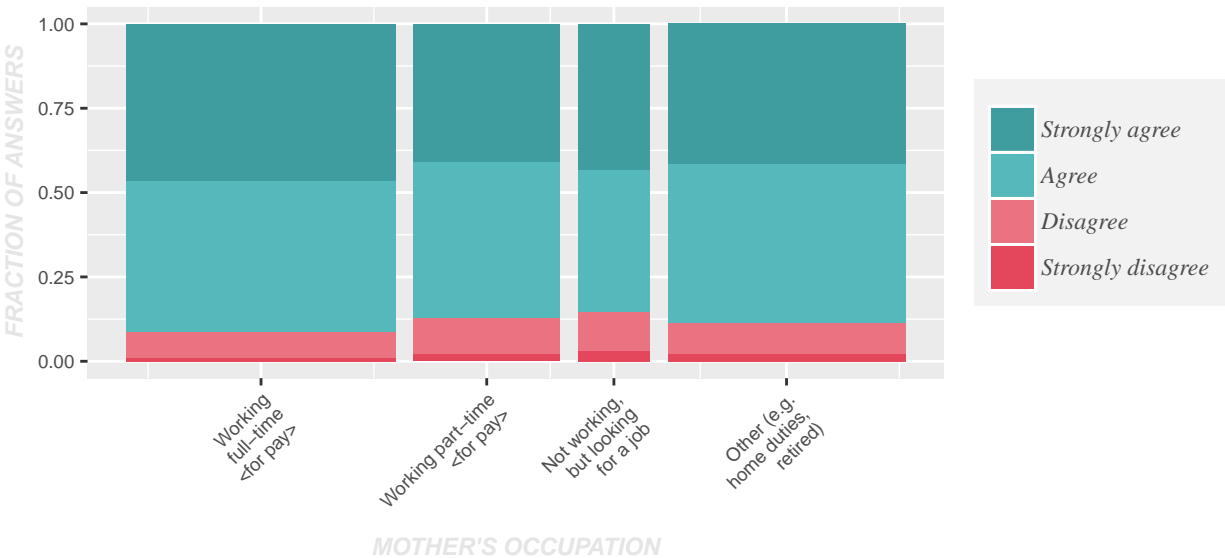
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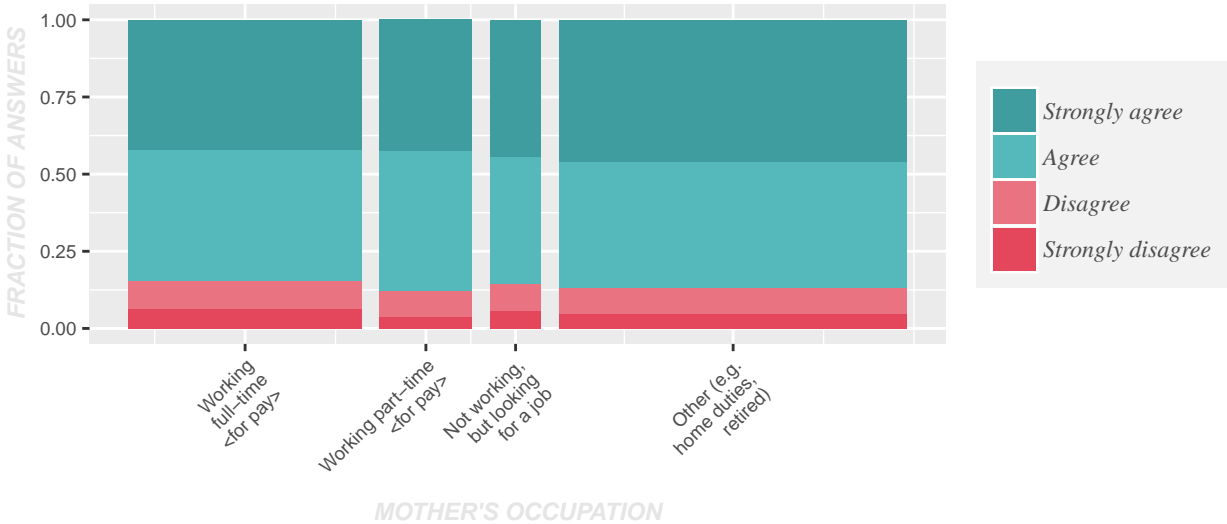
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Costa Rica

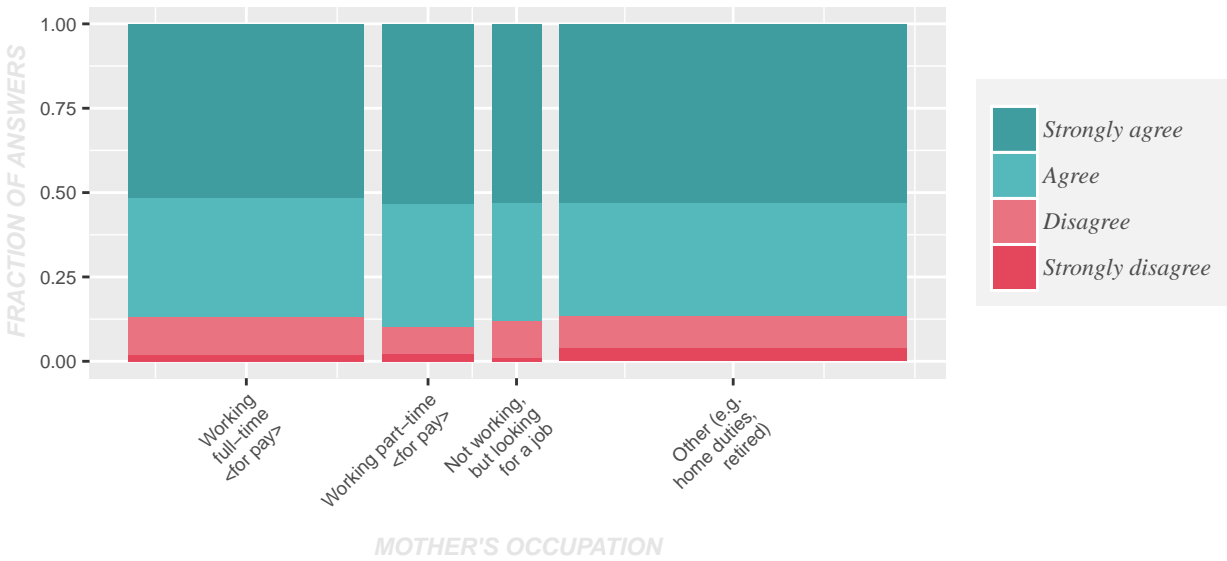
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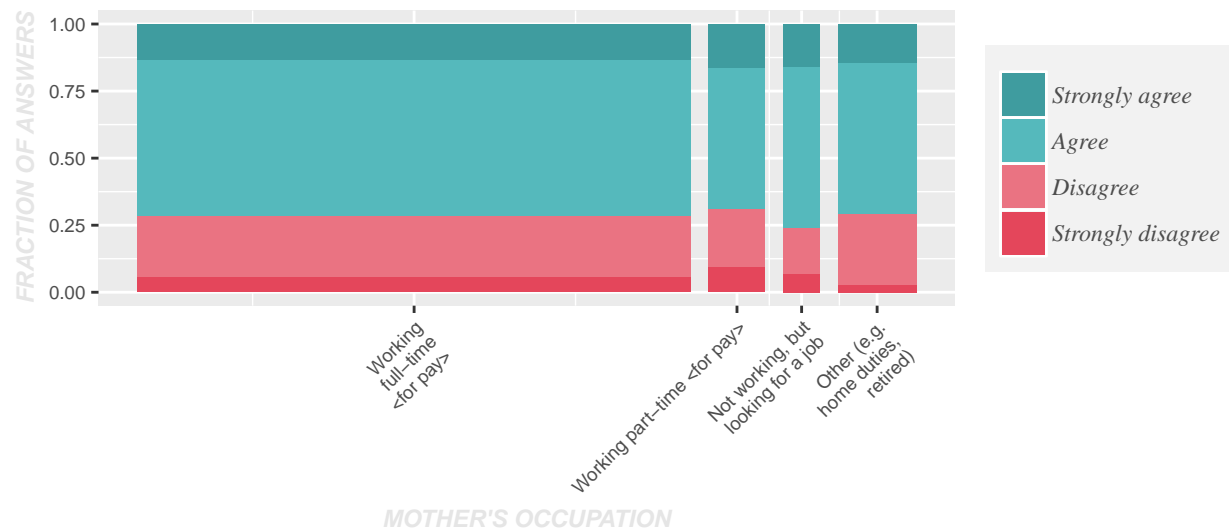
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## Czech Republic

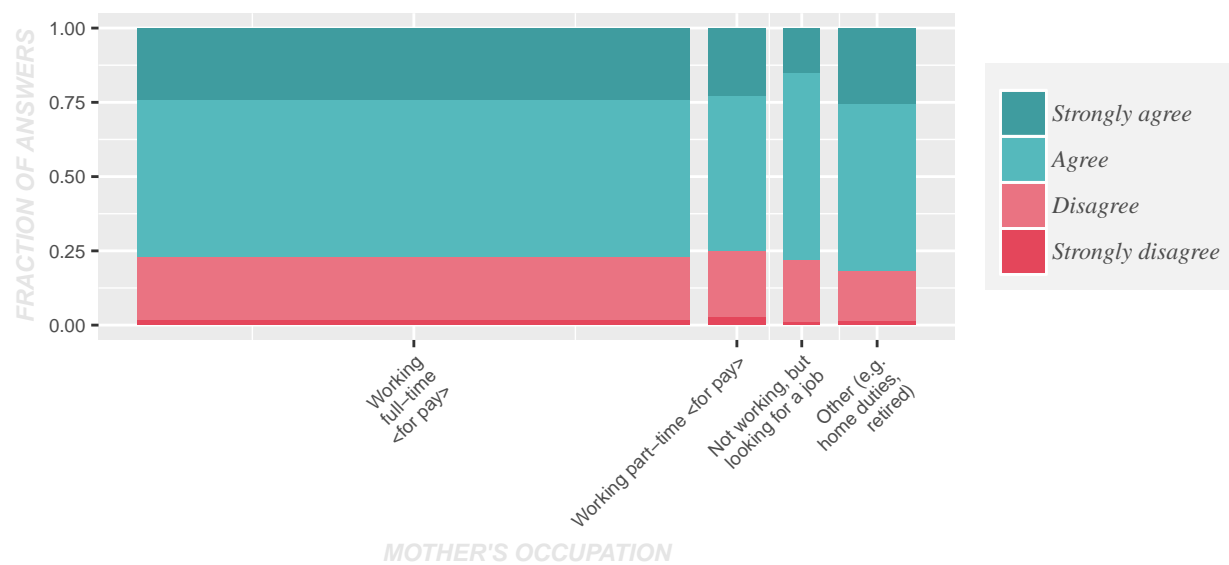
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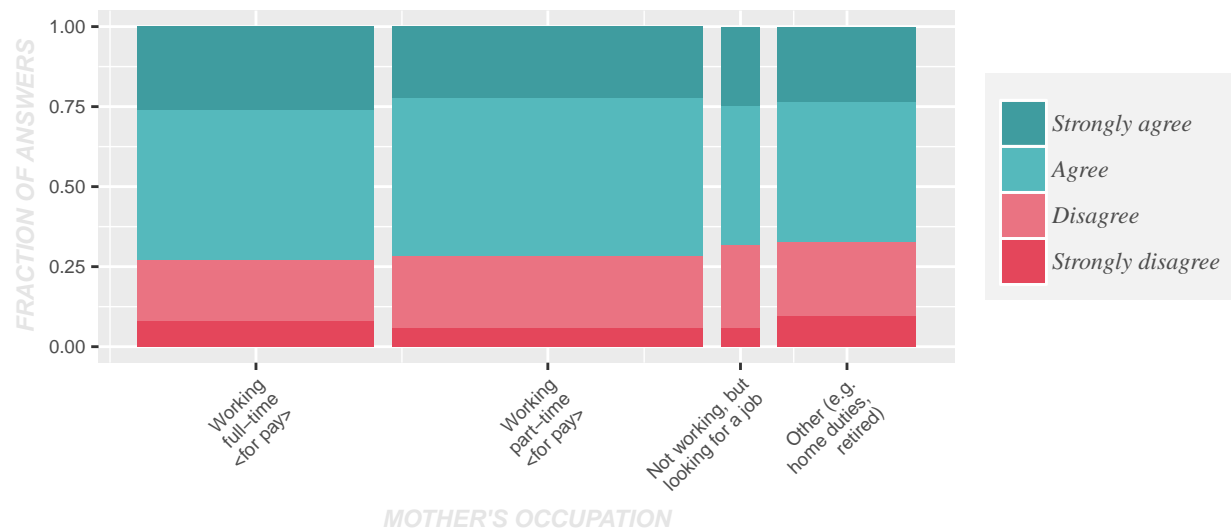




## Germany

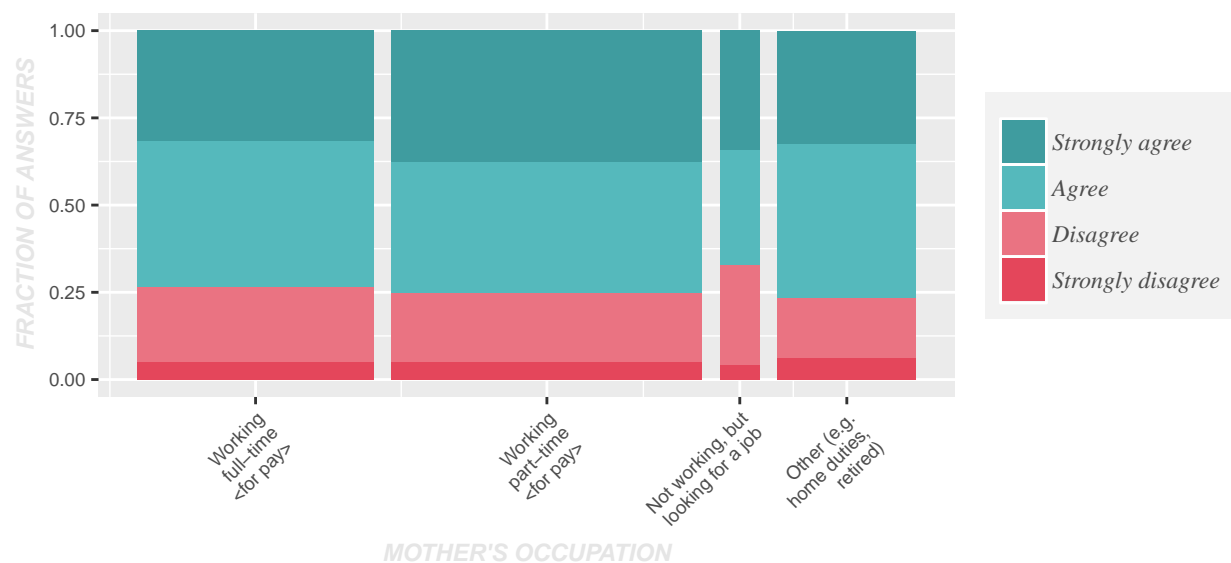
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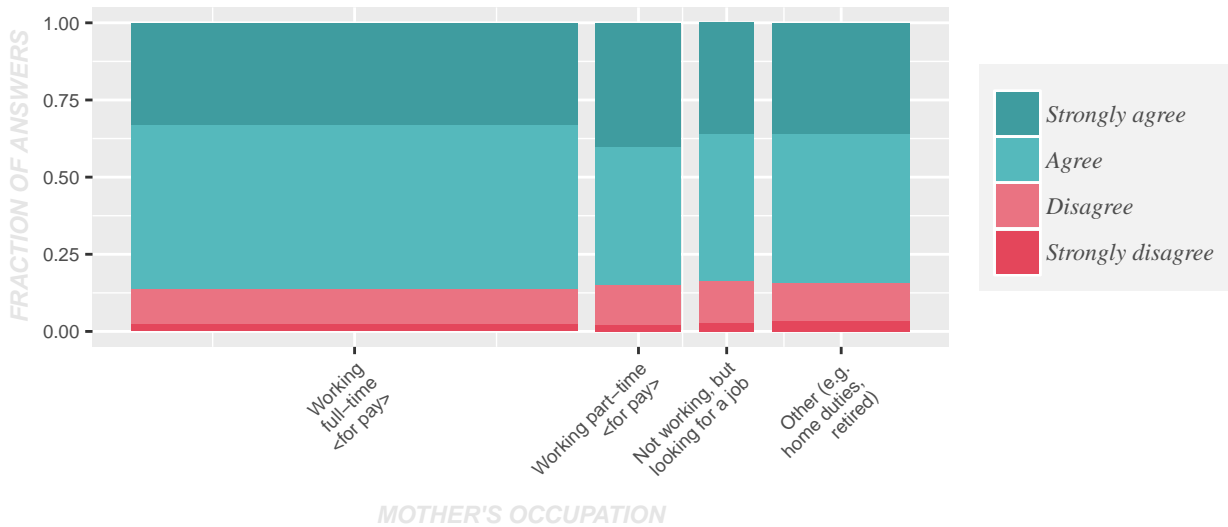
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Denmark

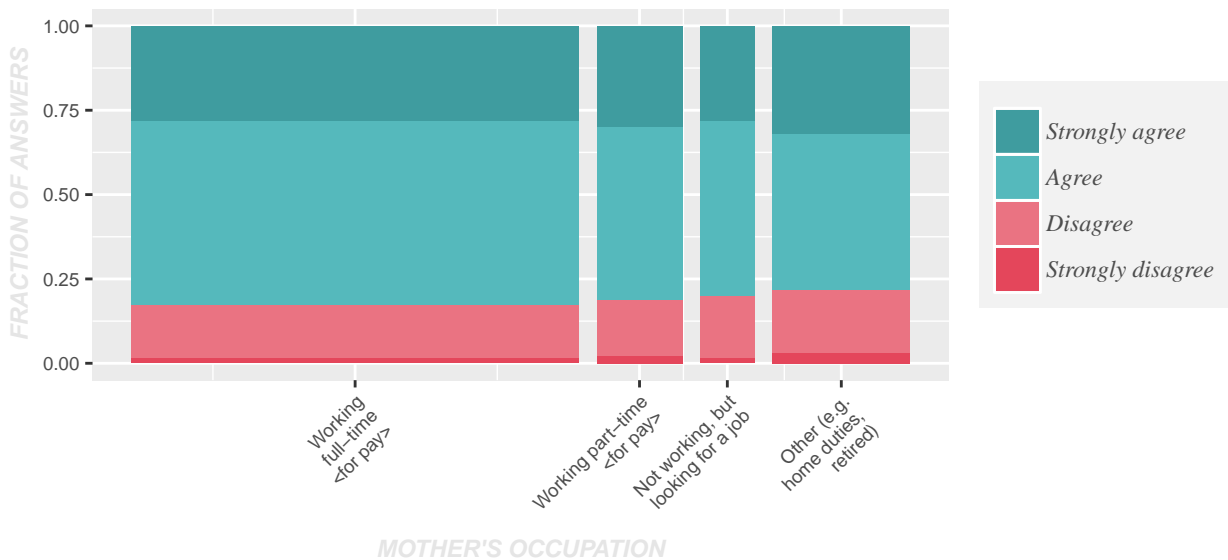
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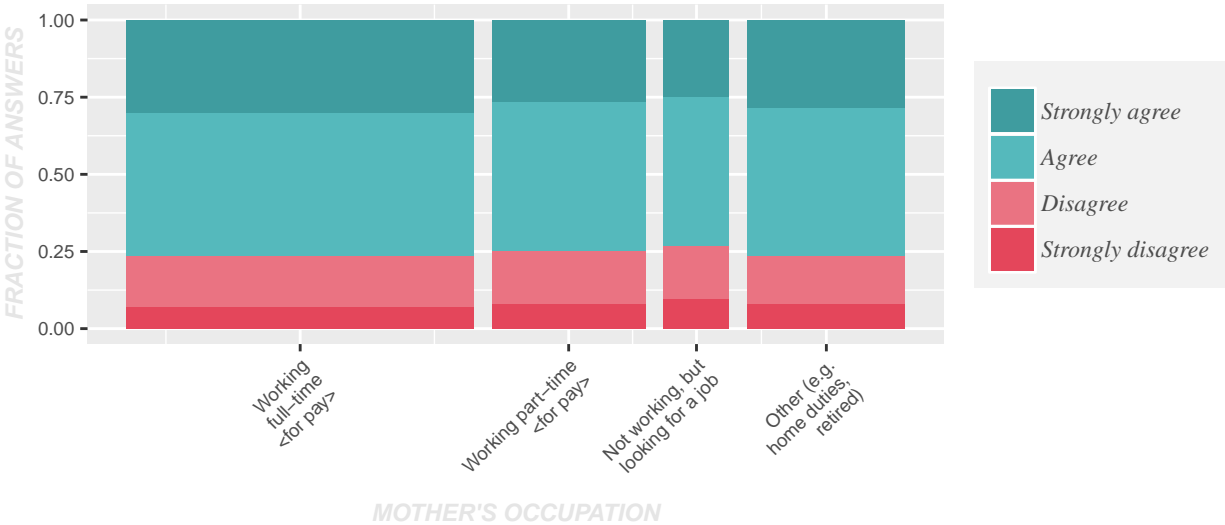
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Spain

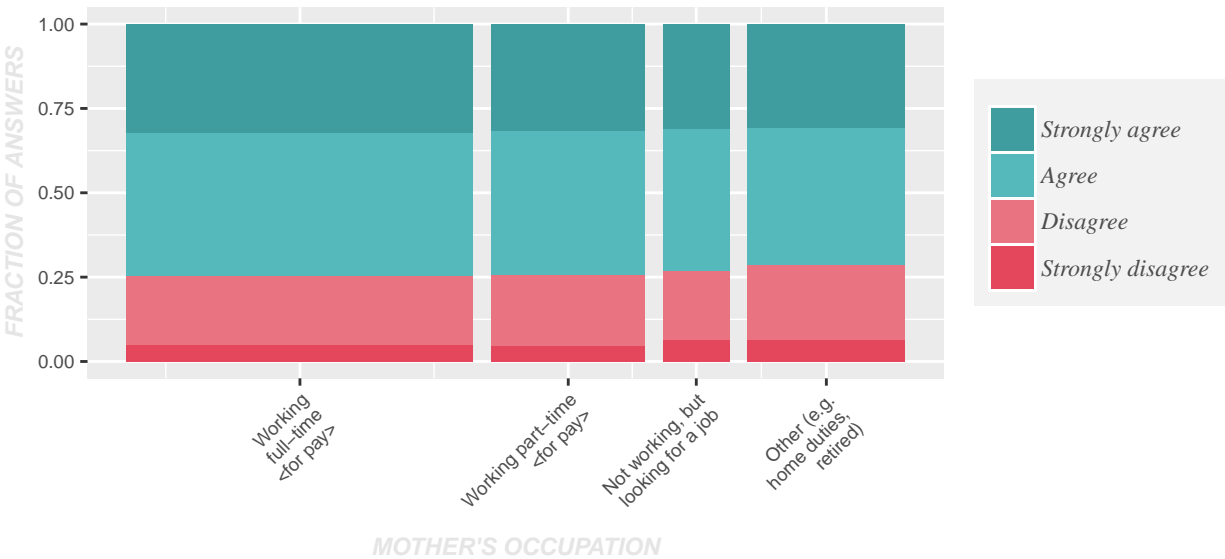
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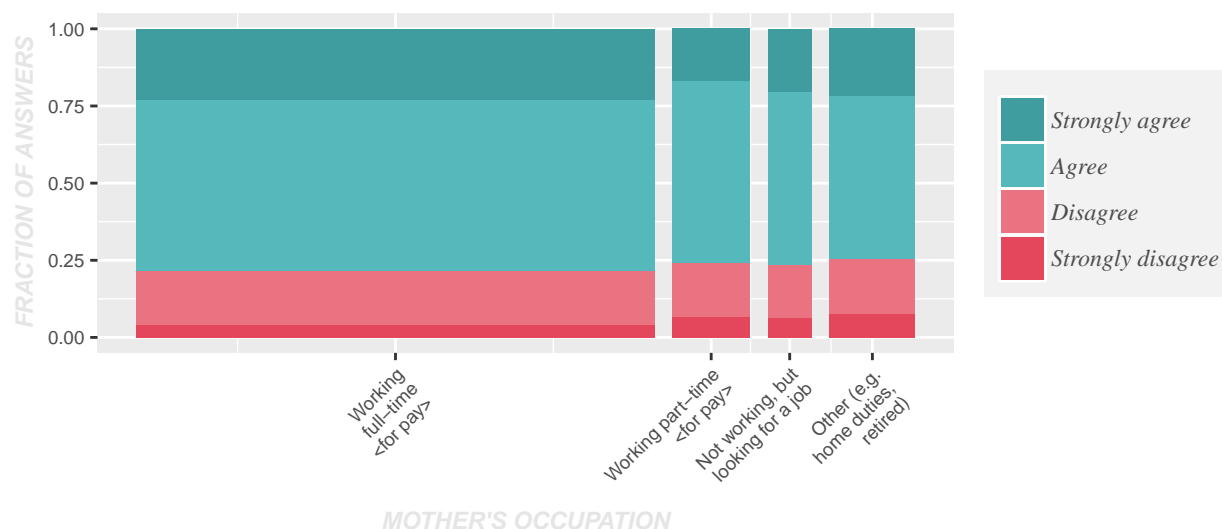
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## Estonia

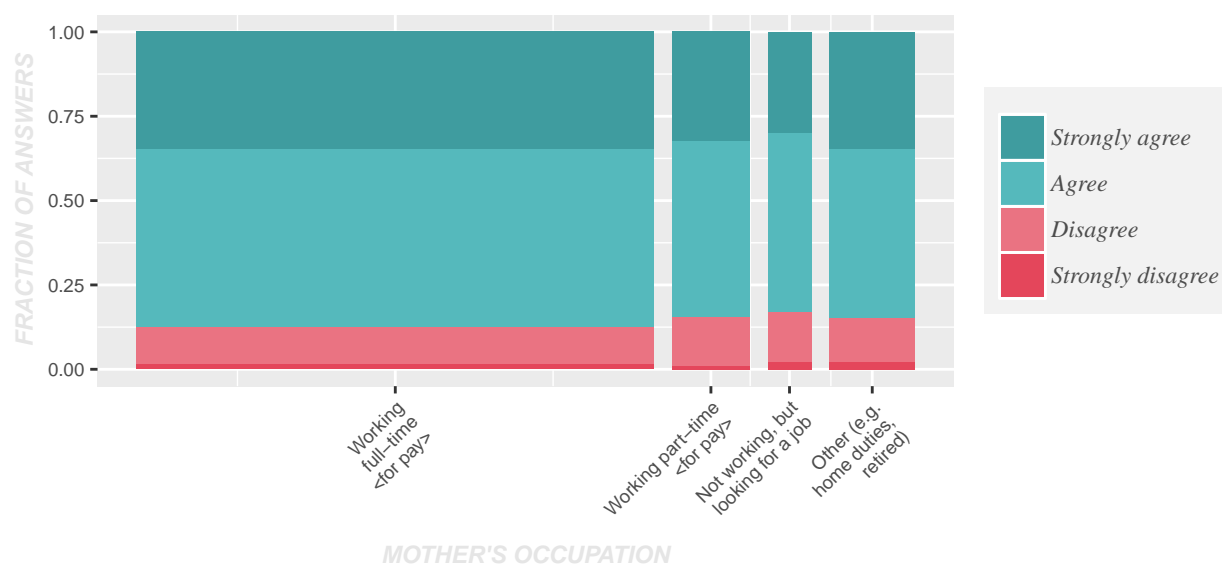
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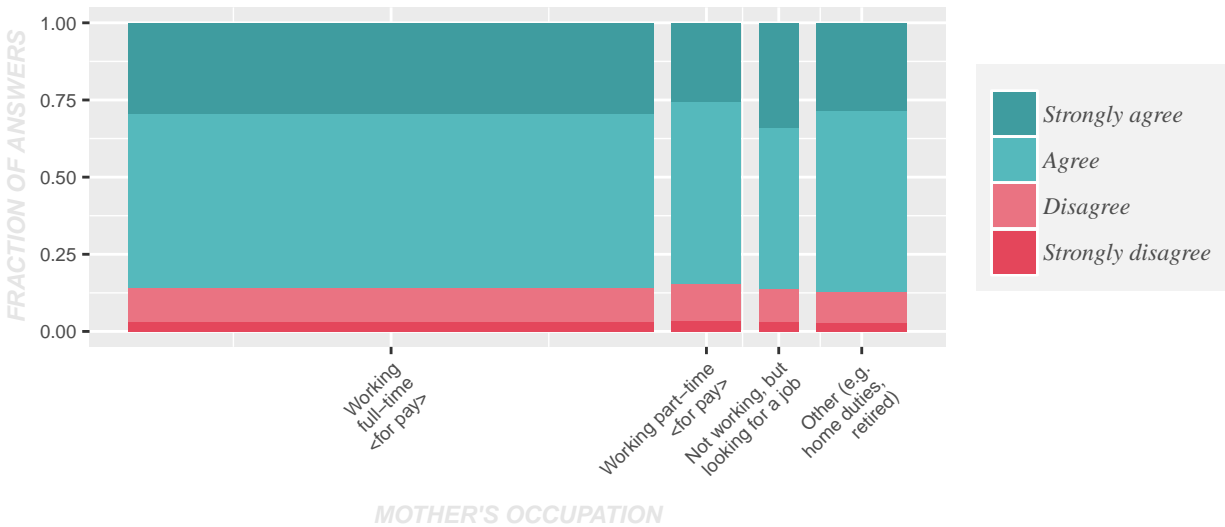
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Finland

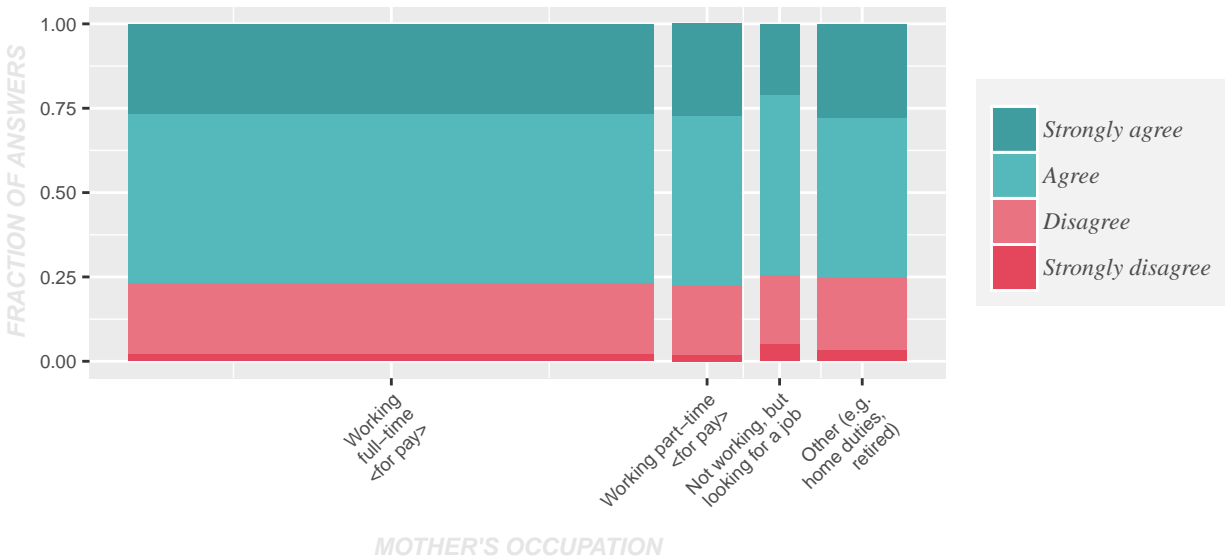
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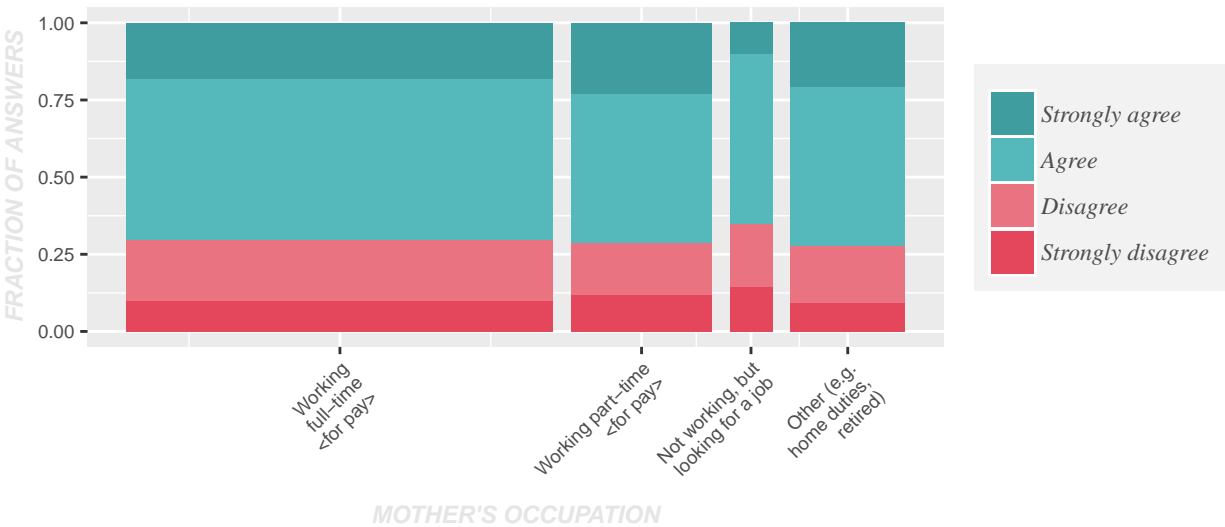
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France

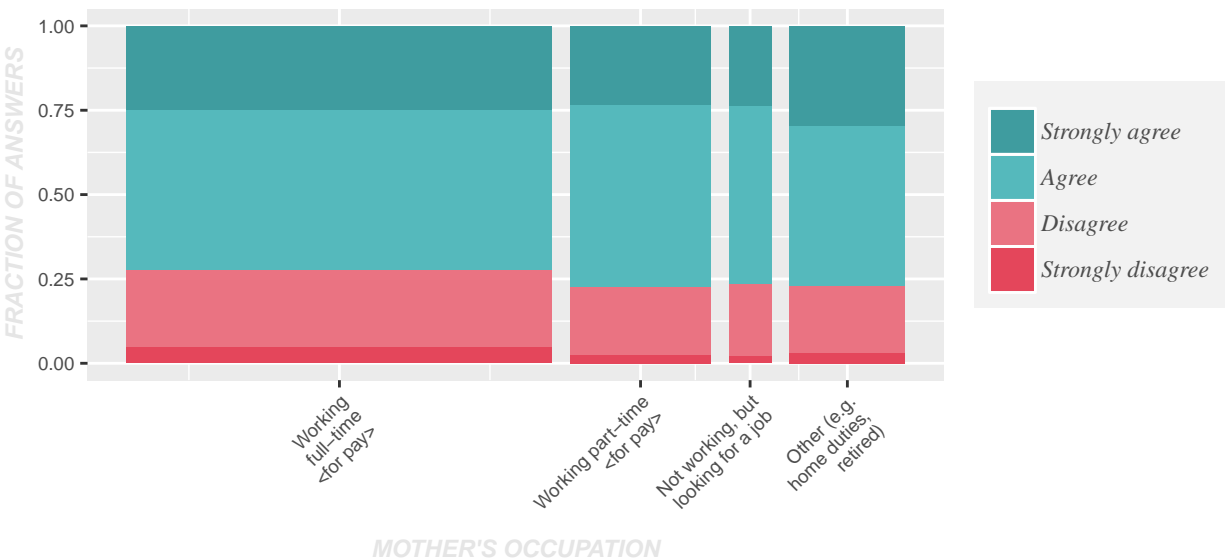
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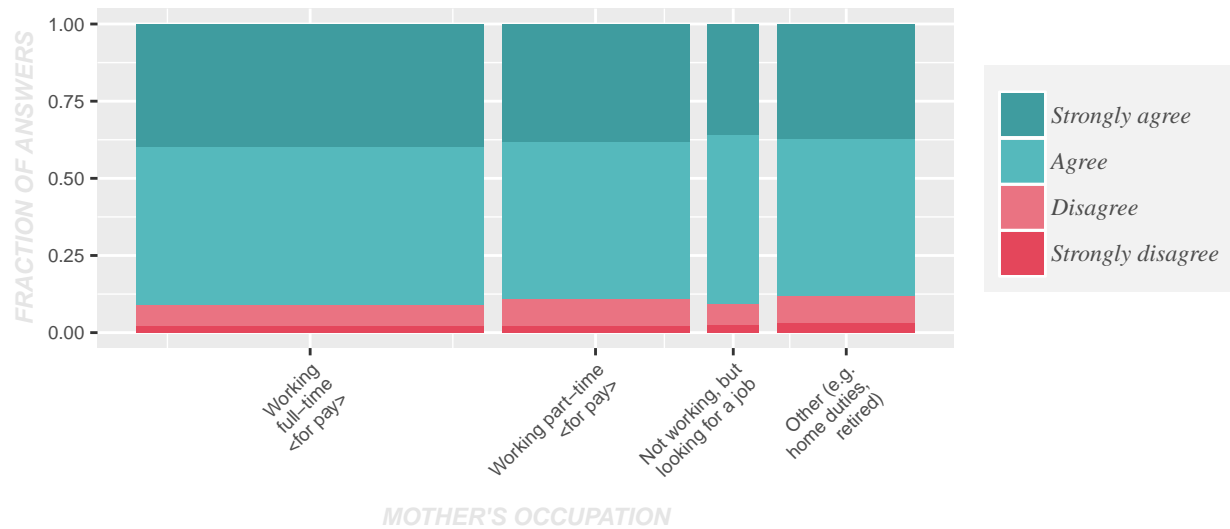
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## United Kingdom

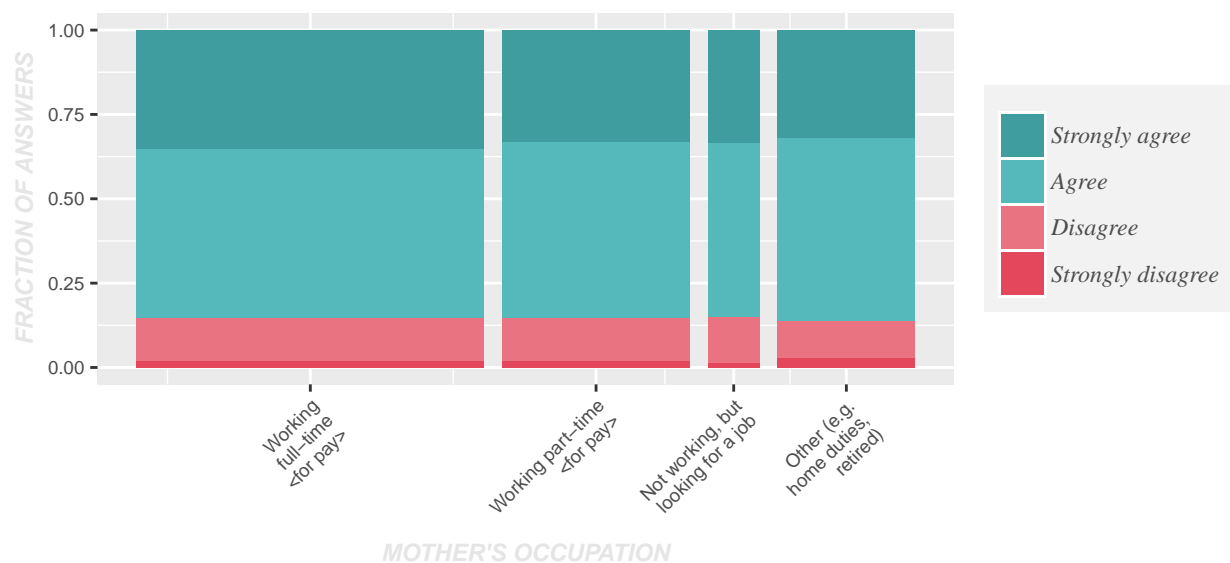
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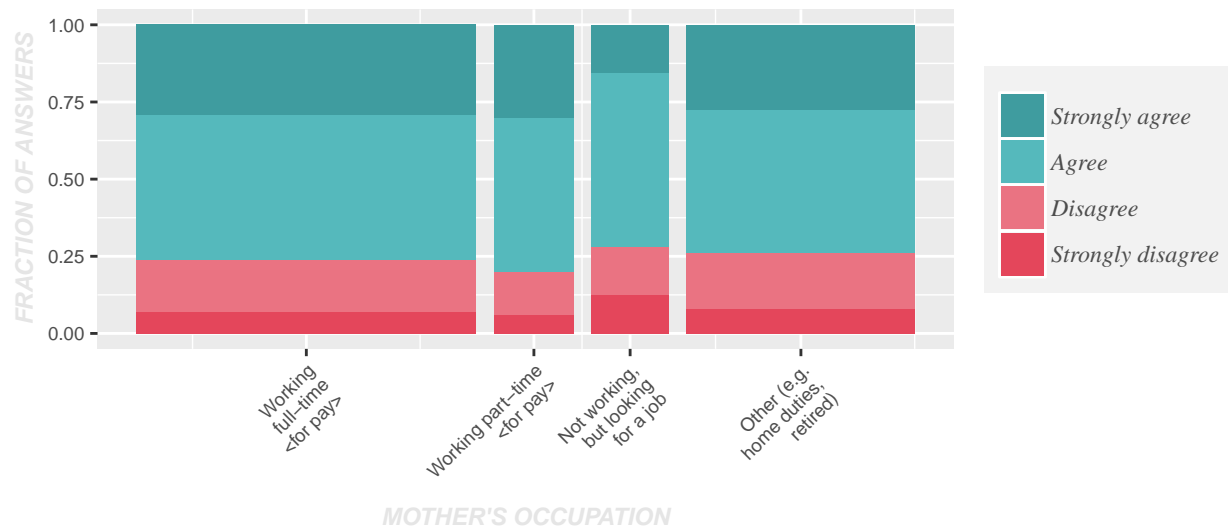
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## Greece

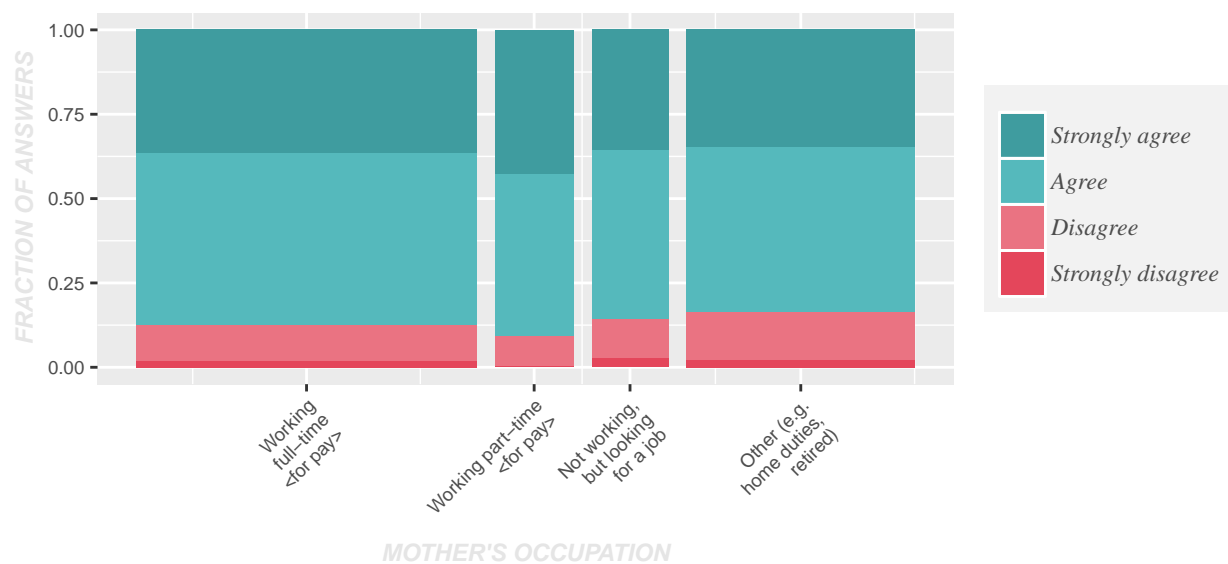
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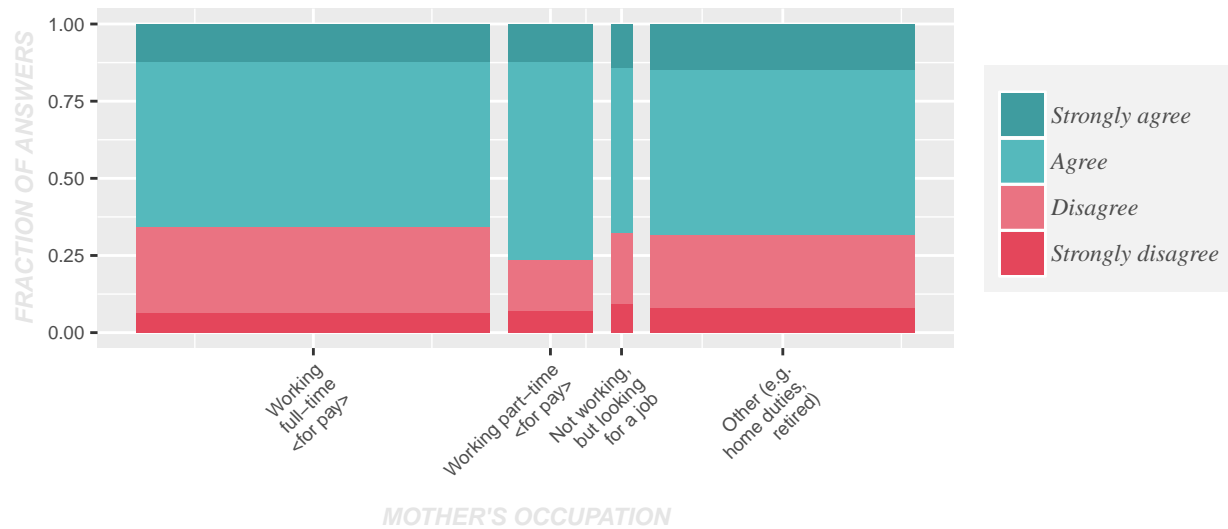




## Hong Kong-China

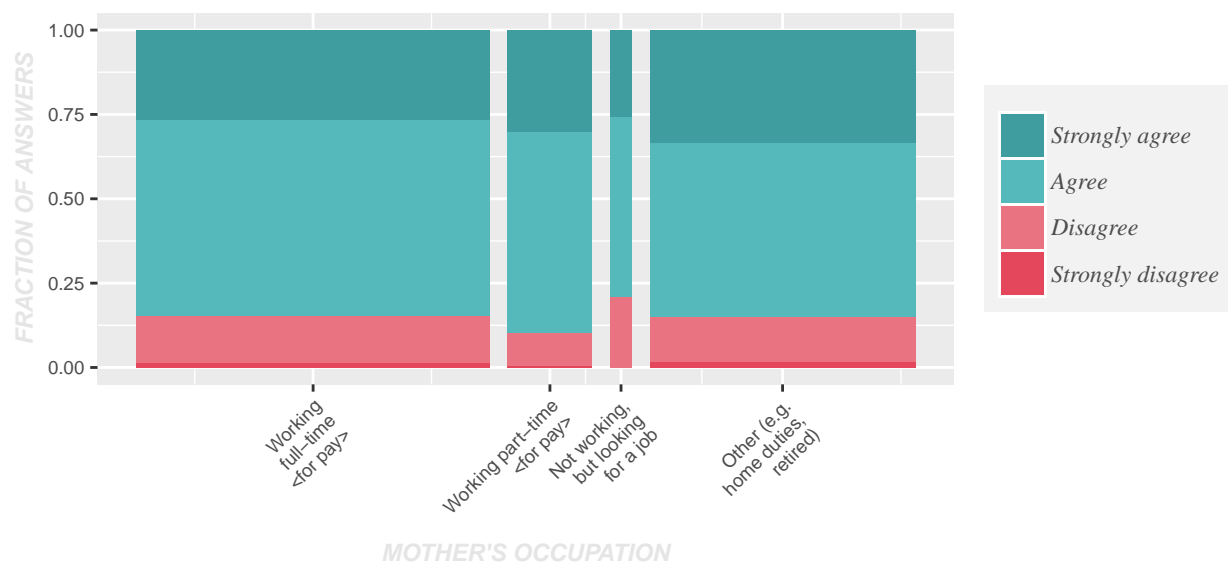
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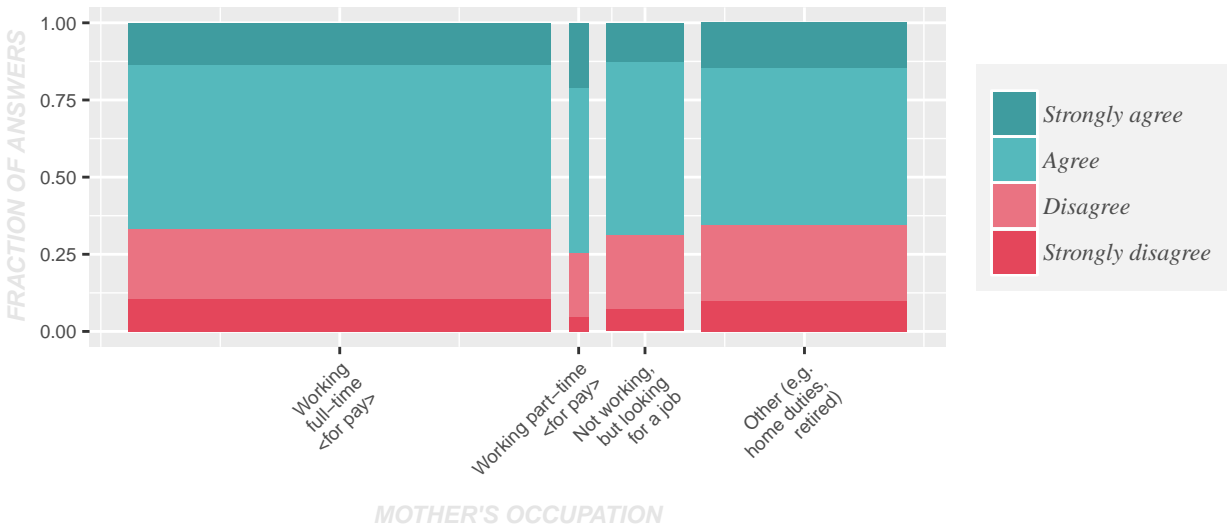
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Croatia

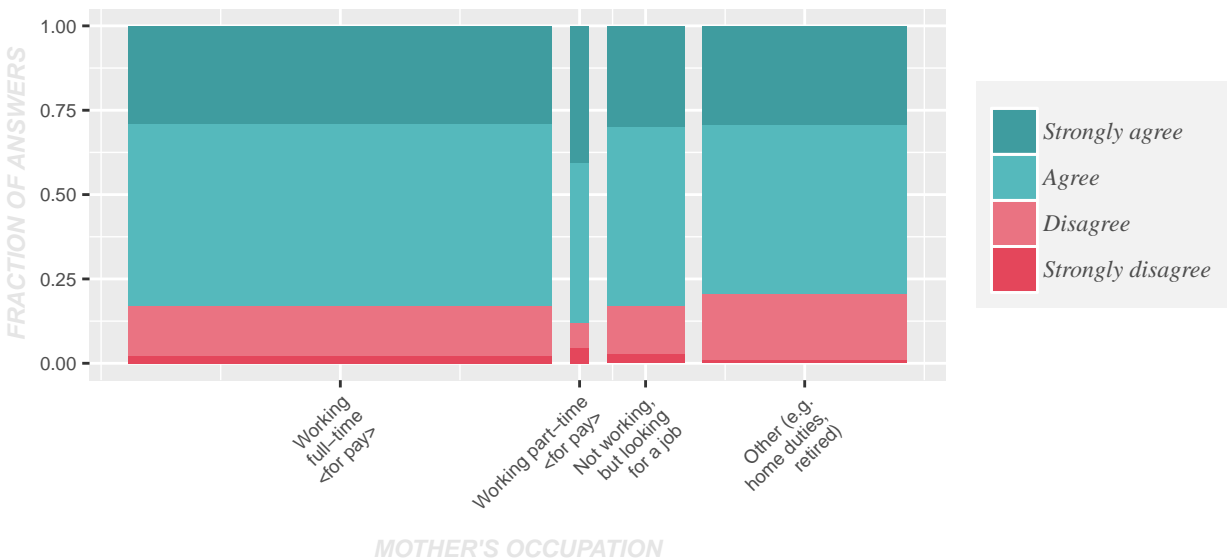
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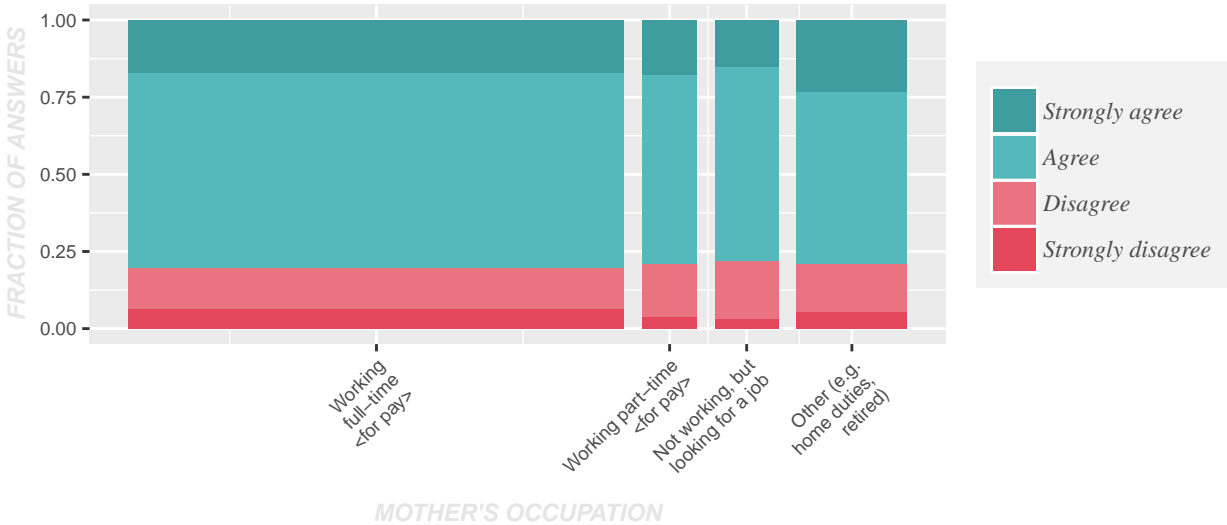
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Hungary

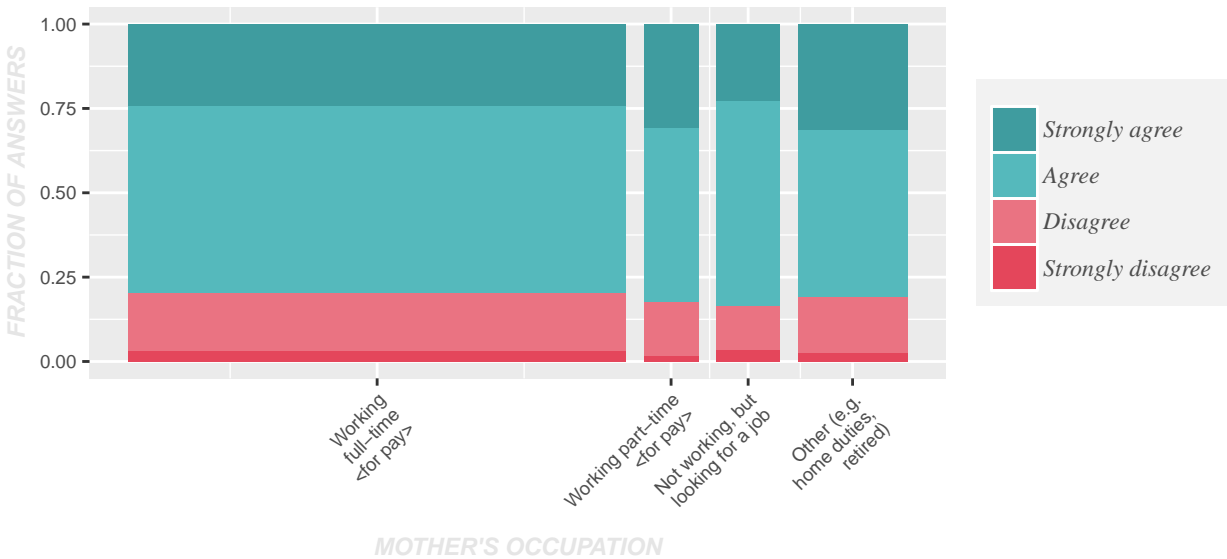
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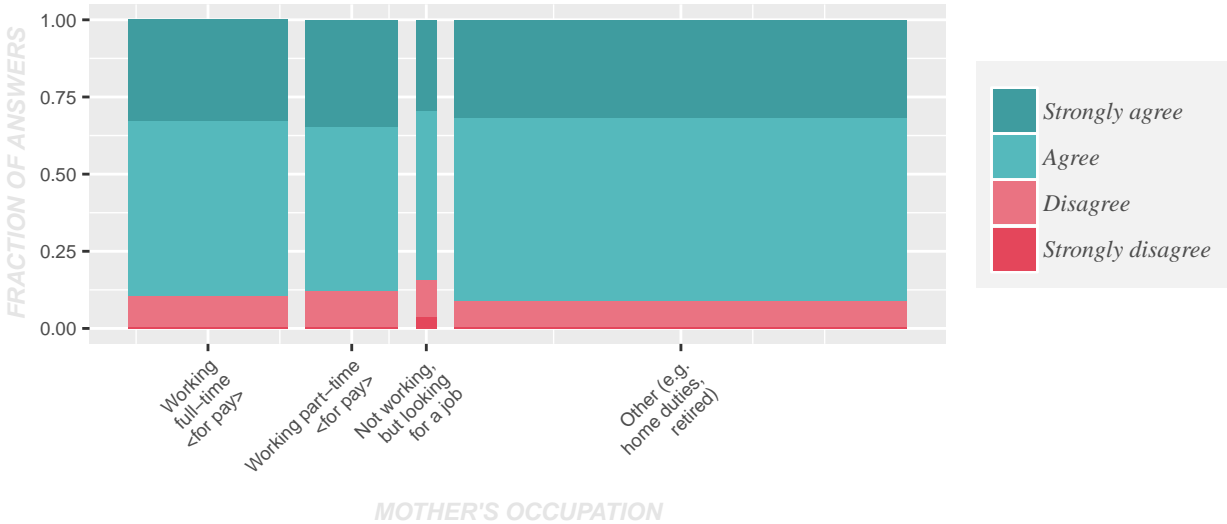
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Indonesia

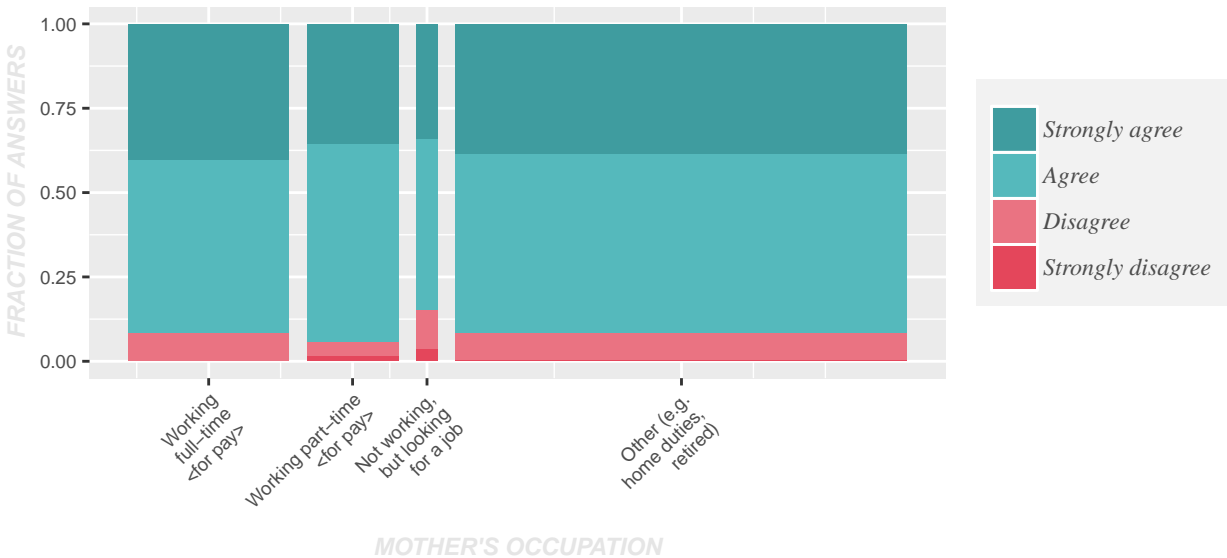
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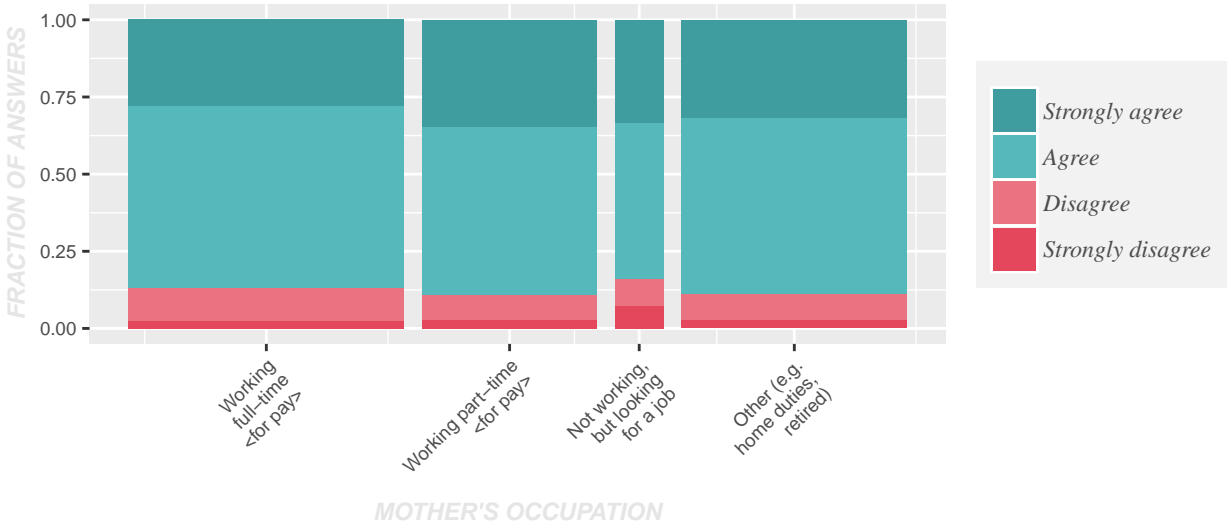
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Ireland

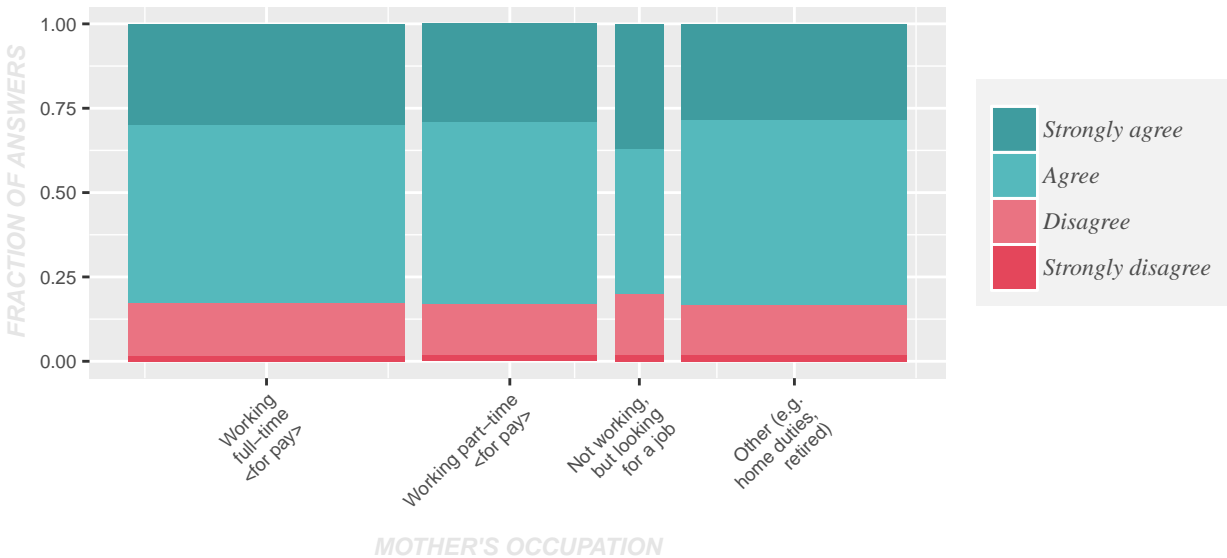
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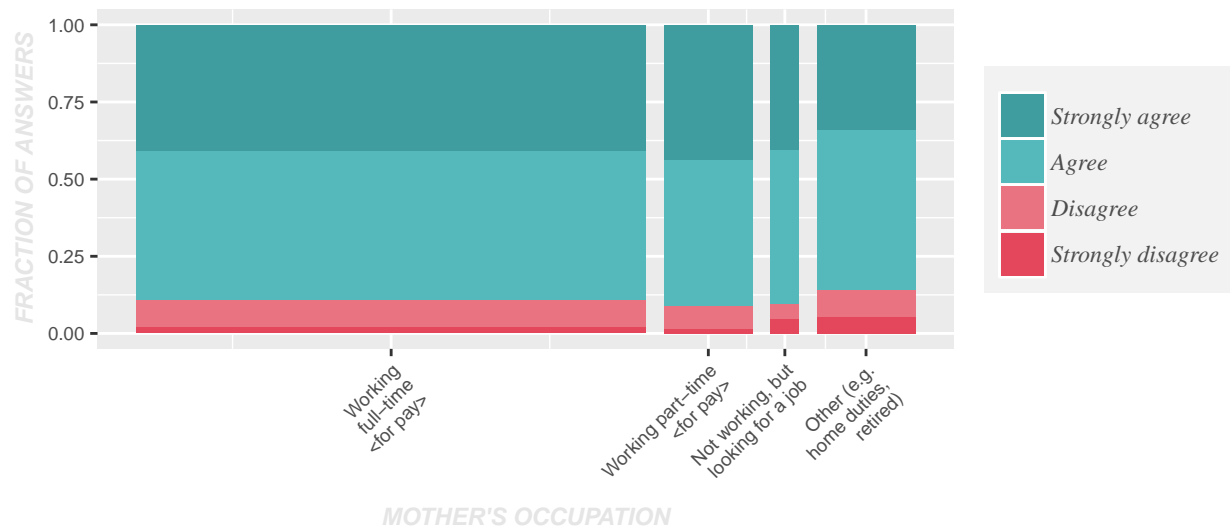
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## Iceland

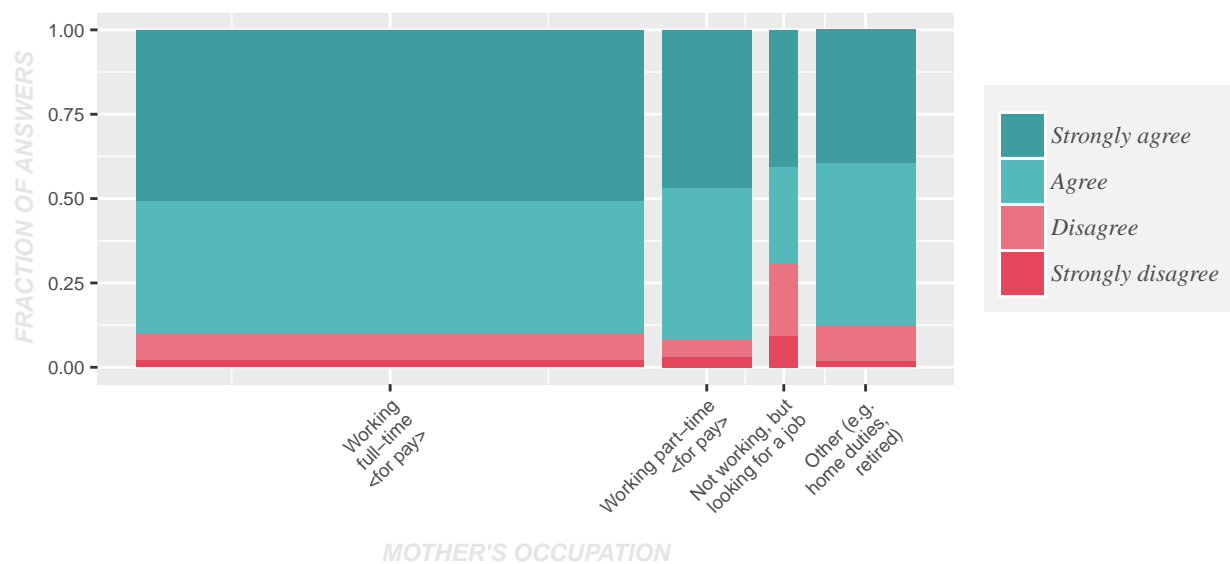
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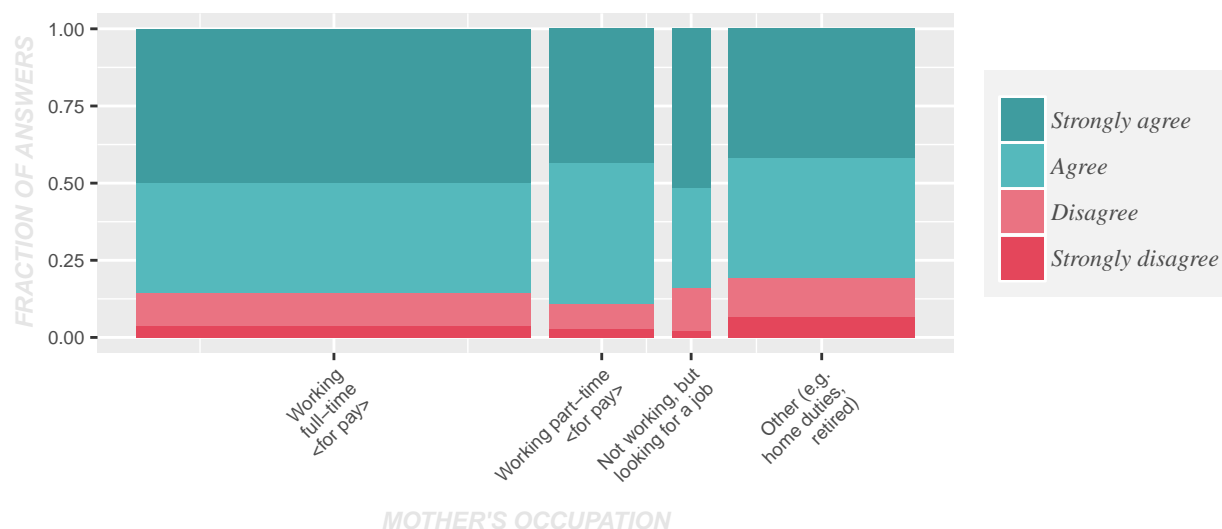
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## Israel

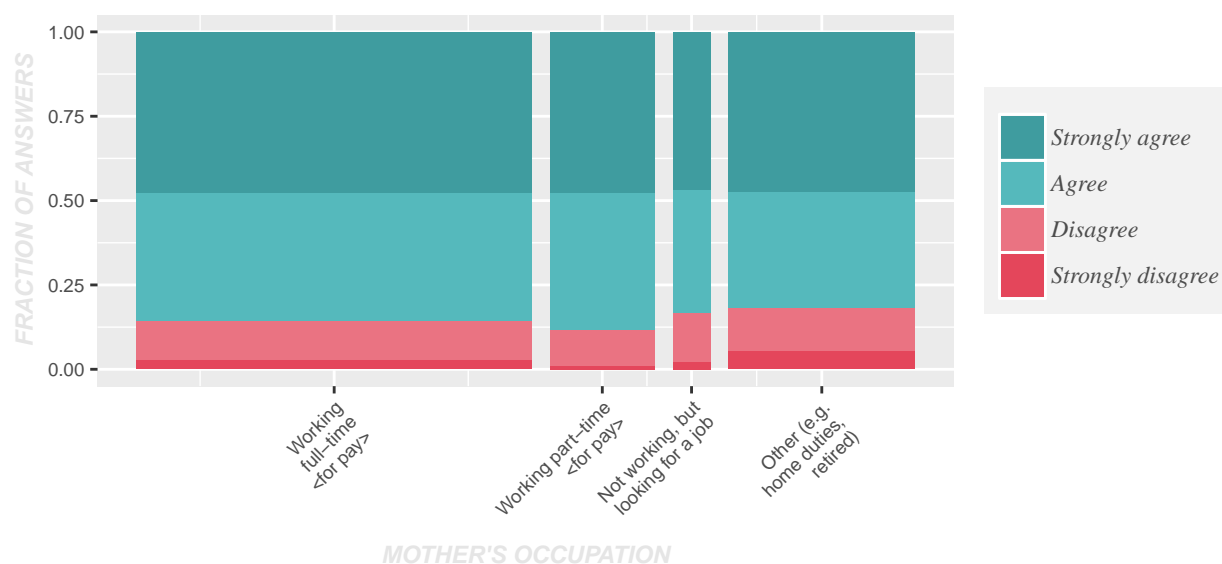
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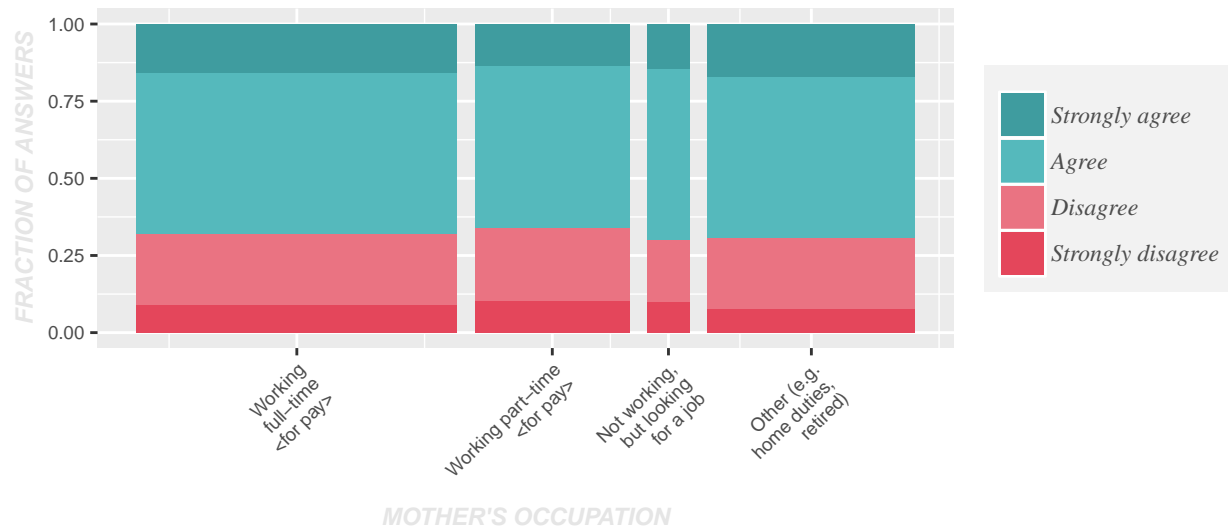
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## Italy

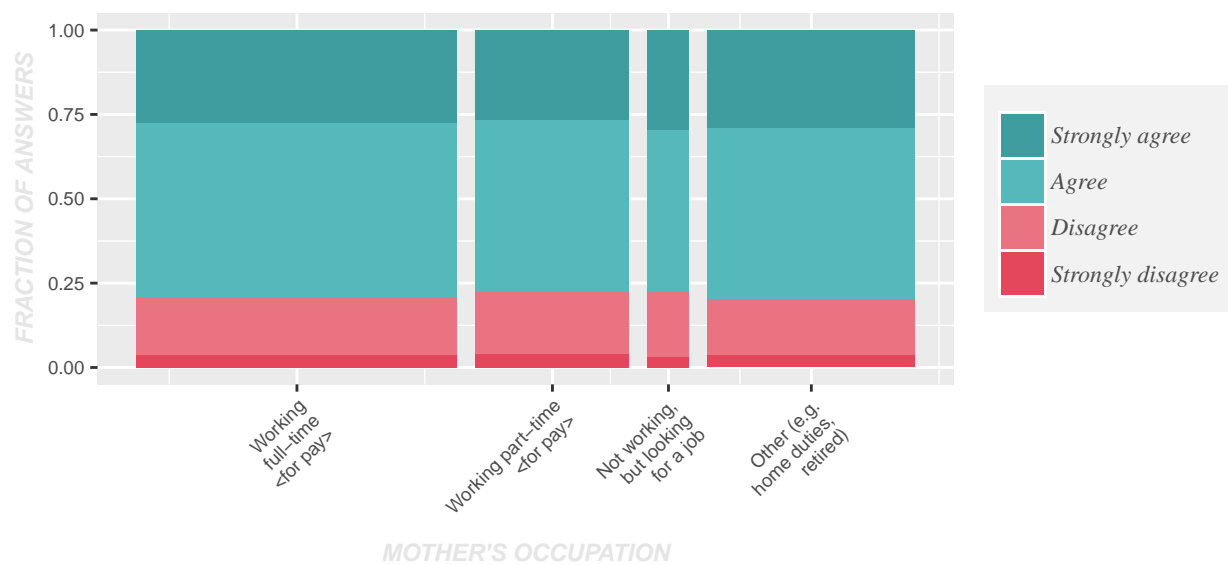
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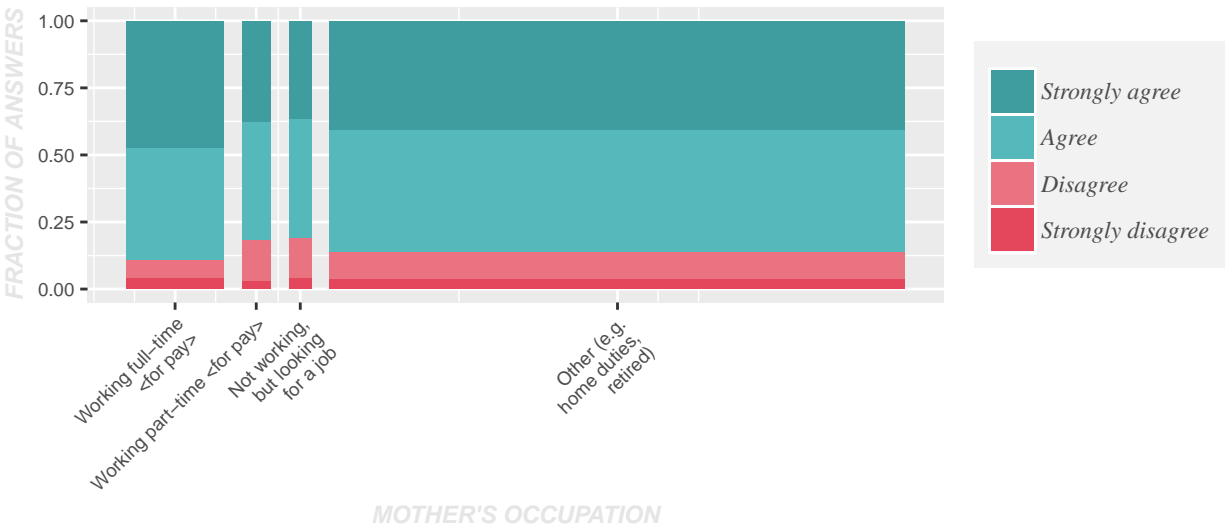




Jordan

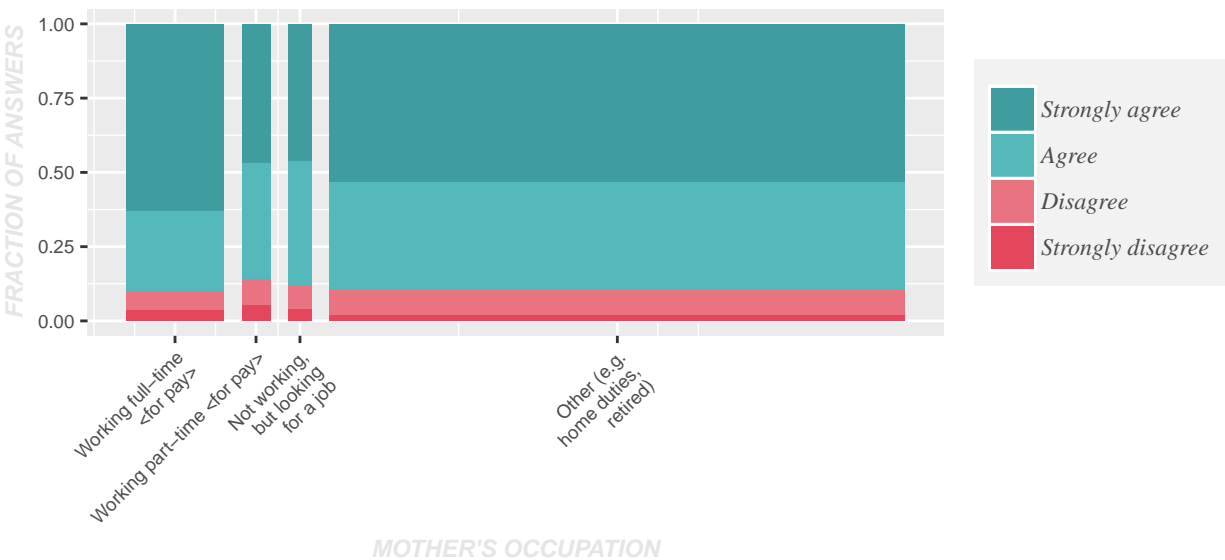
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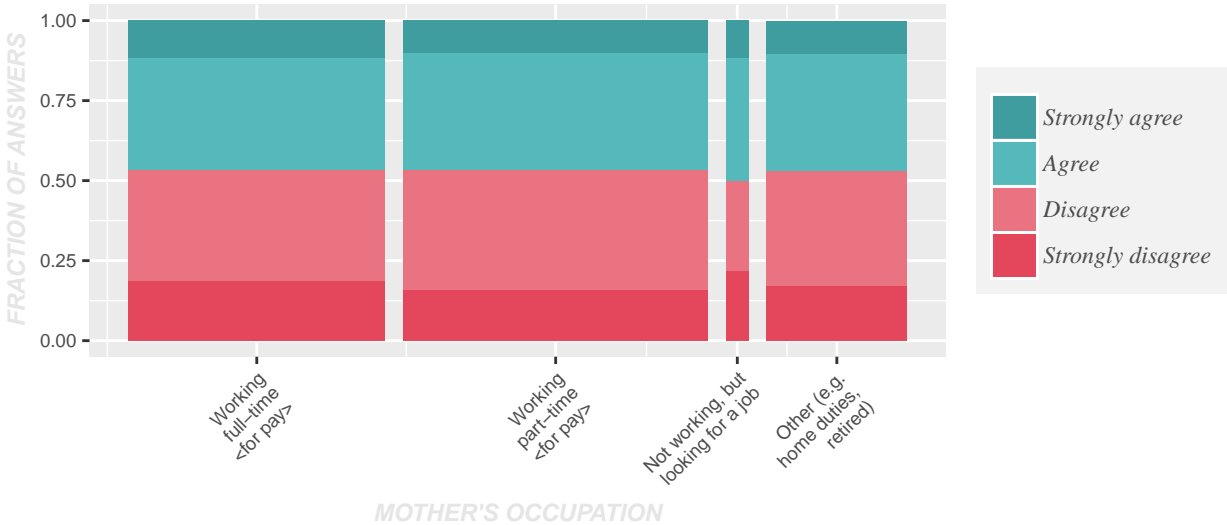
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Japan

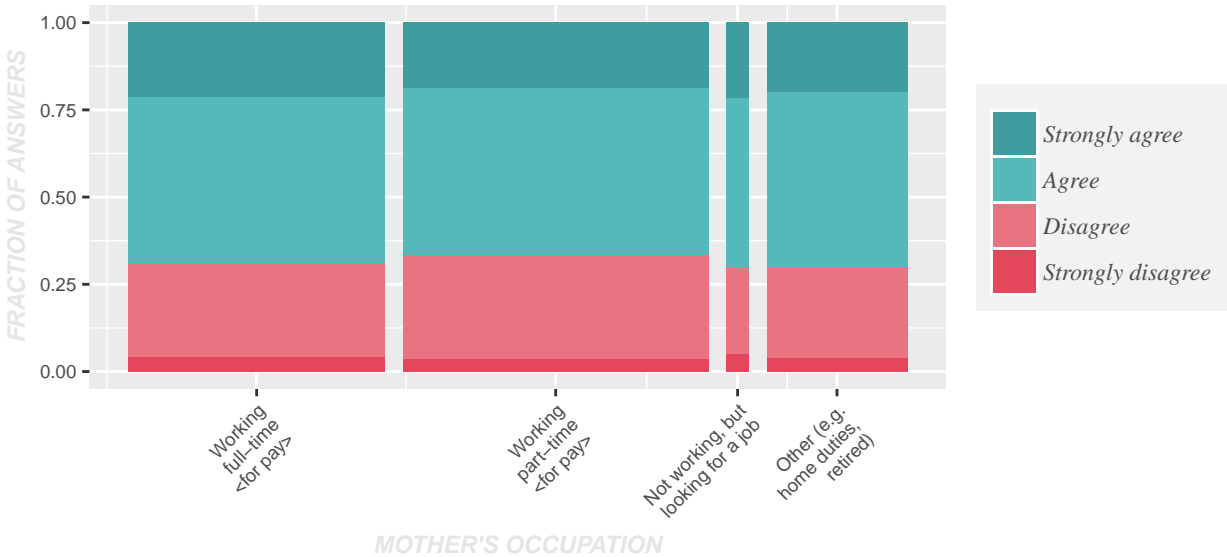
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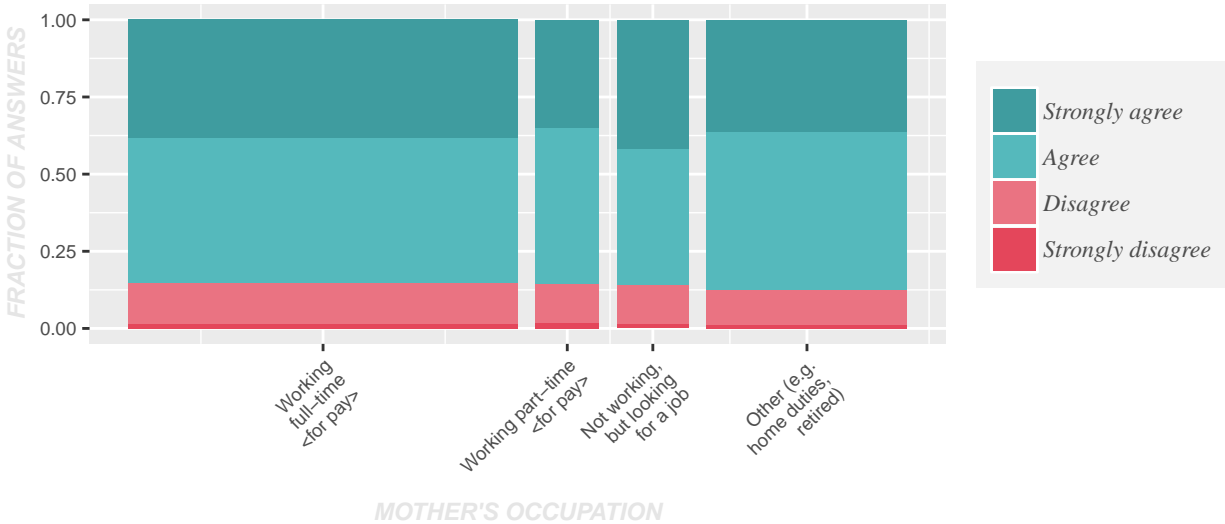
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Kazakhstan

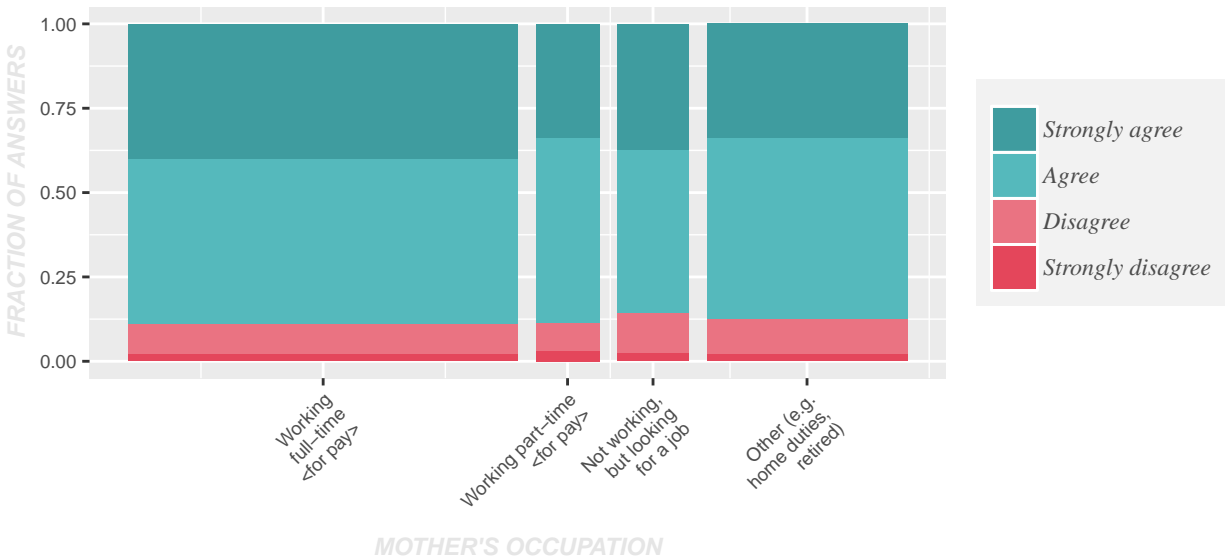
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MATH CONFIDENCE

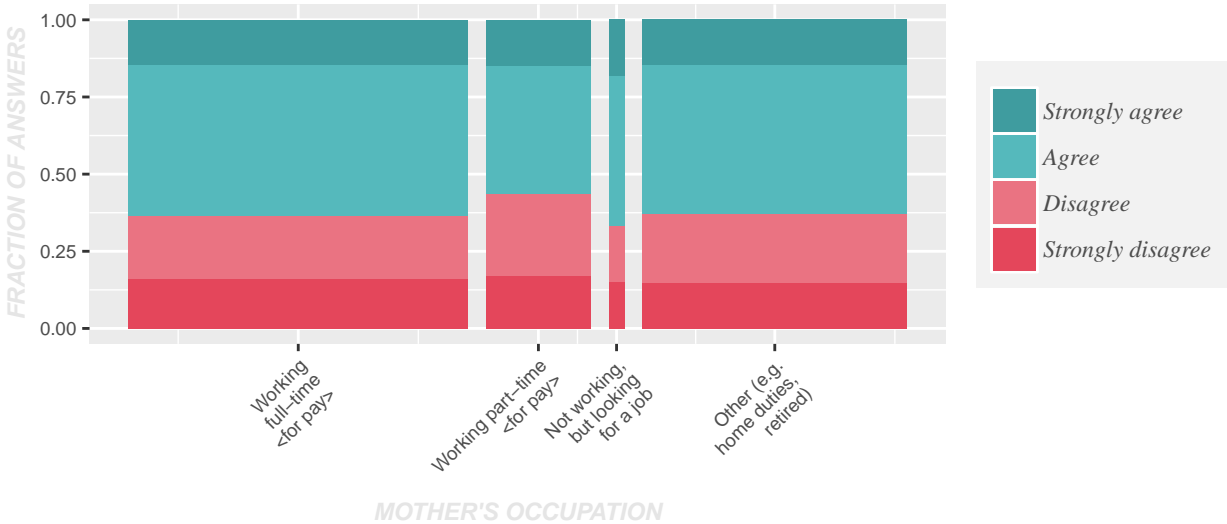
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Korea

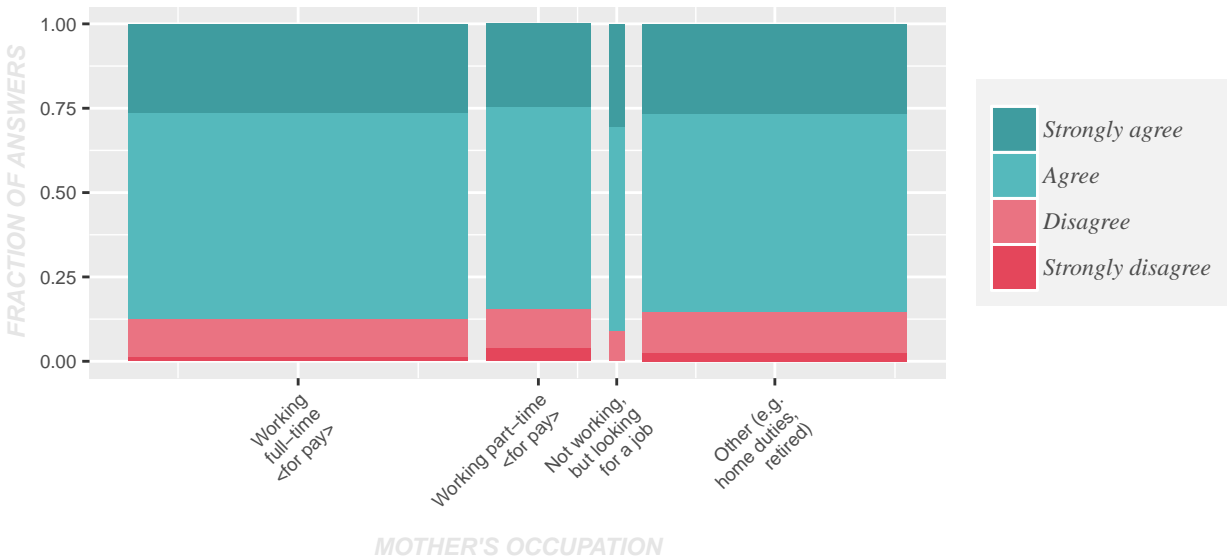
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MATH CONFIDENCE

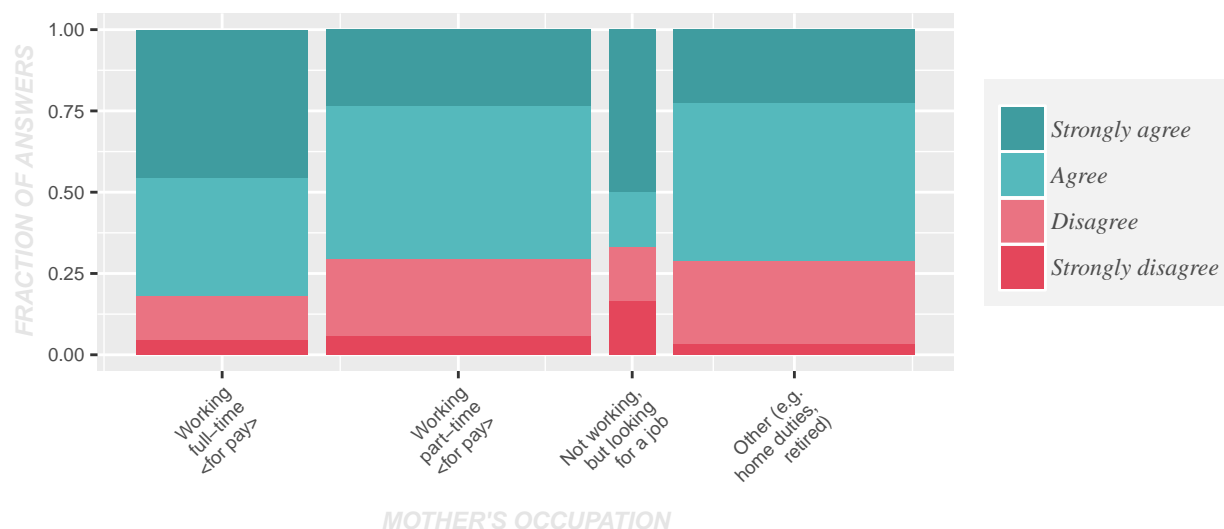
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## Liechtenstein

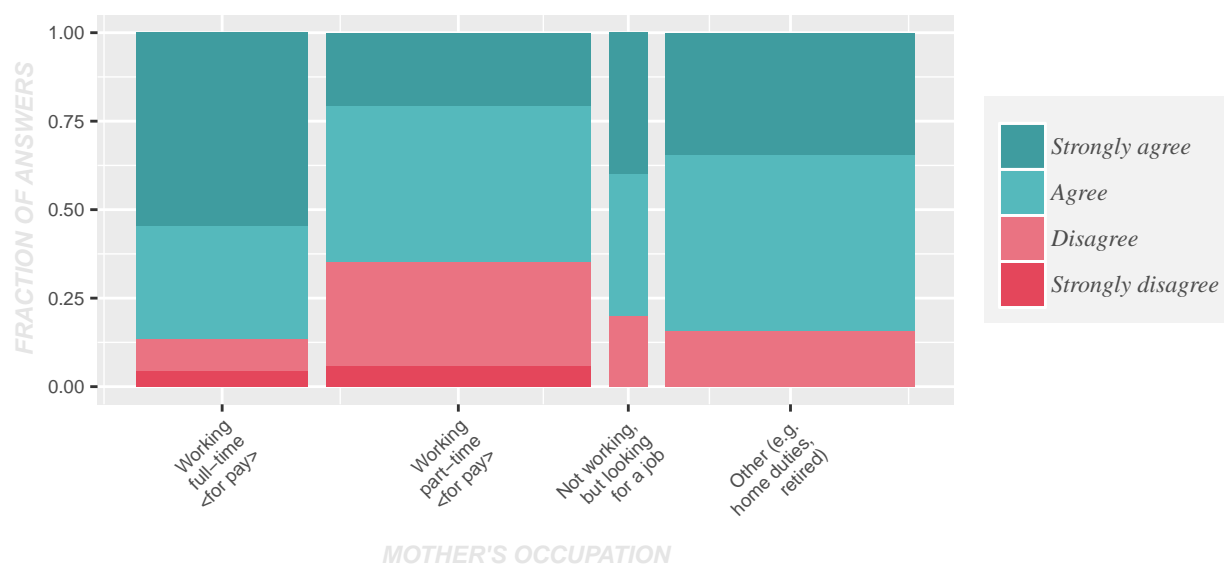
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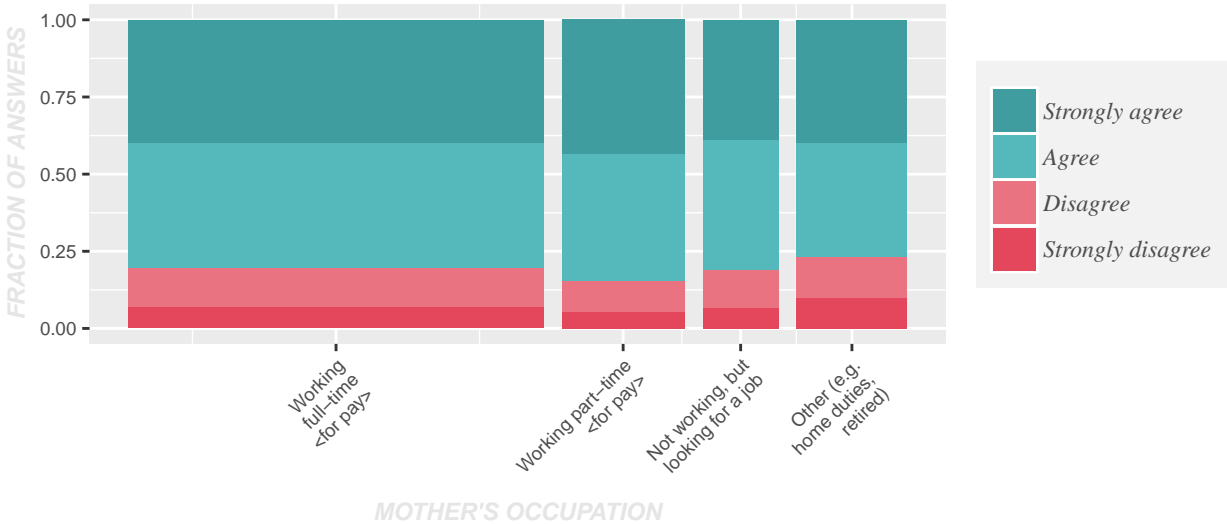
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Lithuania

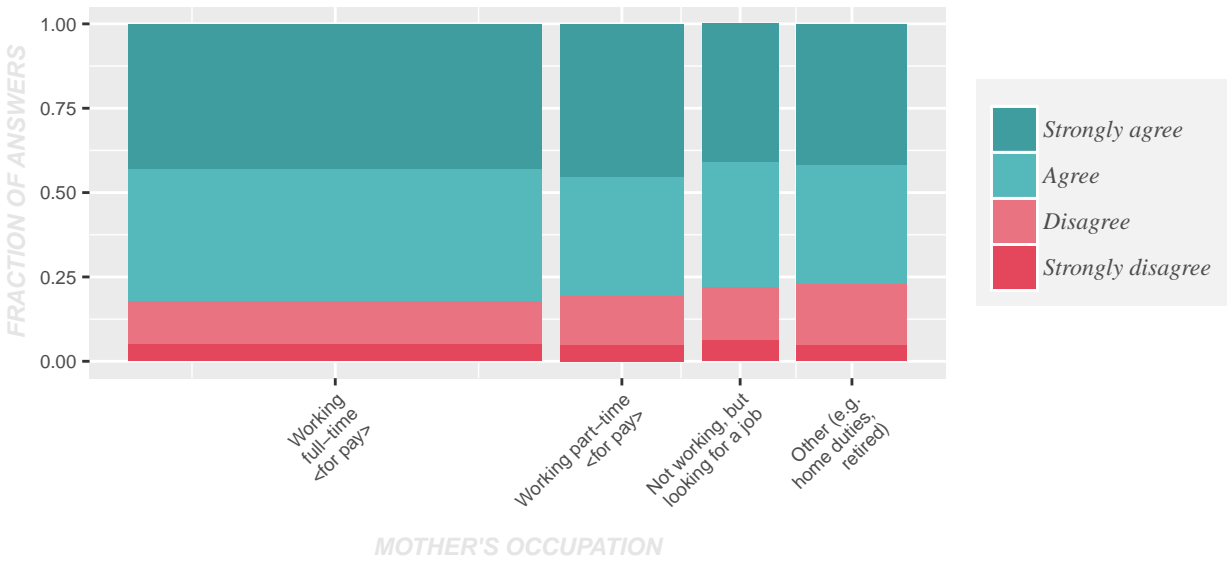
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MATH CONFIDENCE

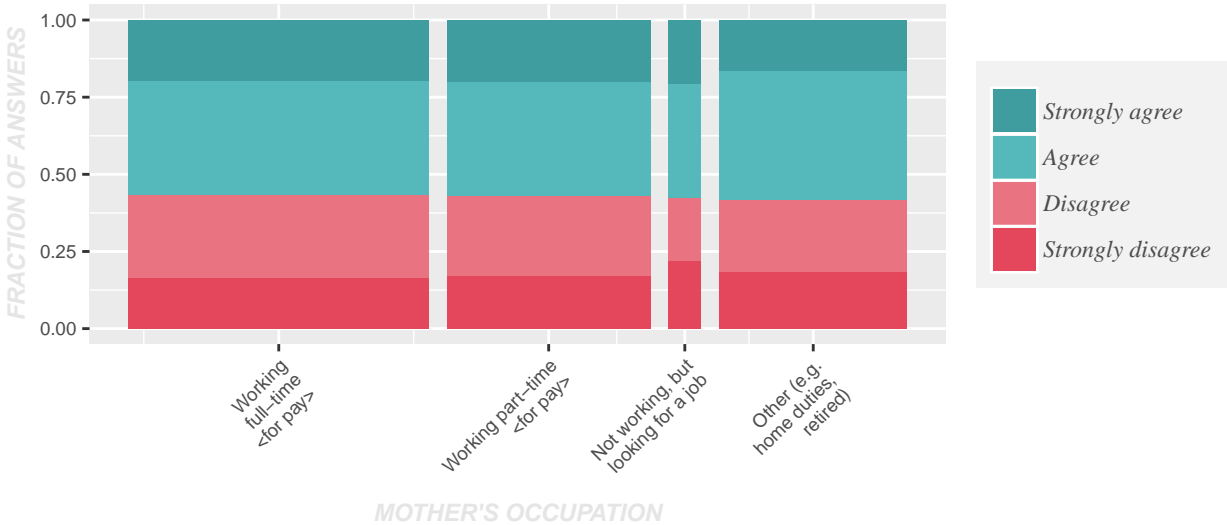
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Luxembourg

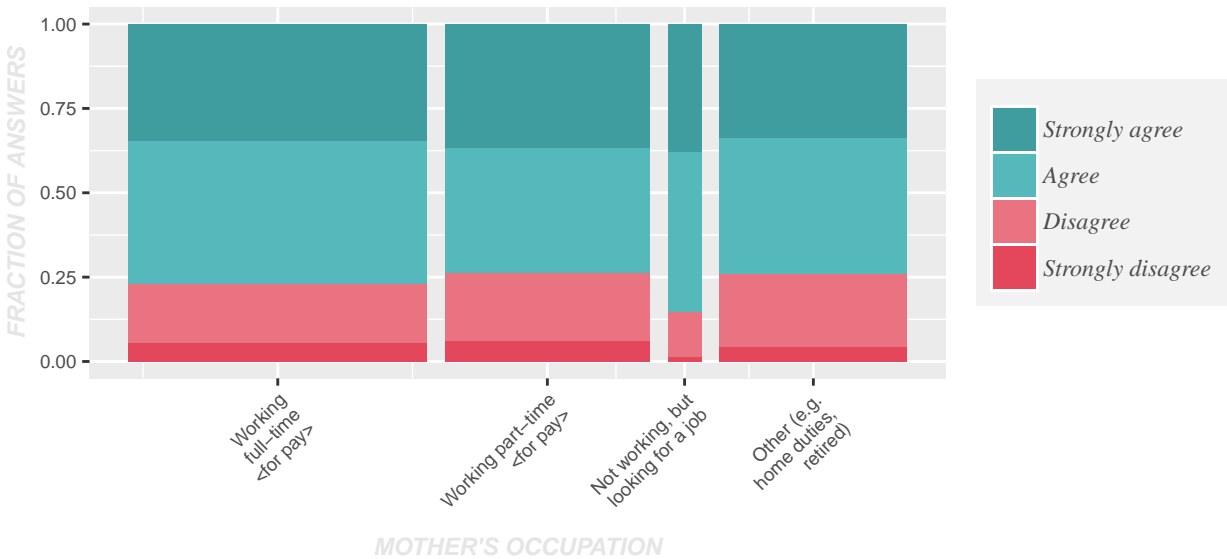
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MATH CONFIDENCE

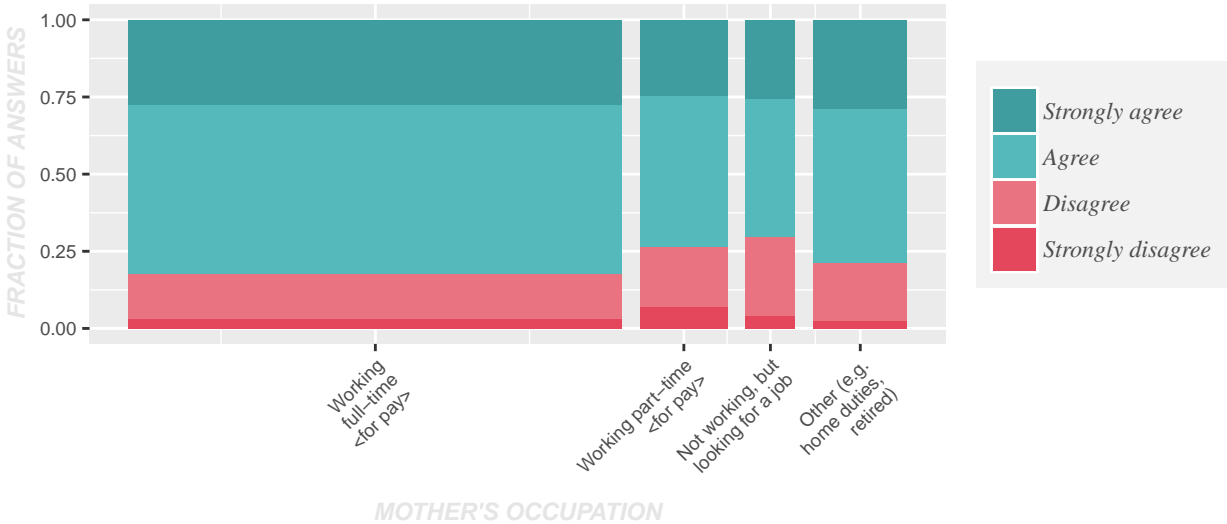
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Latvia

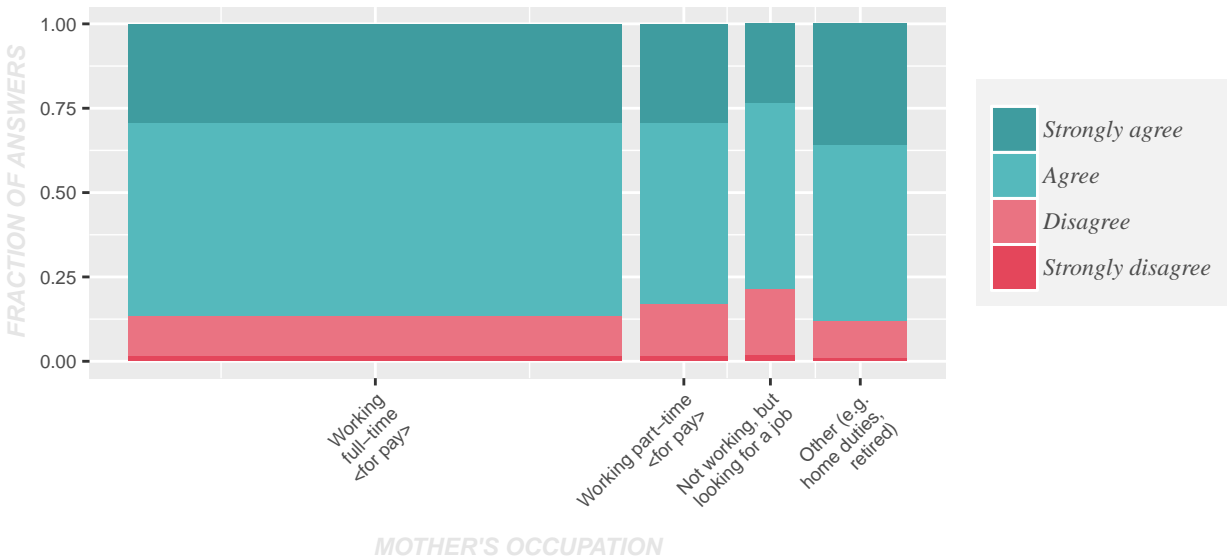
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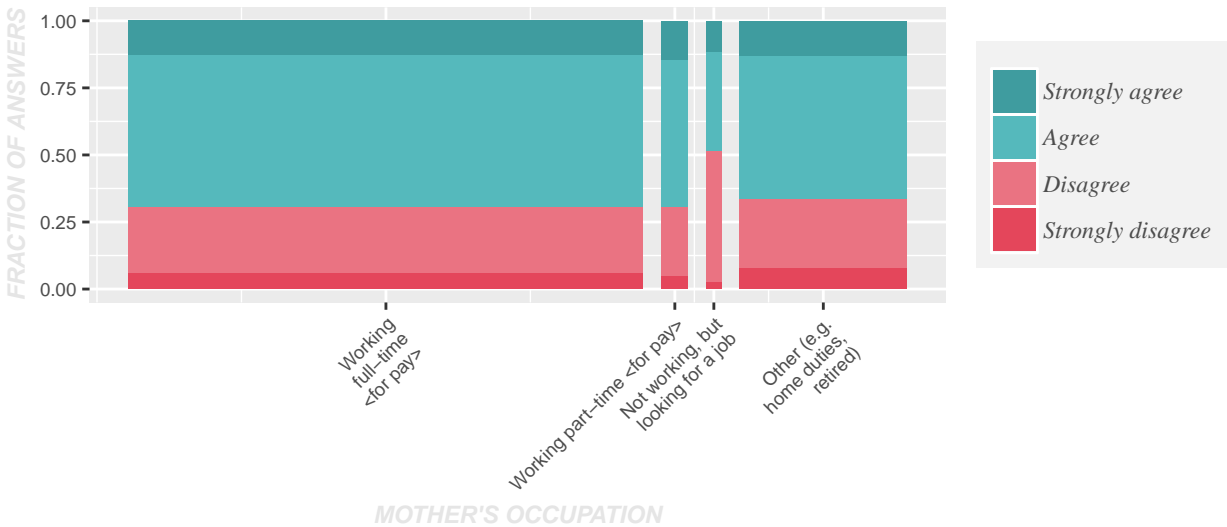




Macao-China

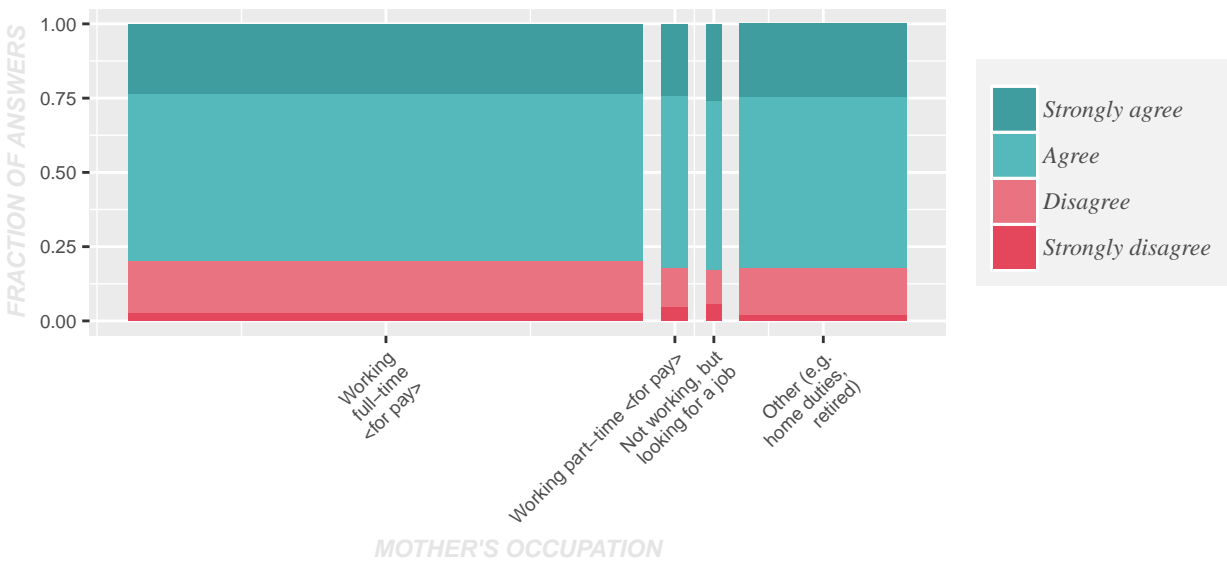
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MATH CONFIDENCE

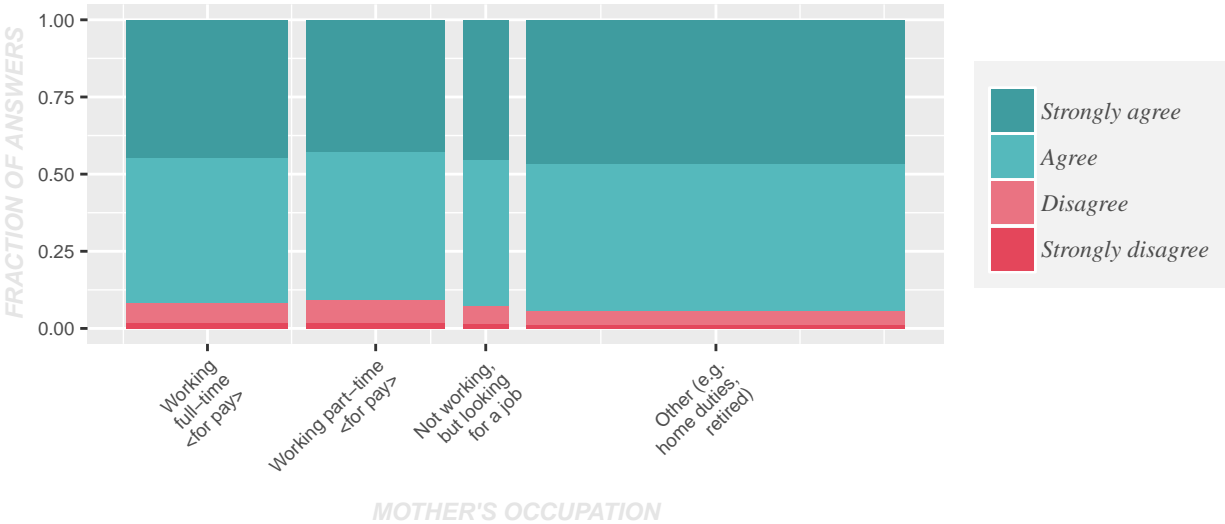
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Mexico

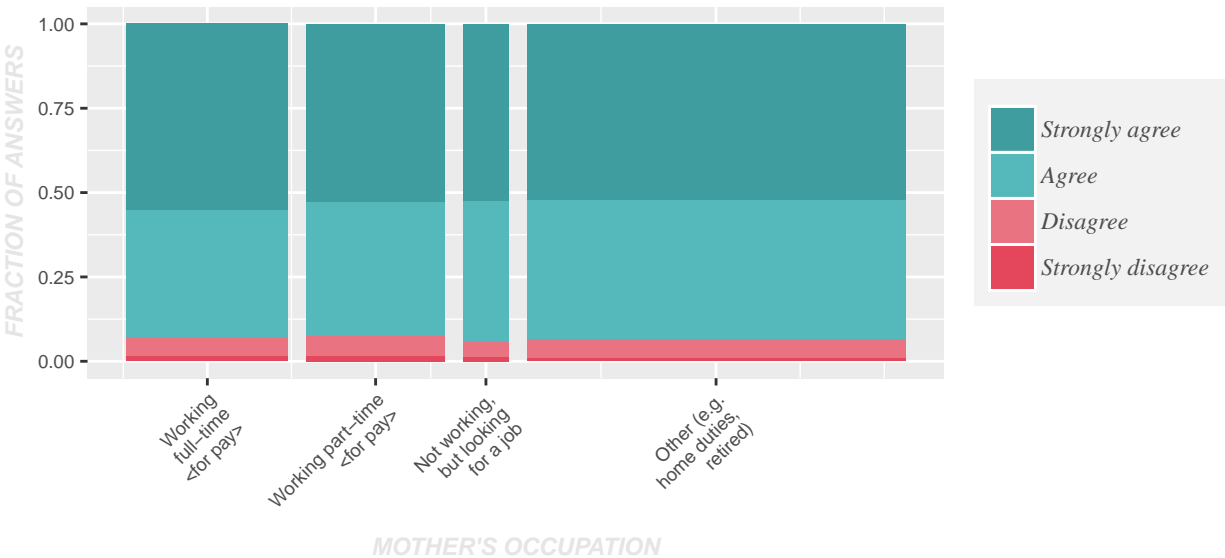
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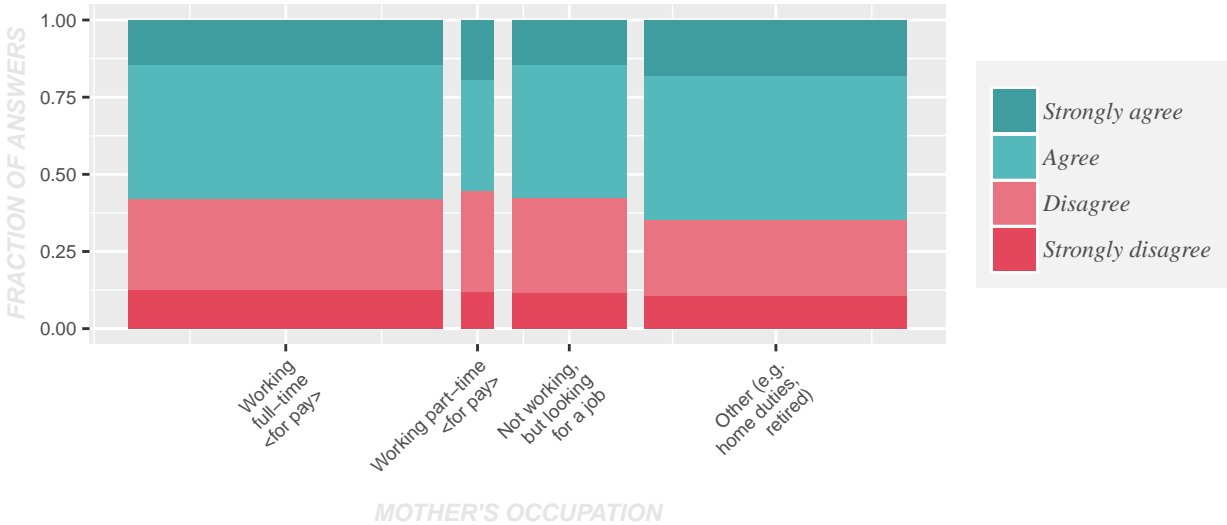
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Montenegro

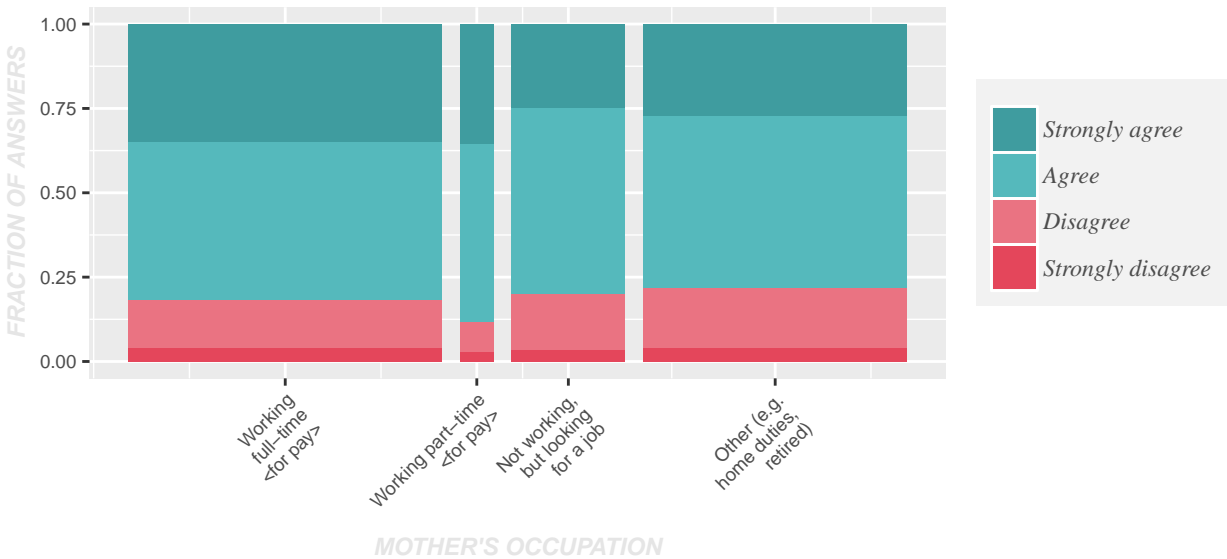
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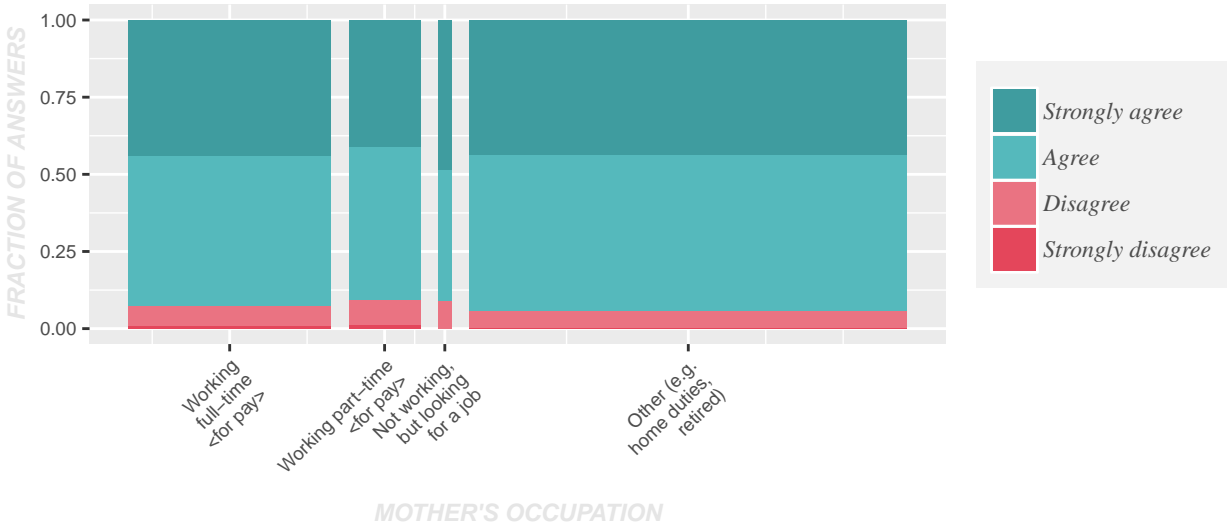
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Malaysia

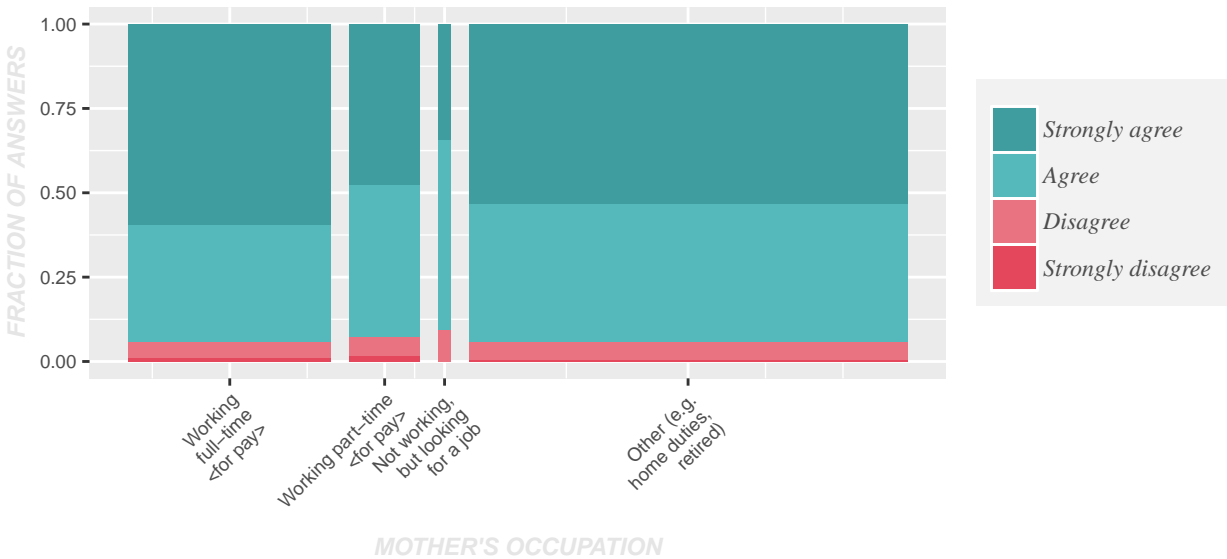
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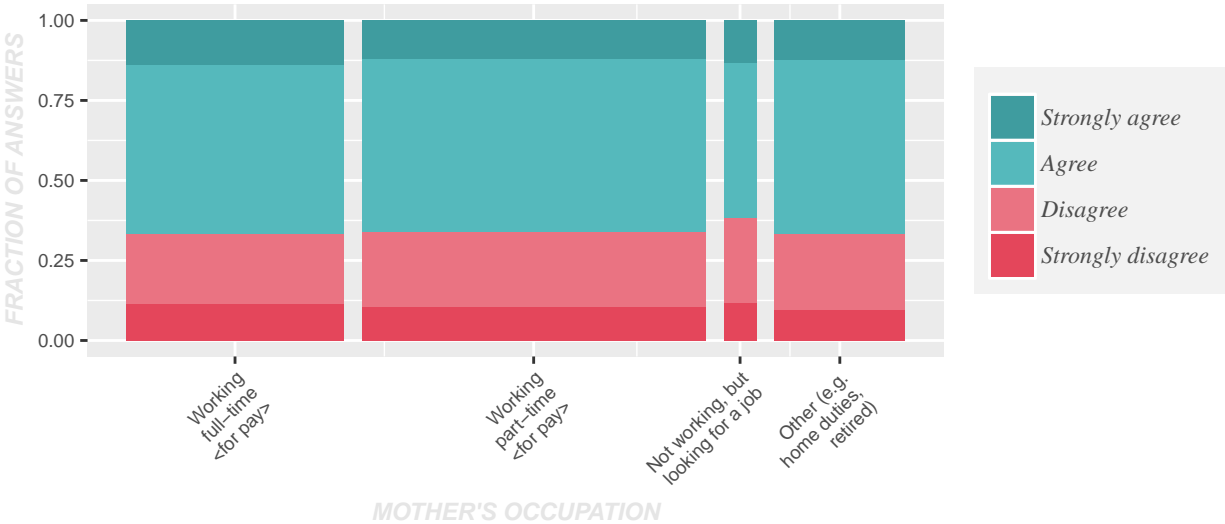
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Netherlands

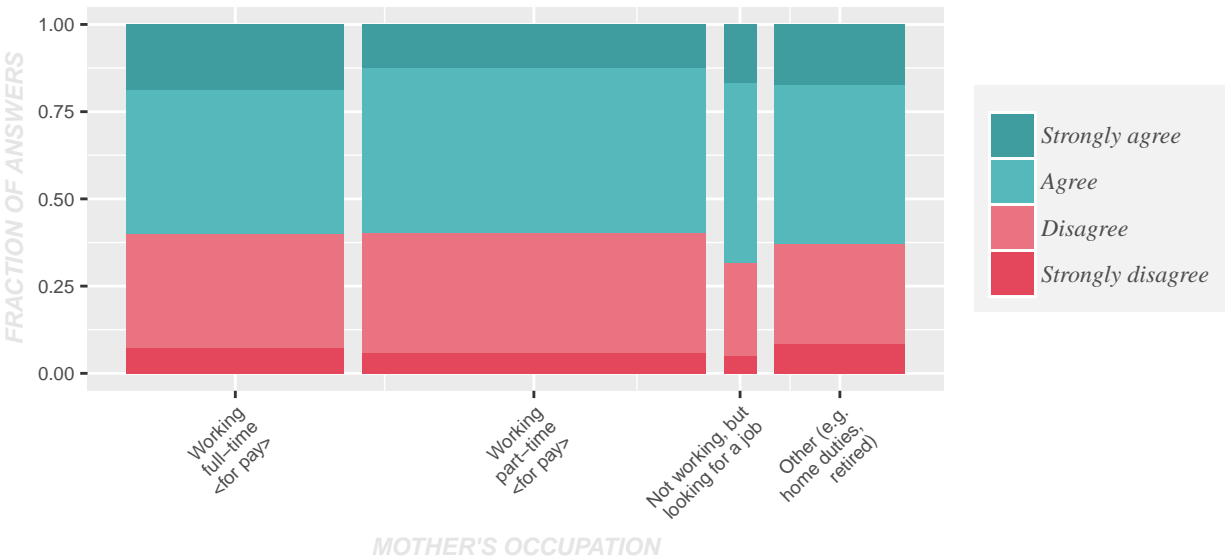
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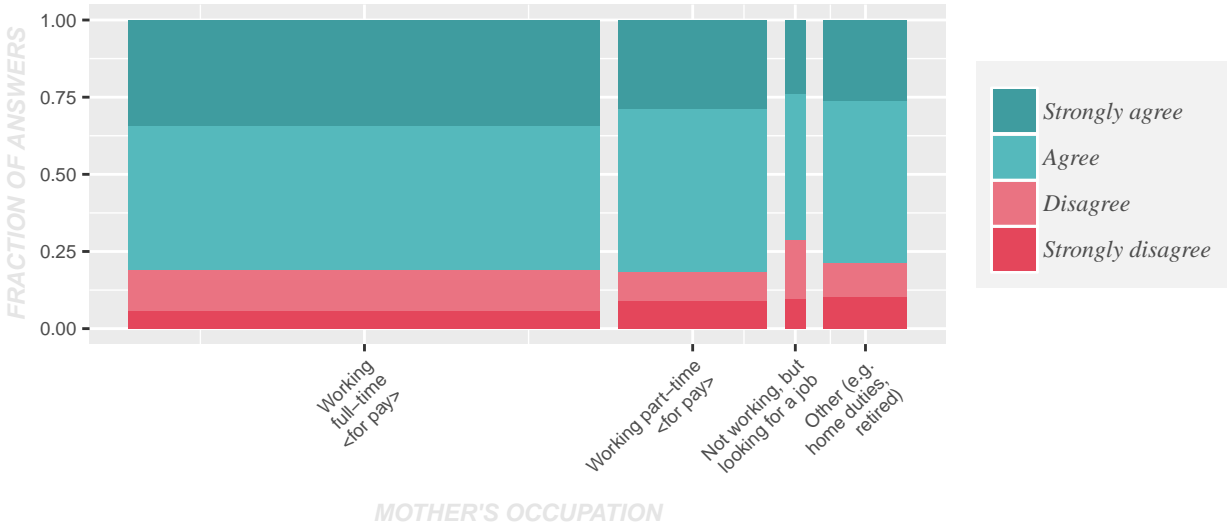
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Norway

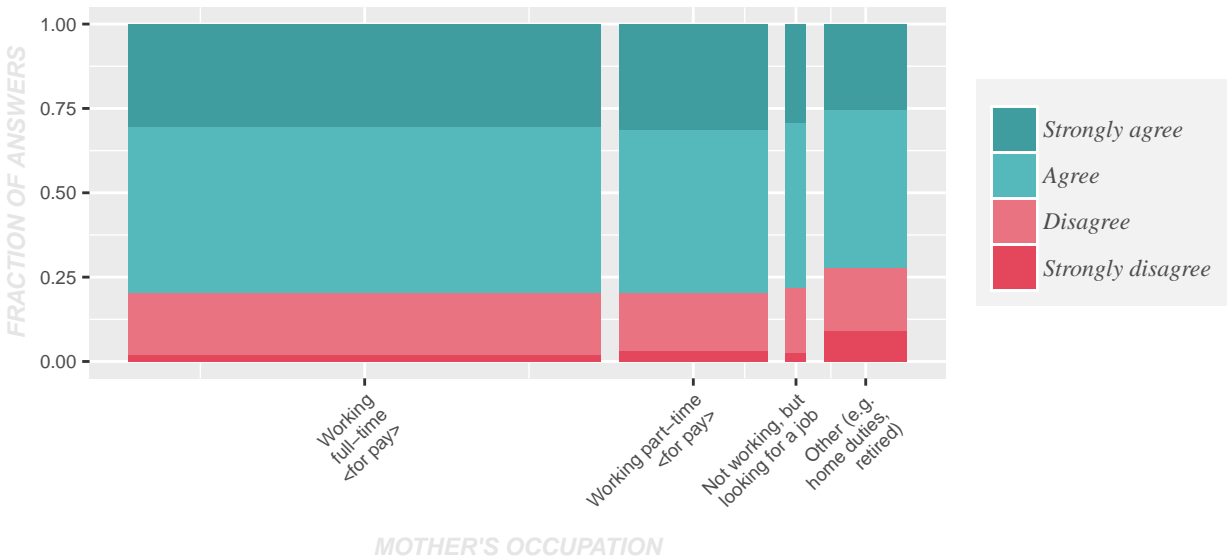
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MATH CONFIDENCE

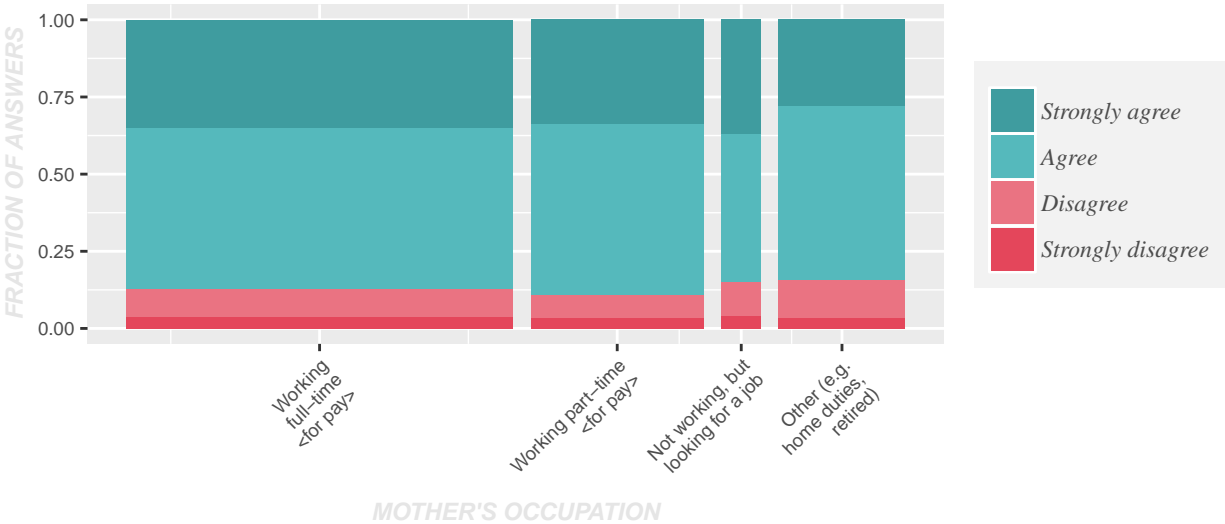
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New Zealand

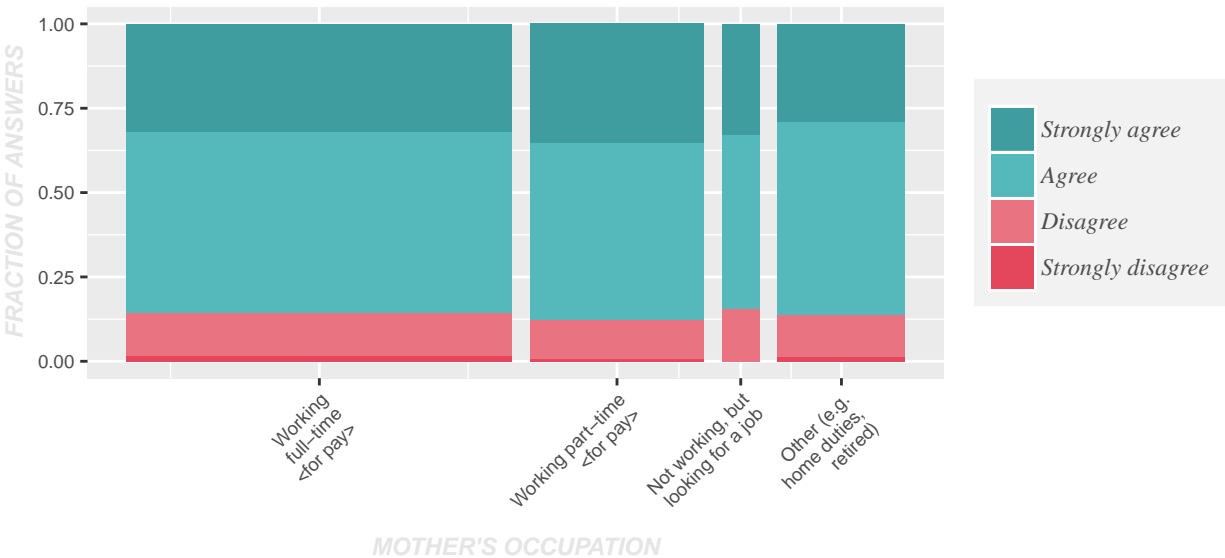
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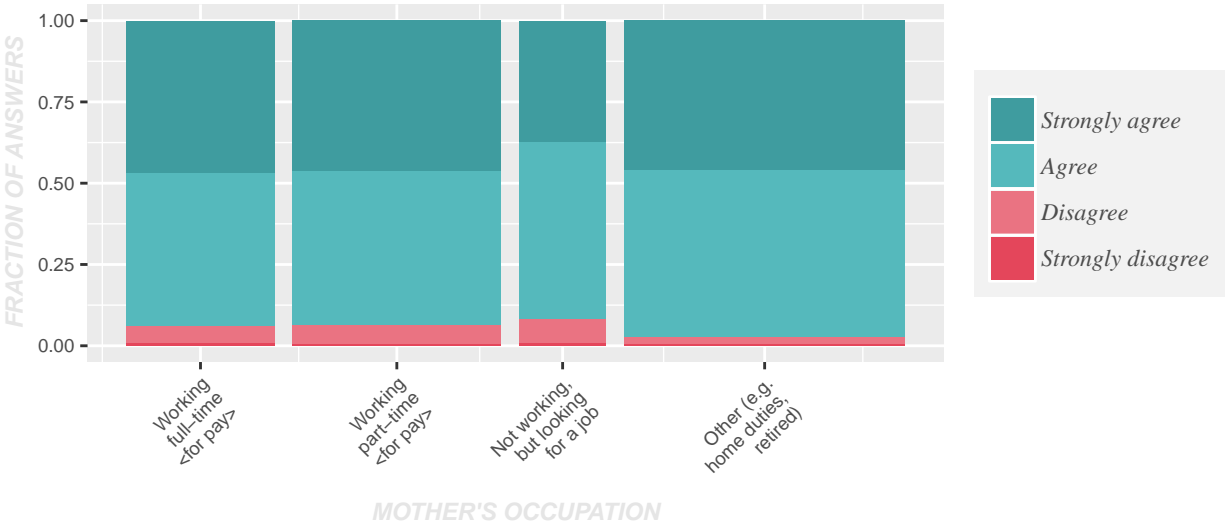
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Peru

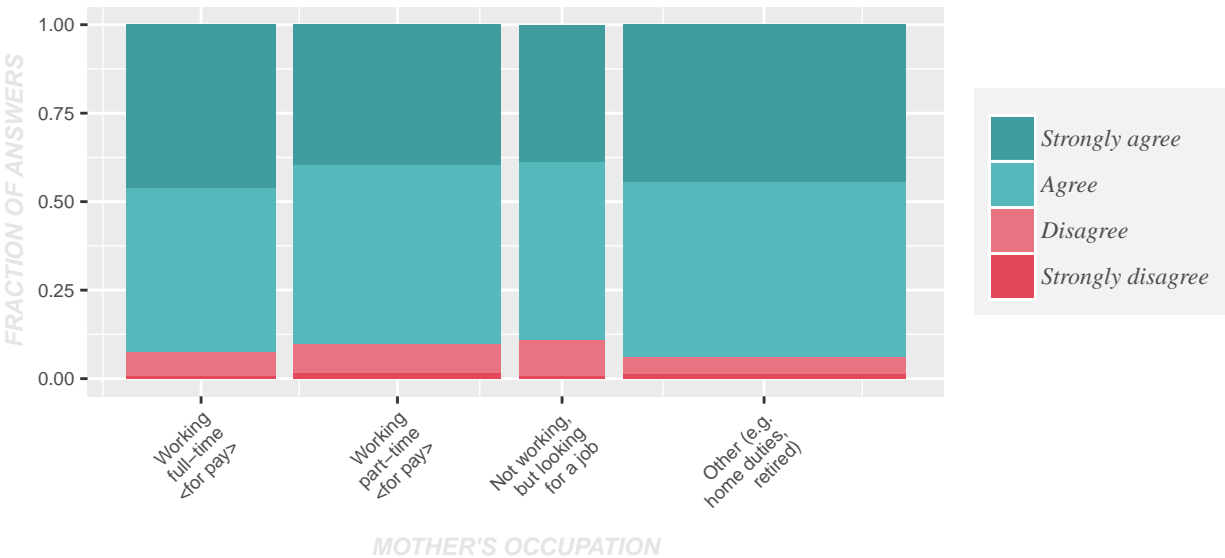
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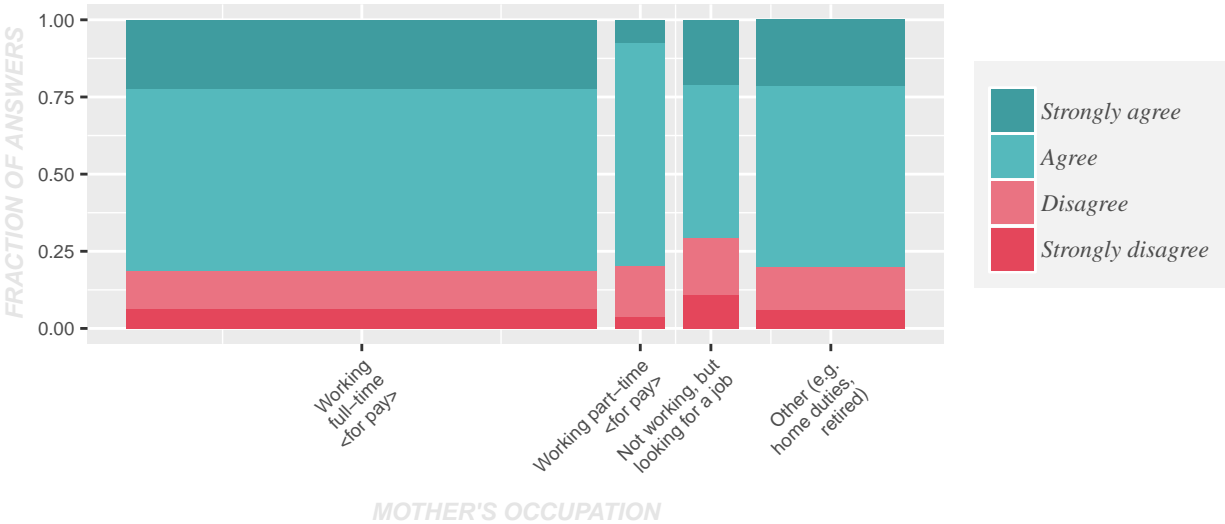




Poland

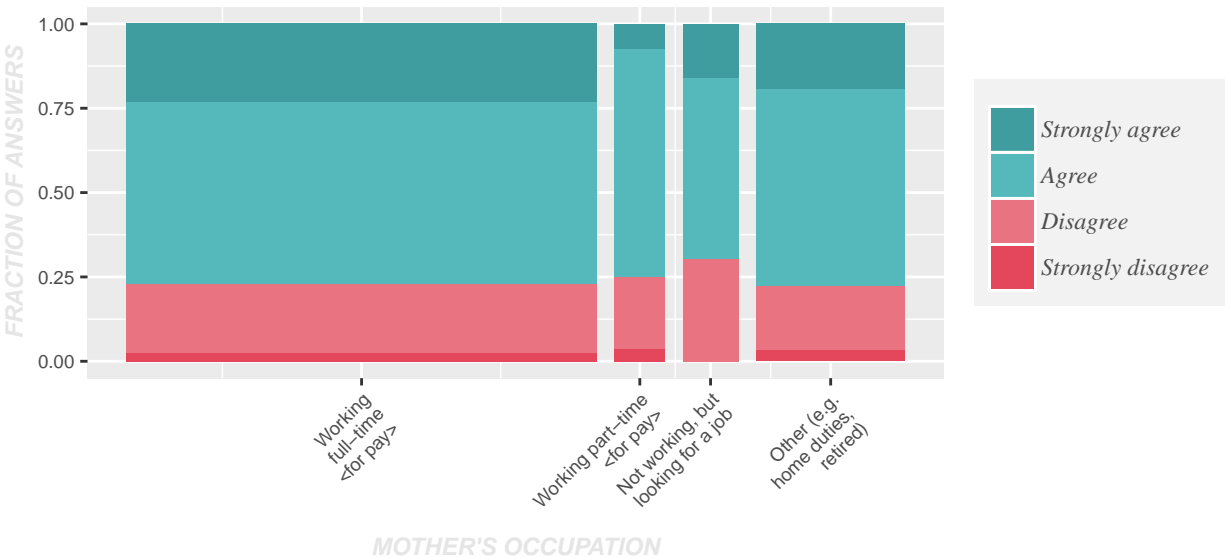
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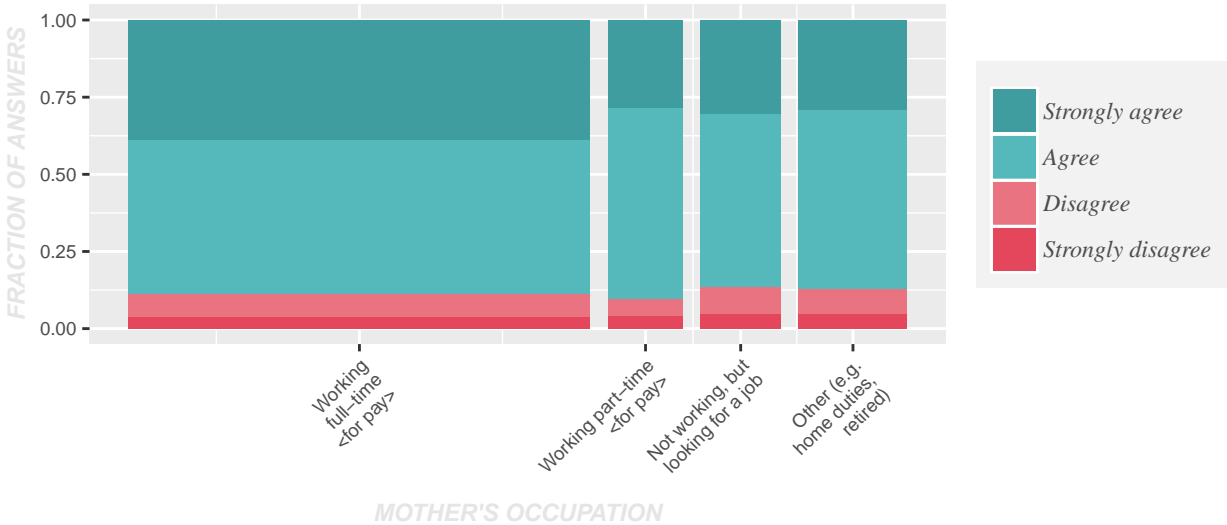
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Portugal

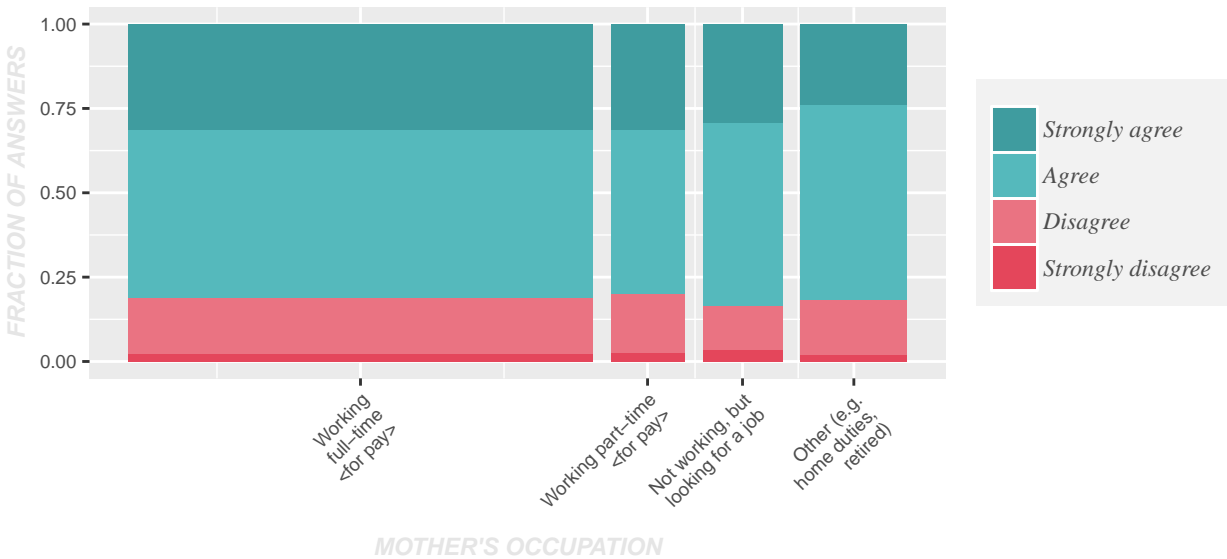
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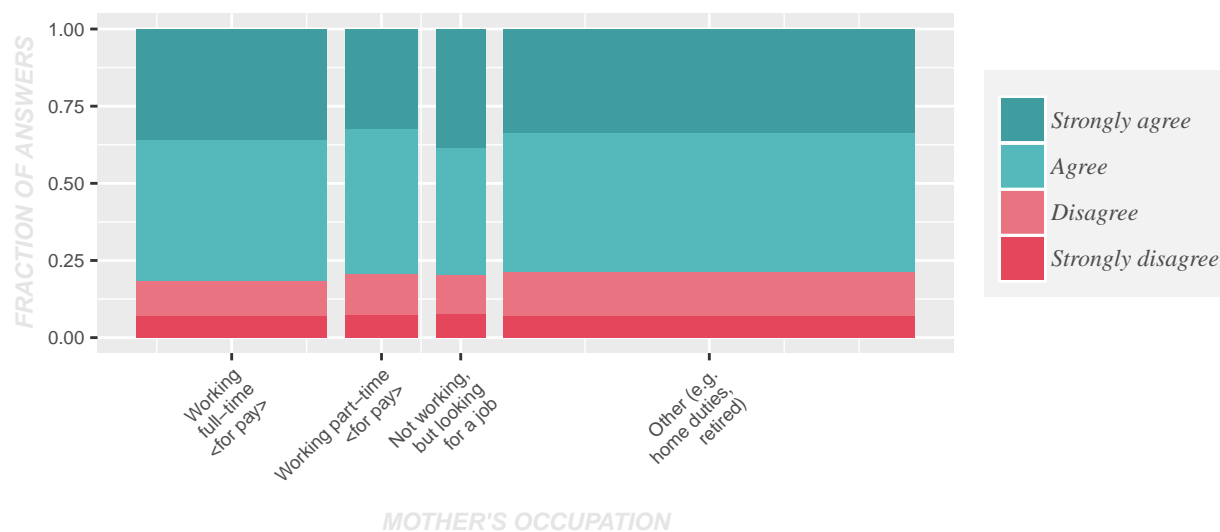
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## Qatar

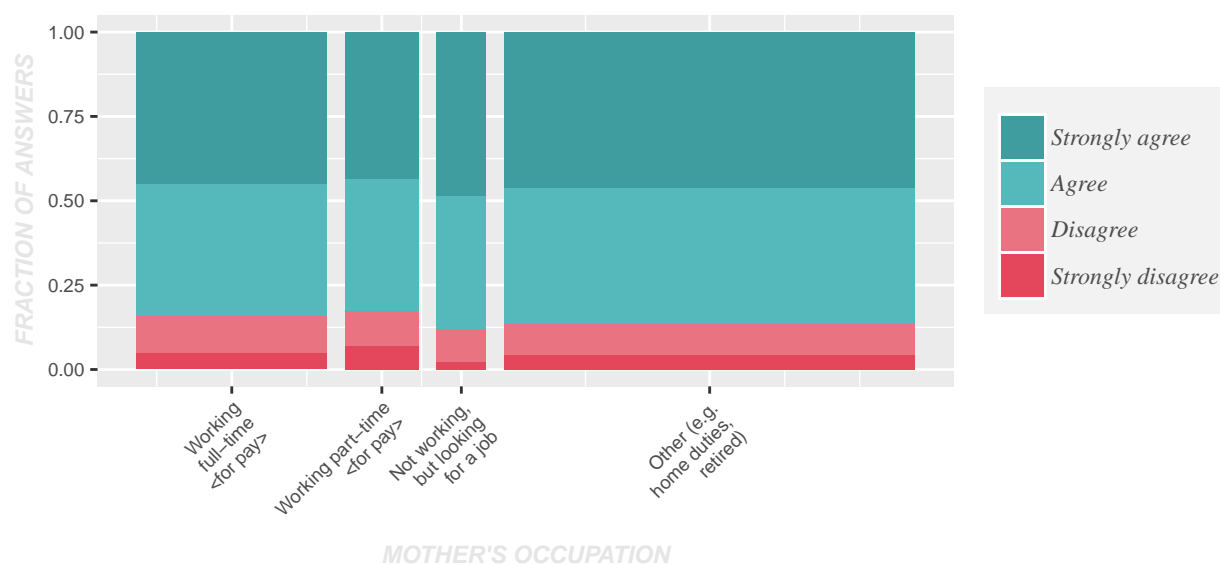
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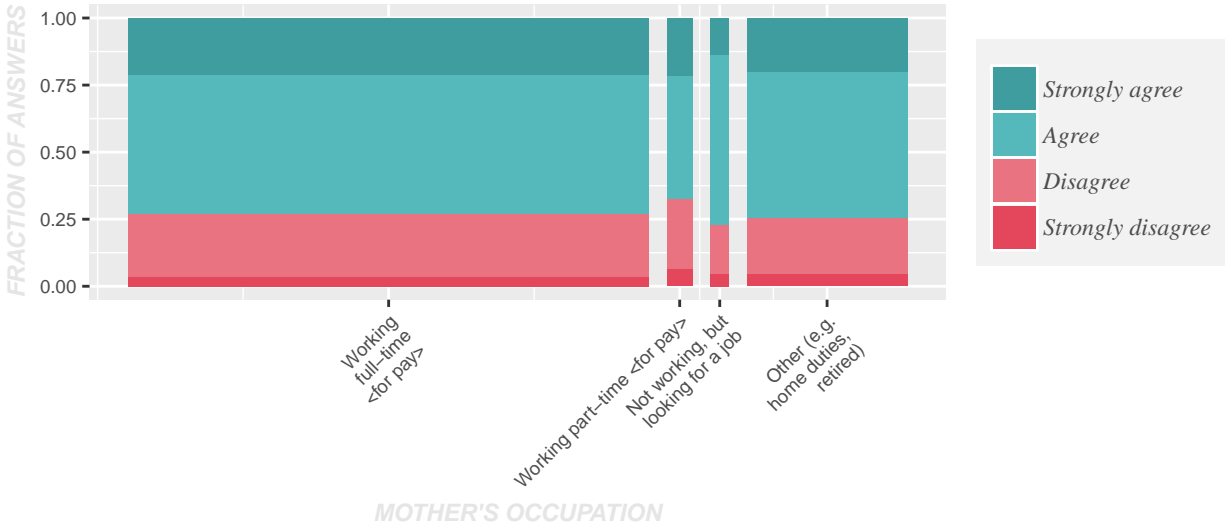
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China-Shanghai

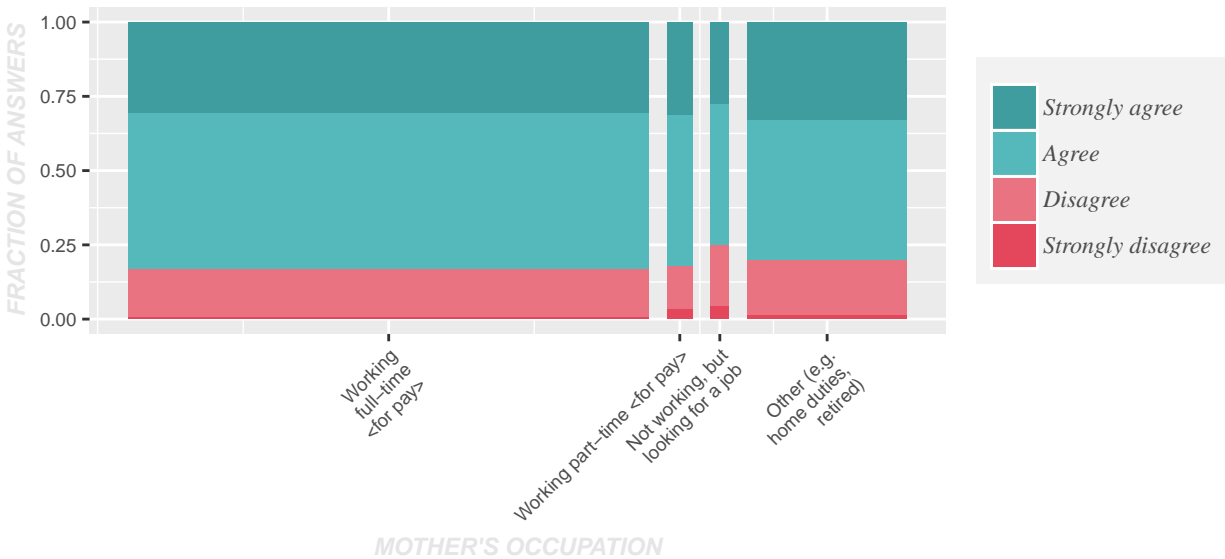
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MATH CONFIDENCE

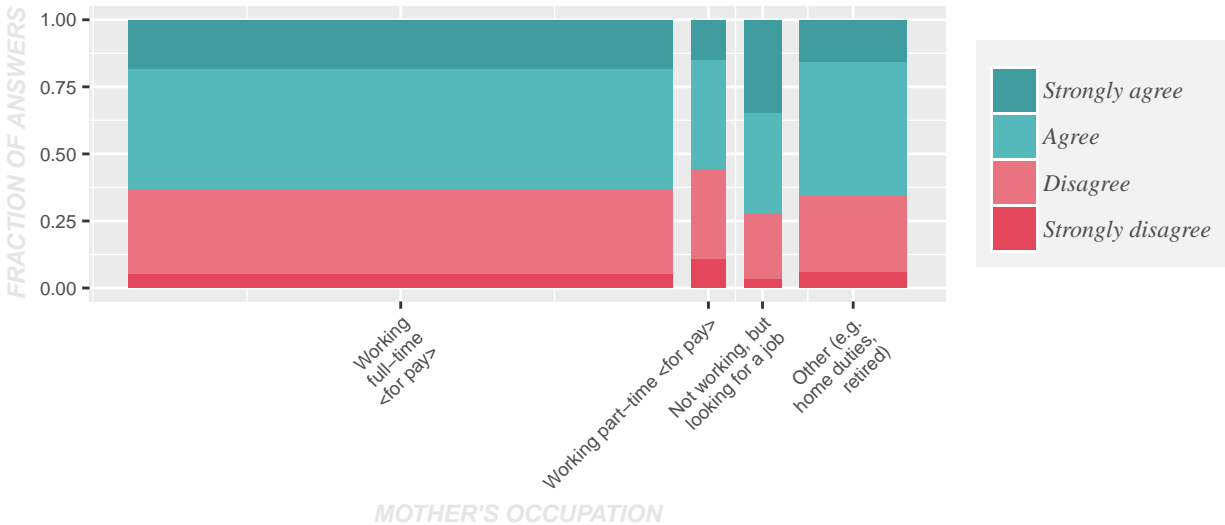
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Perm(Russian Federation)

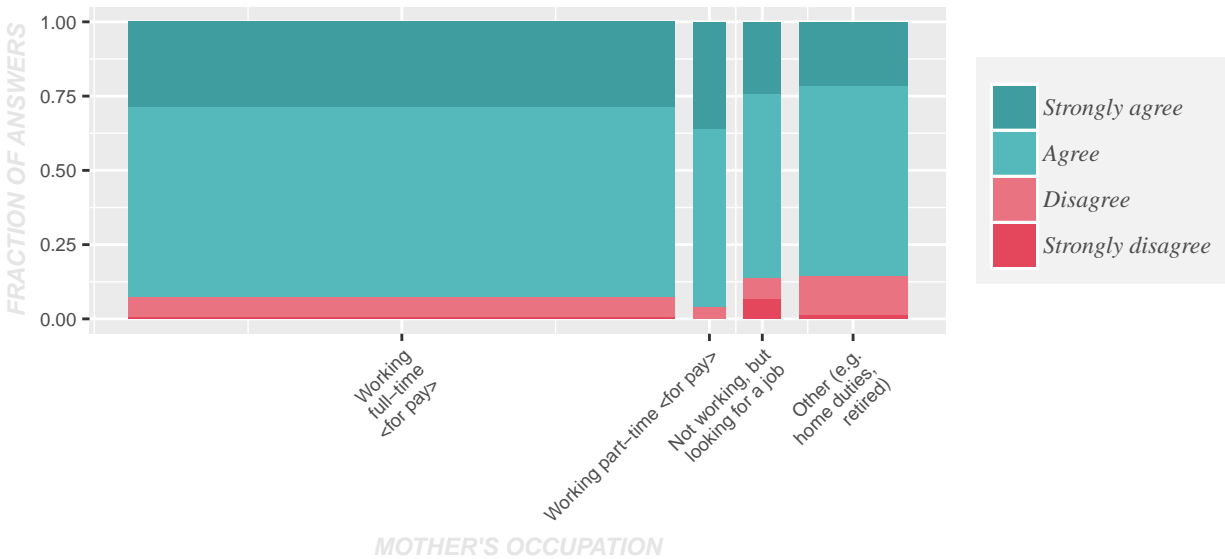
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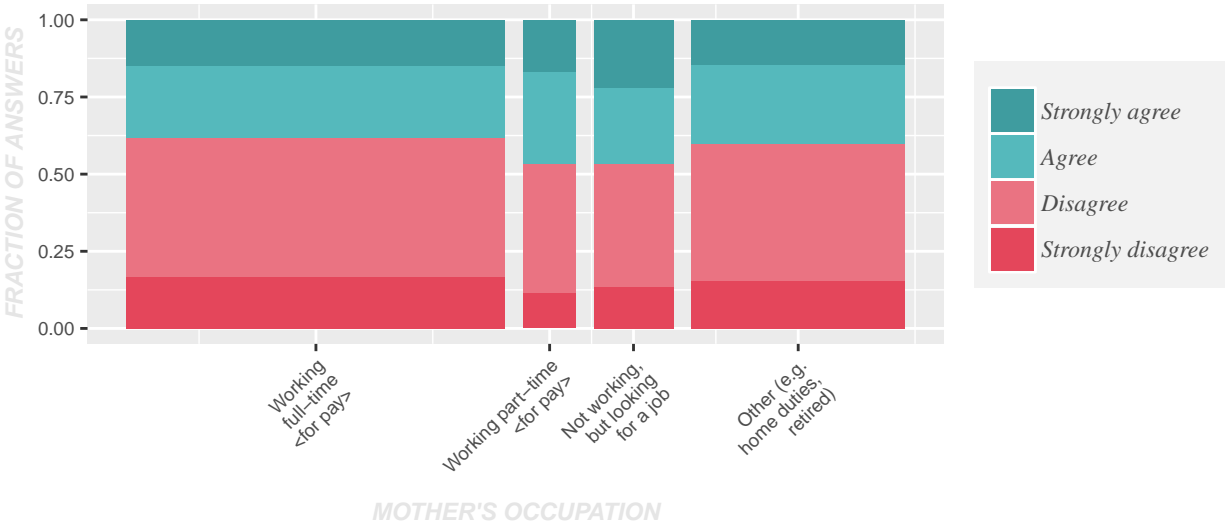
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Romania

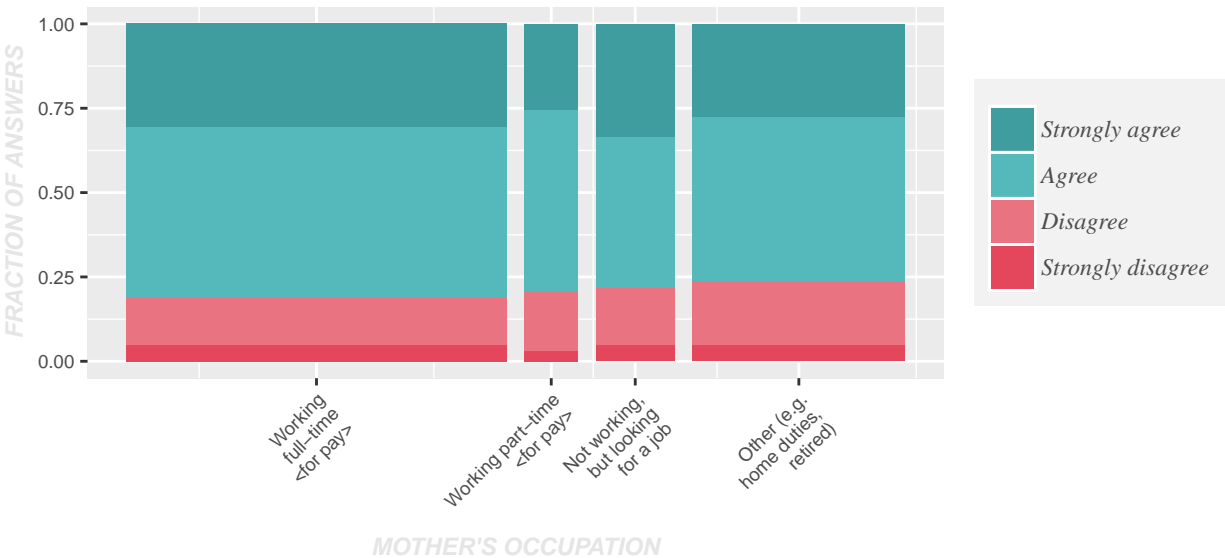
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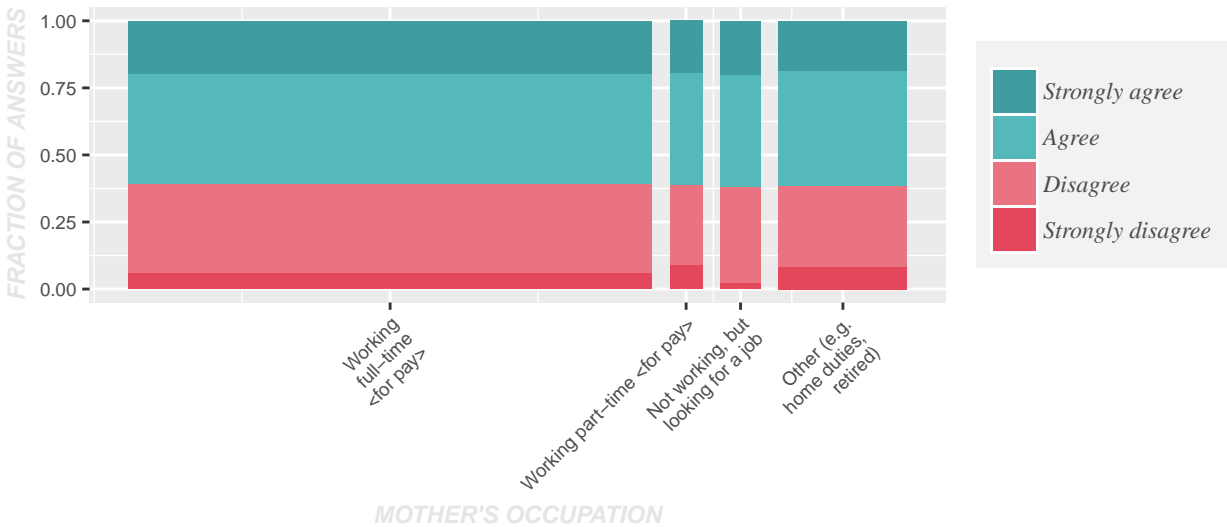
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Russian Federation

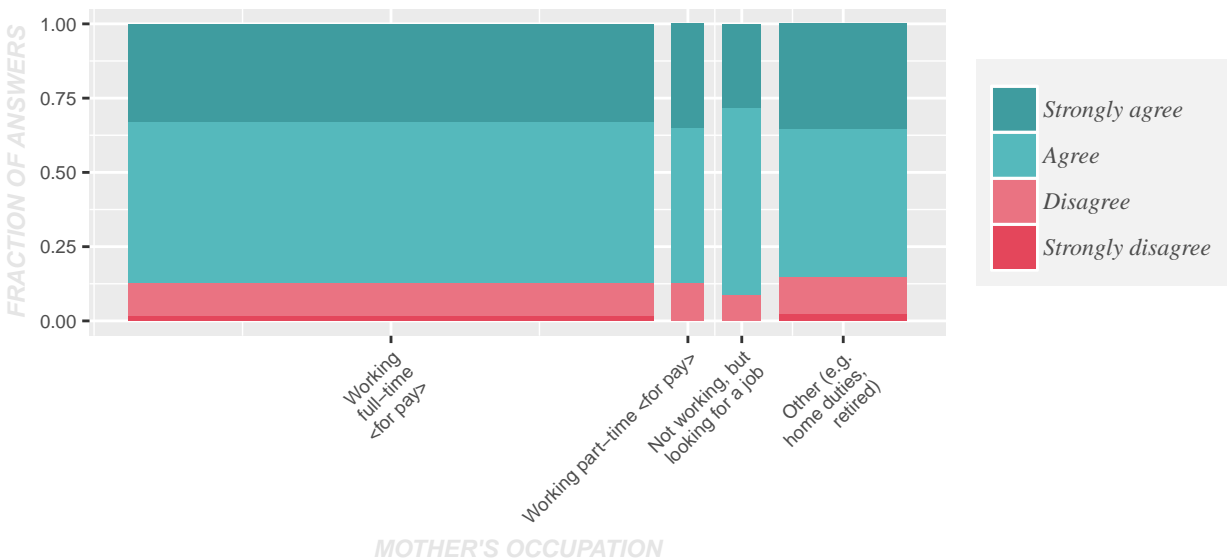
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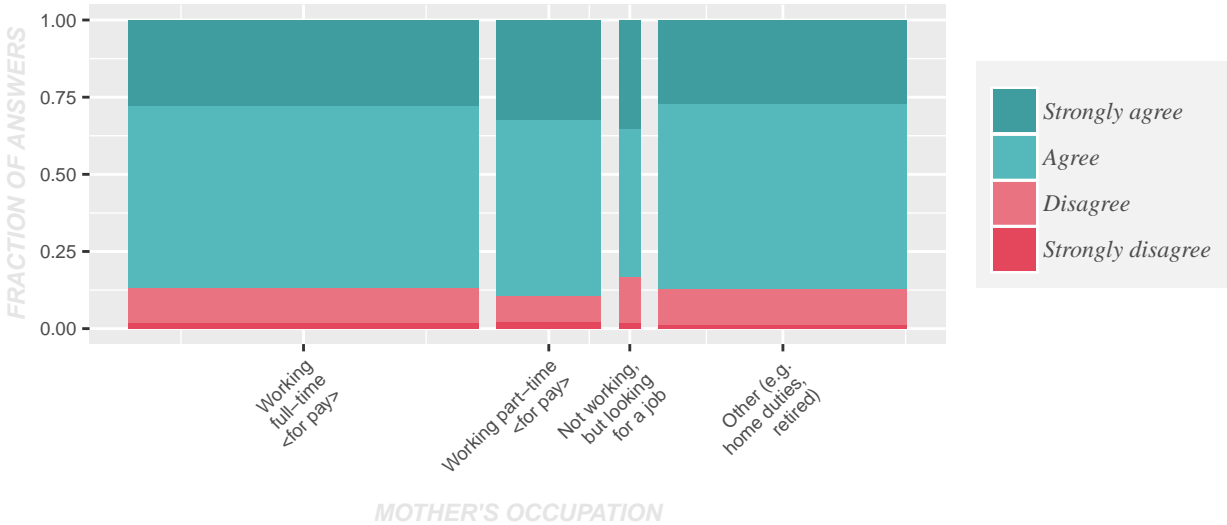
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Singapore

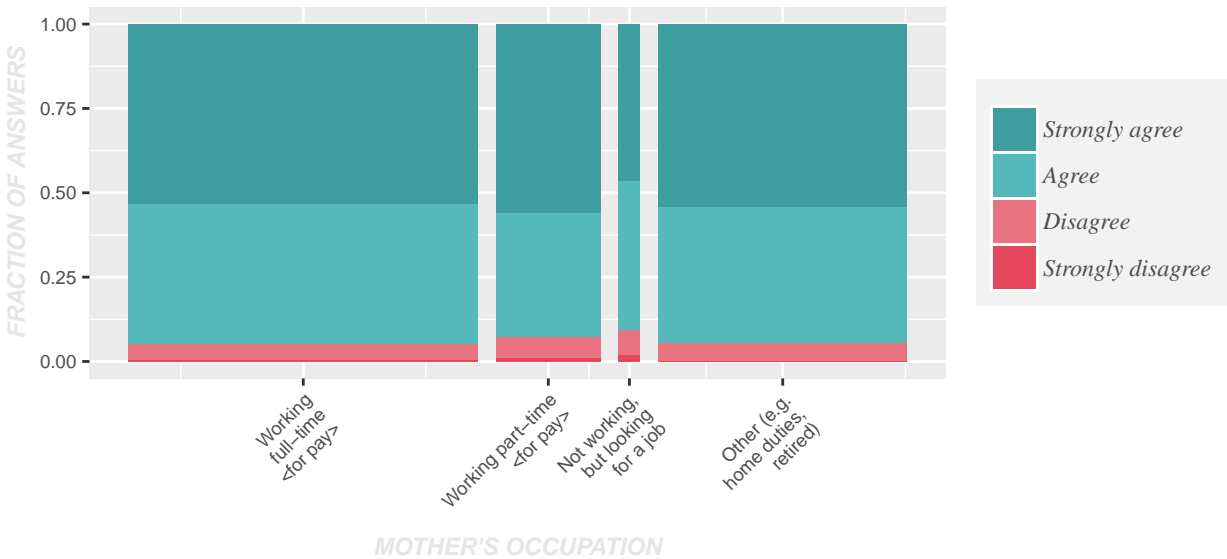
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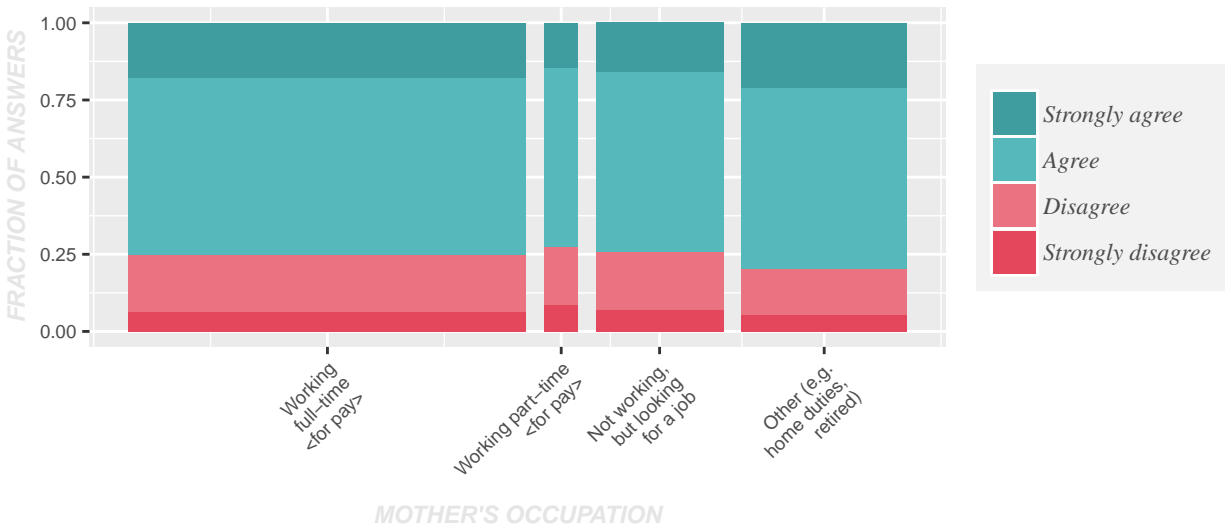




Serbia

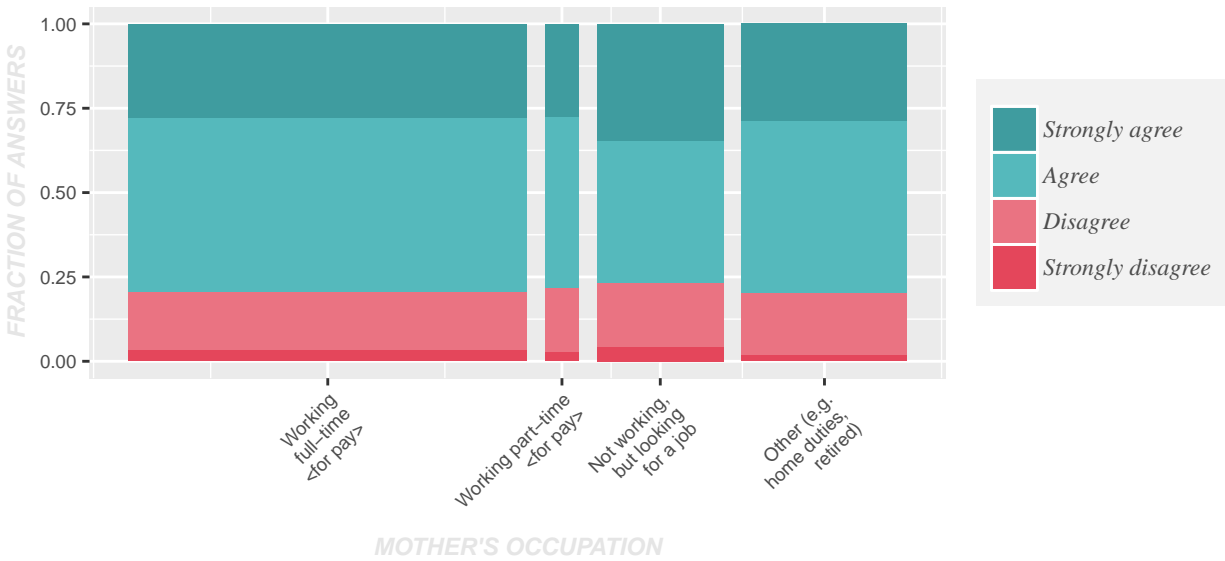
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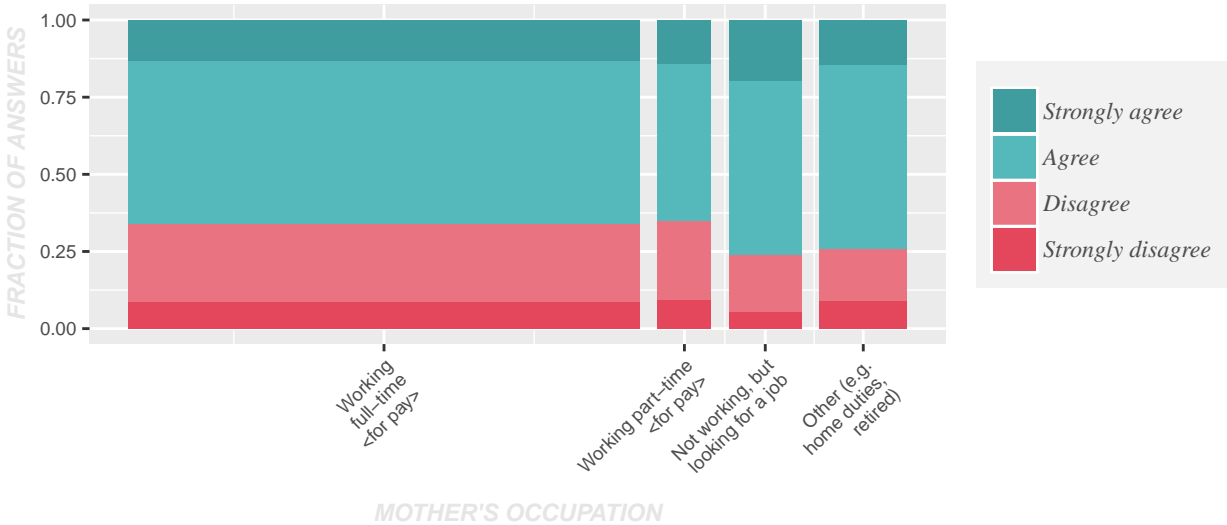
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Slovak Republic

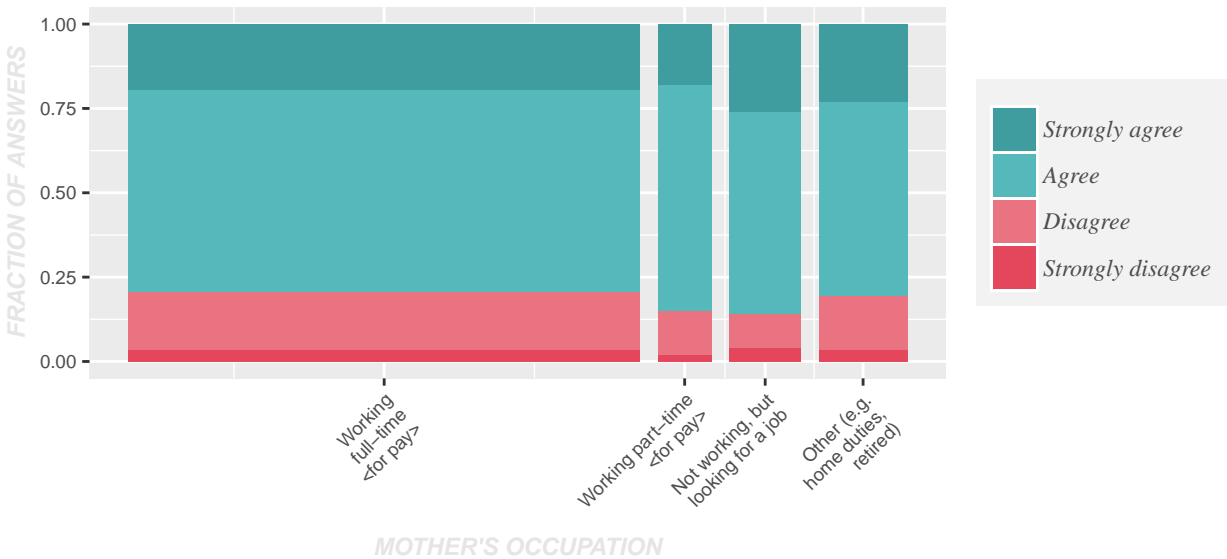
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MATH CONFIDENCE

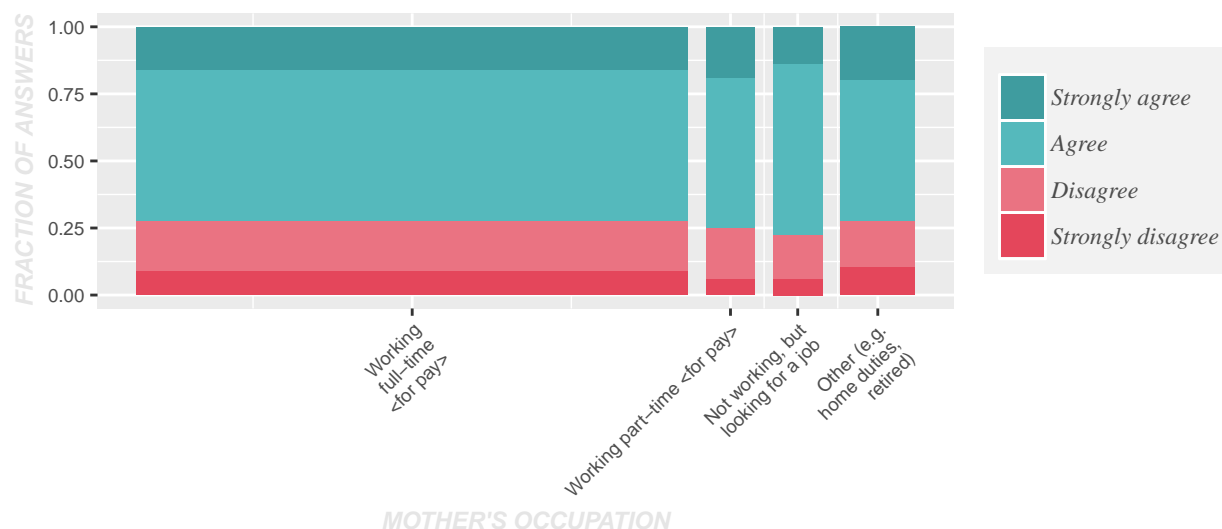
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## Slovenia

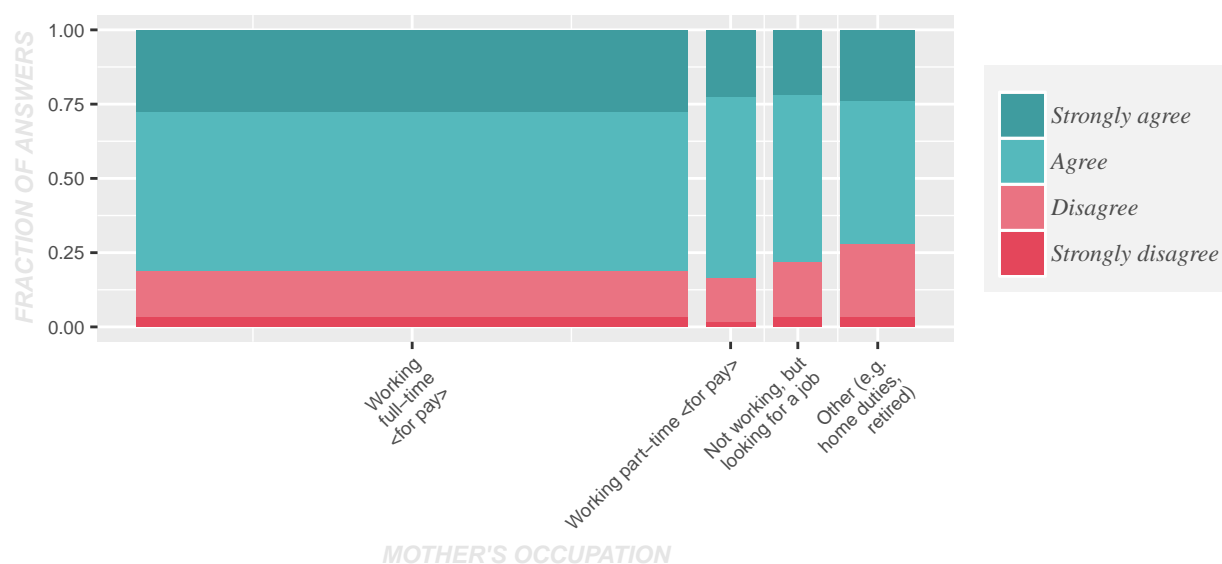
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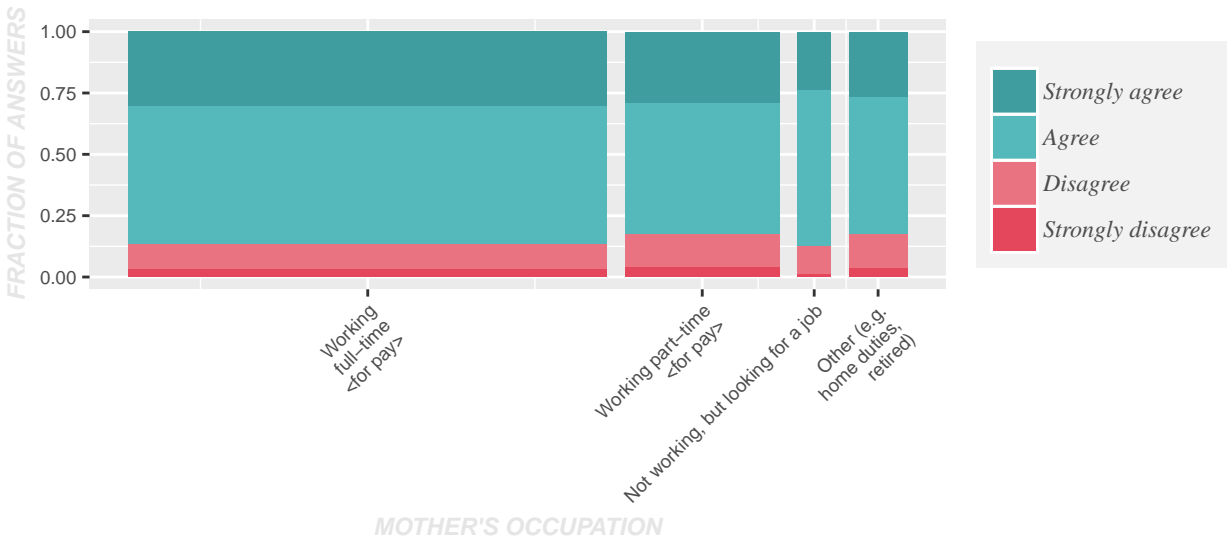
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Sweden

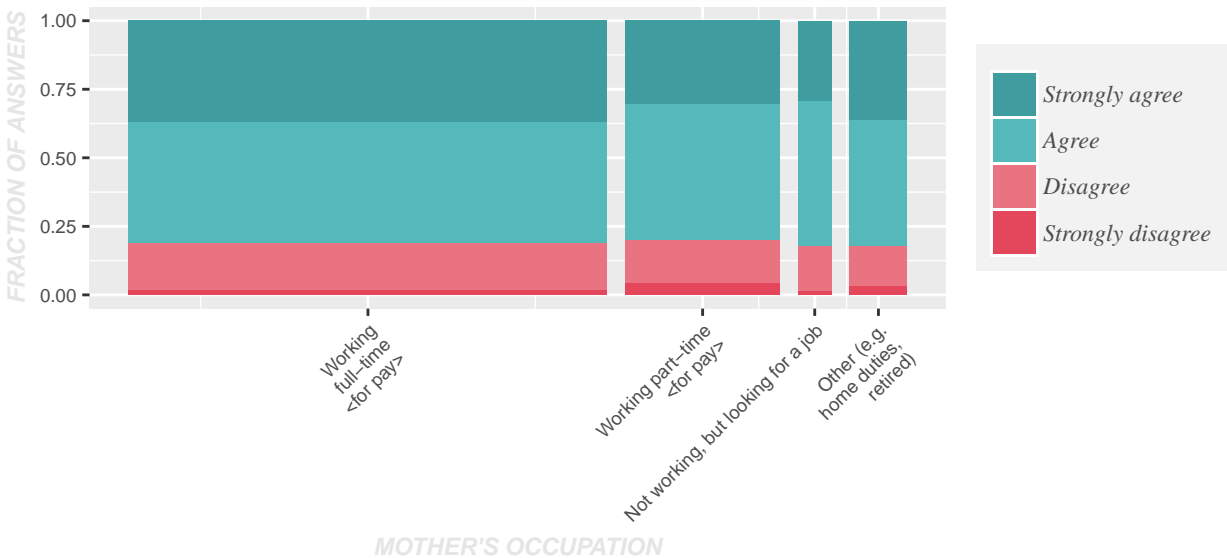
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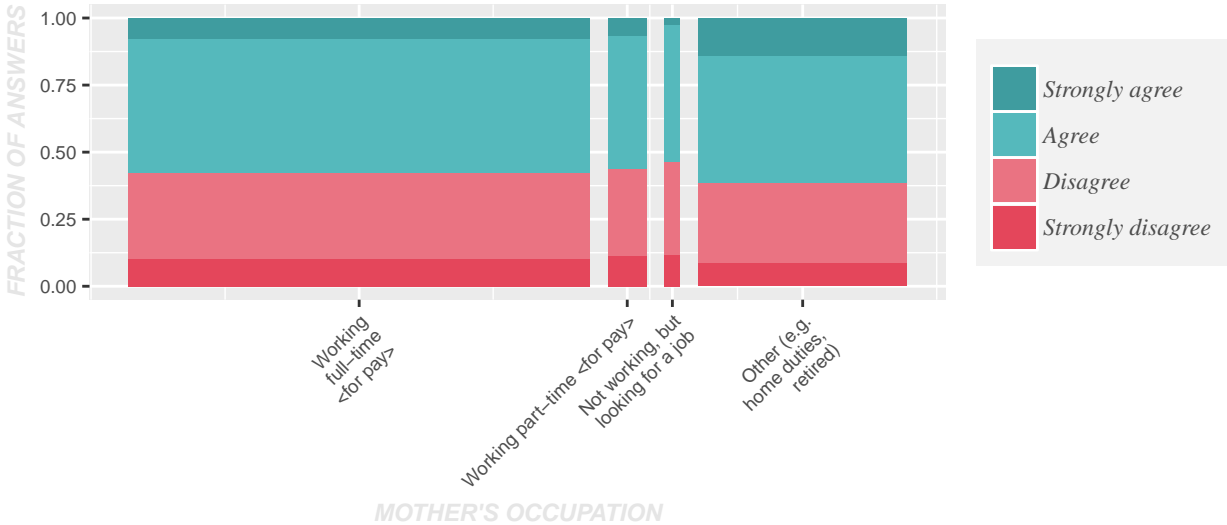
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Chinese Taipei

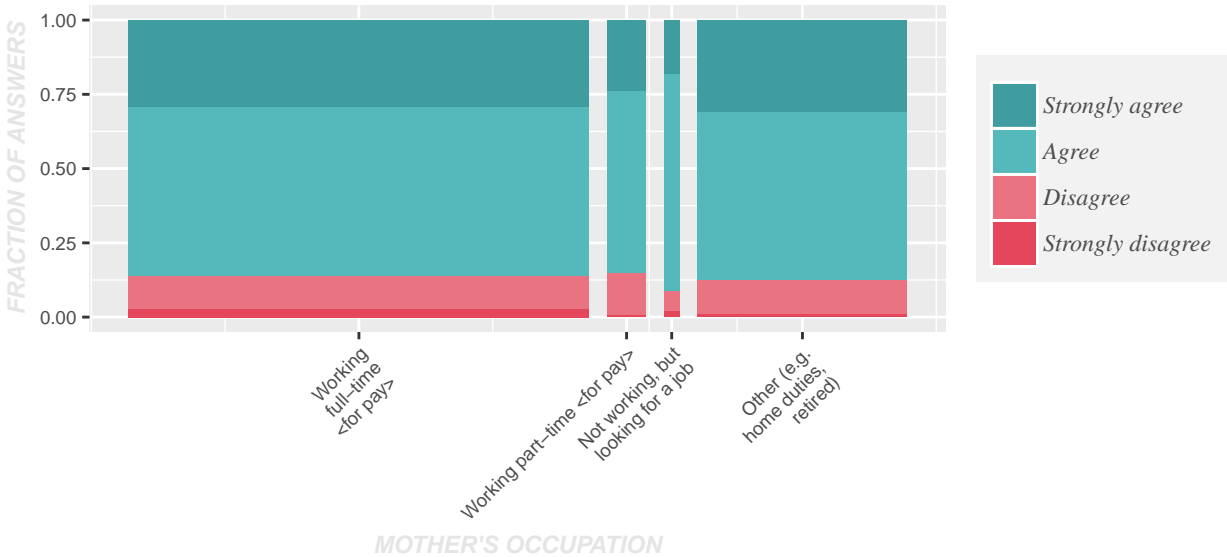
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MATH CONFIDENCE

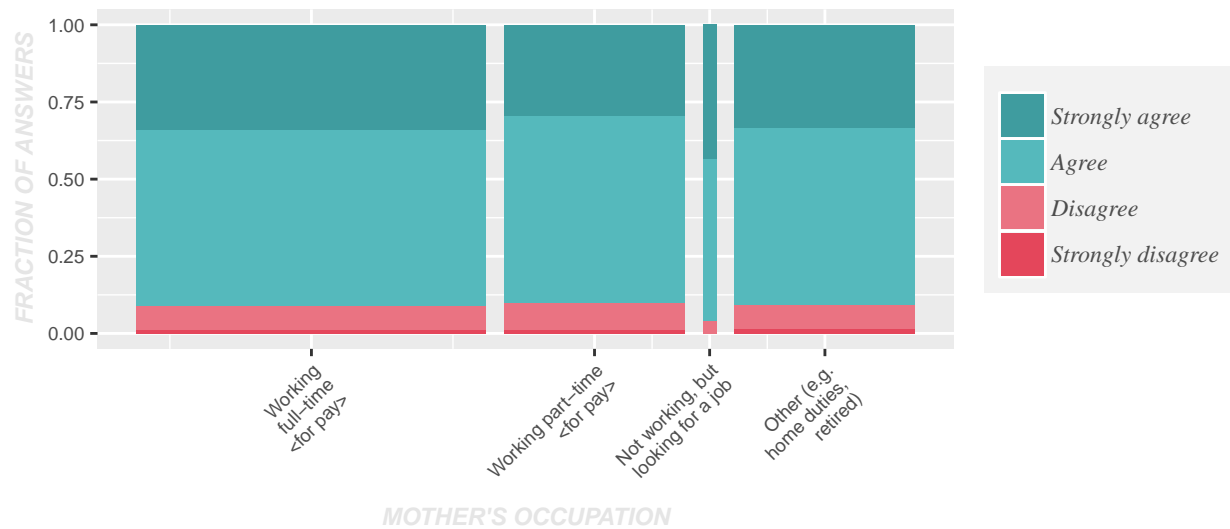
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## Thailand

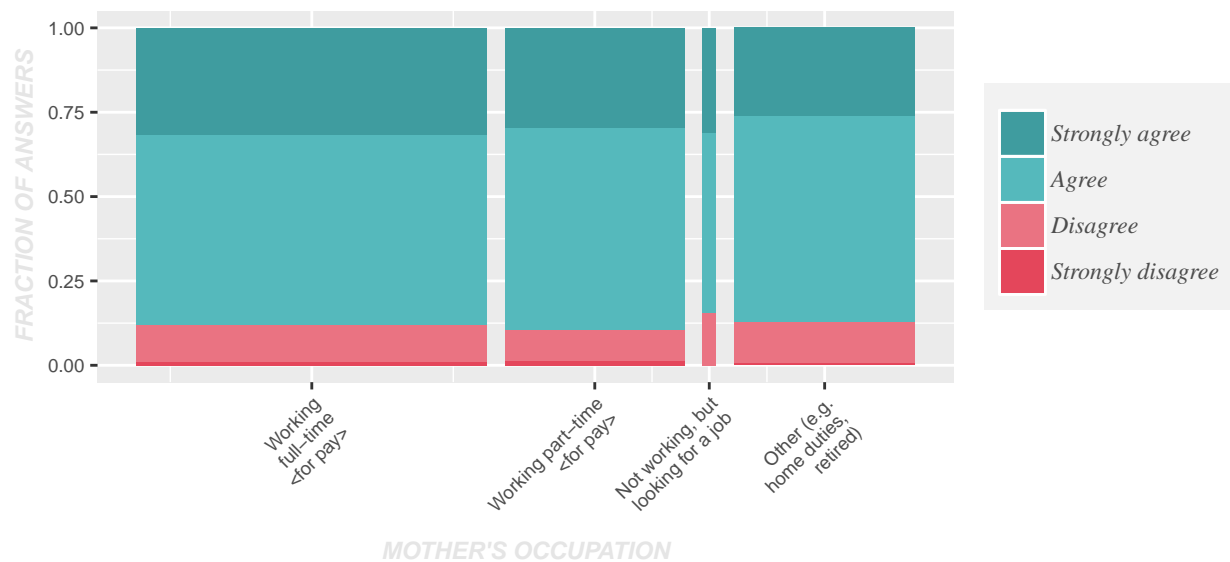
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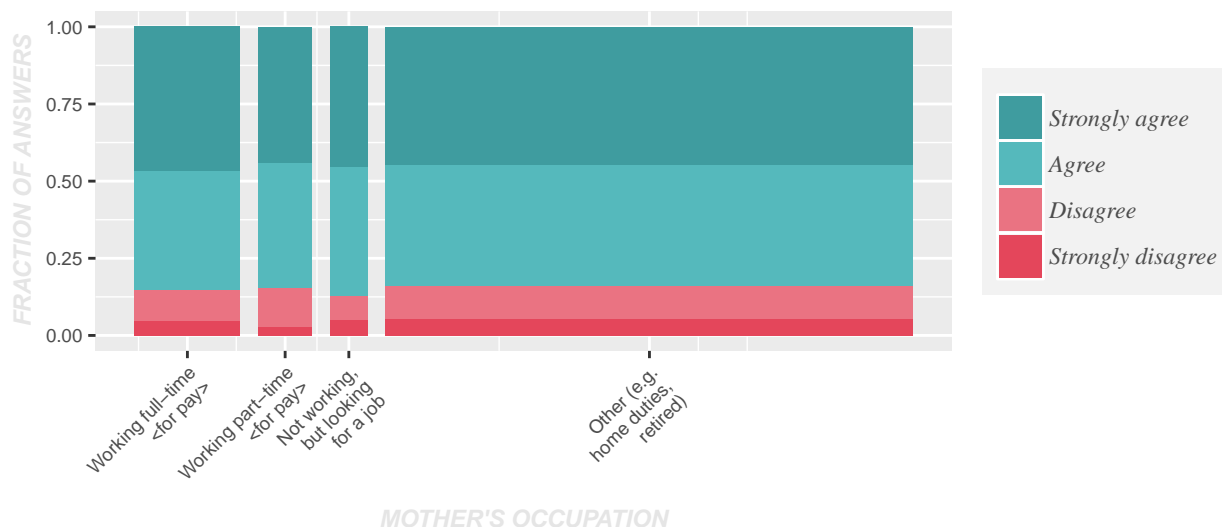
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## Tunisia

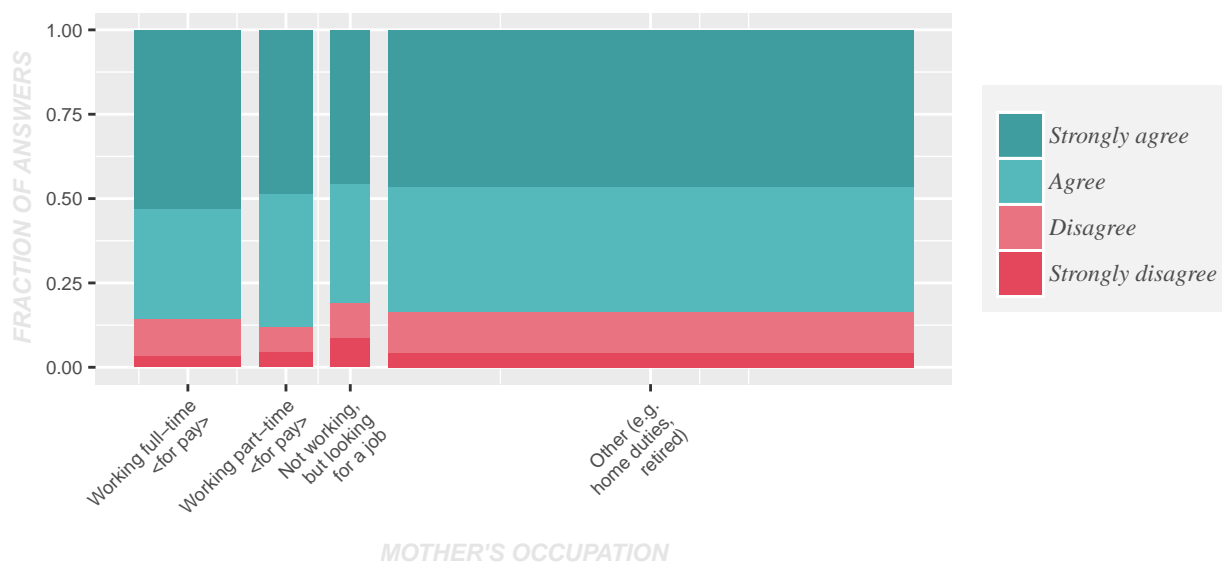
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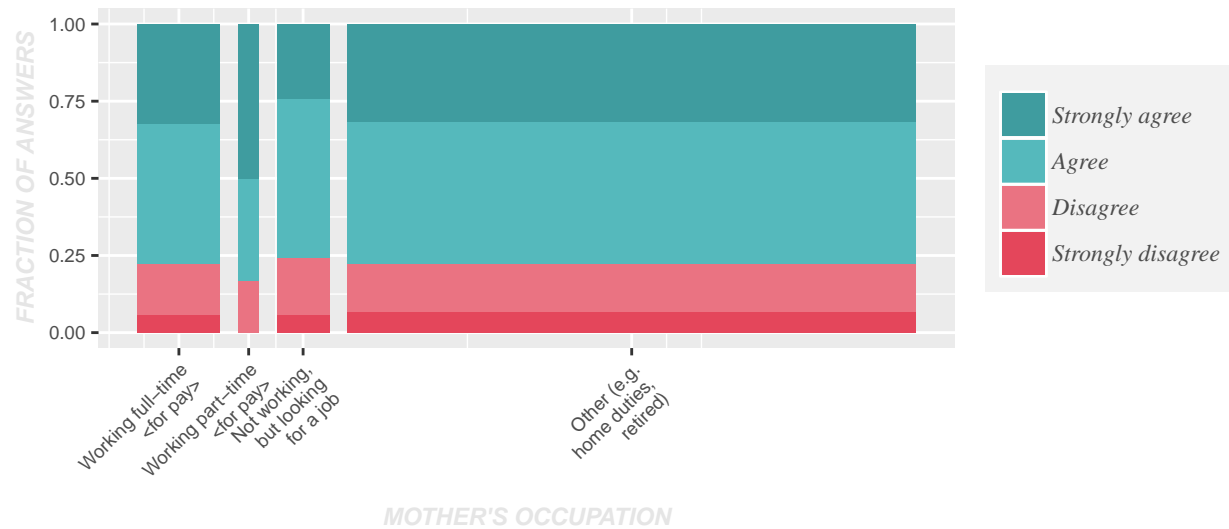
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## Turkey

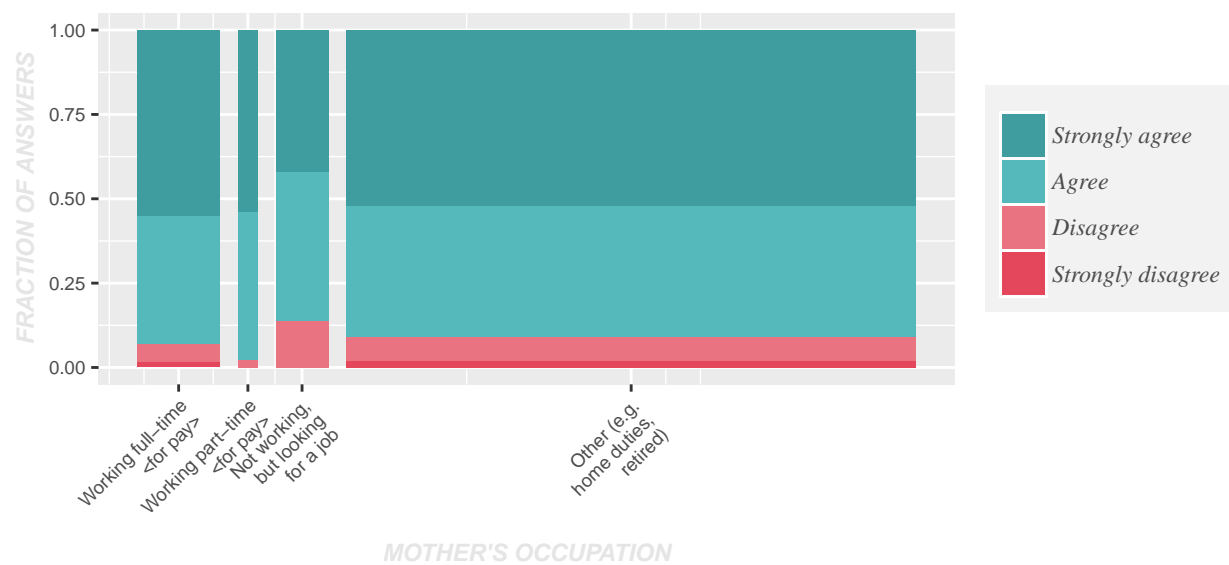
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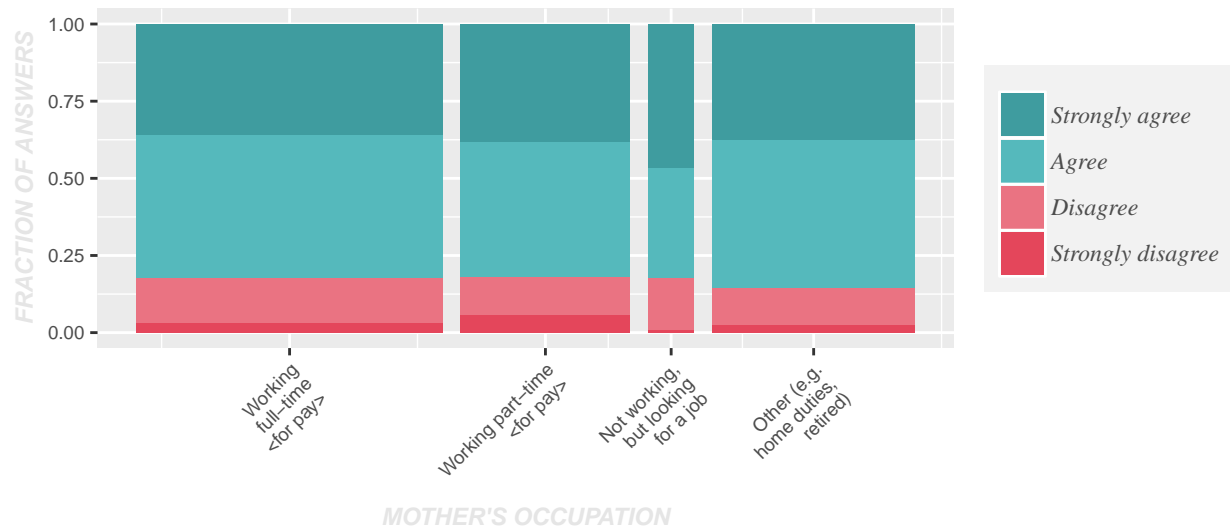




## Uruguay

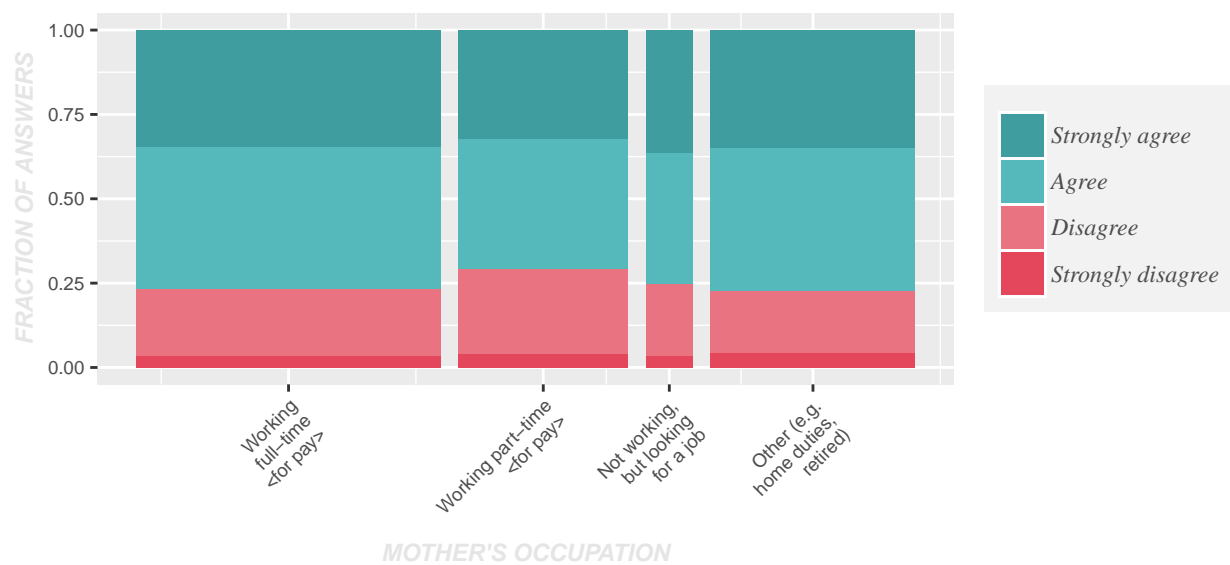
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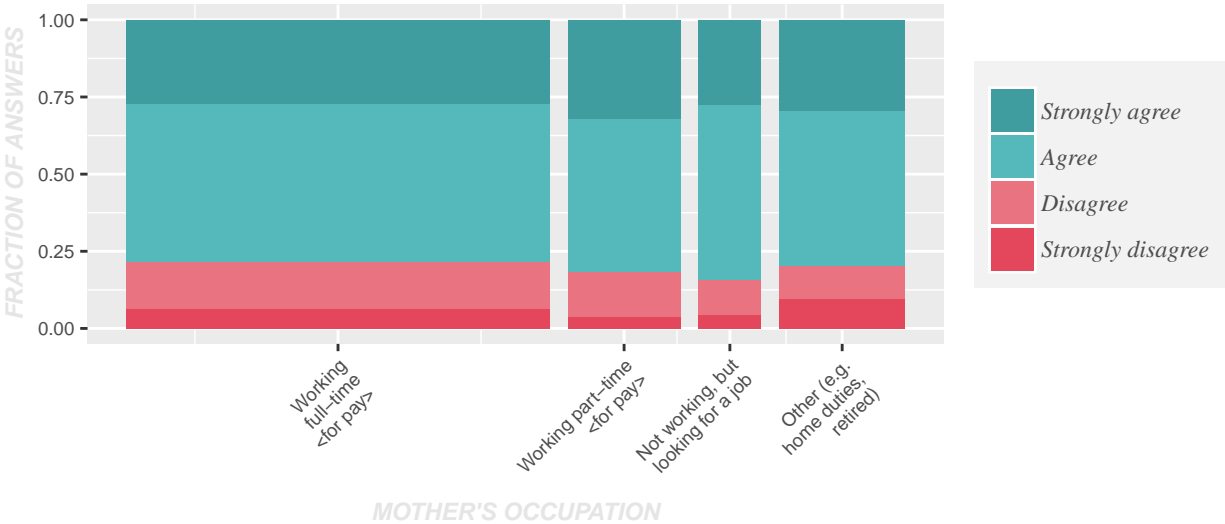
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United States of America

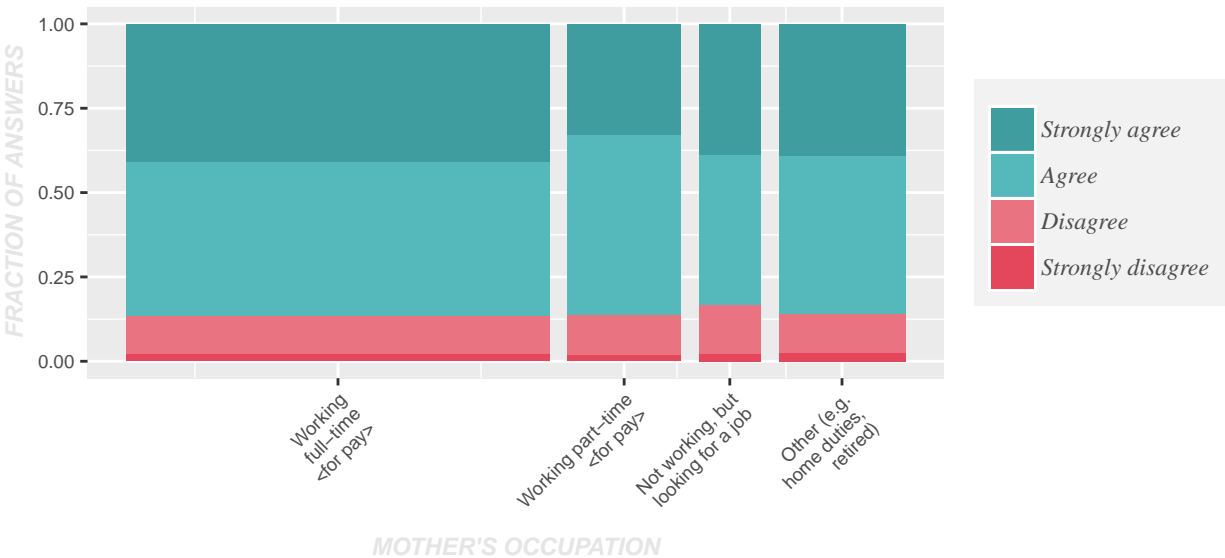
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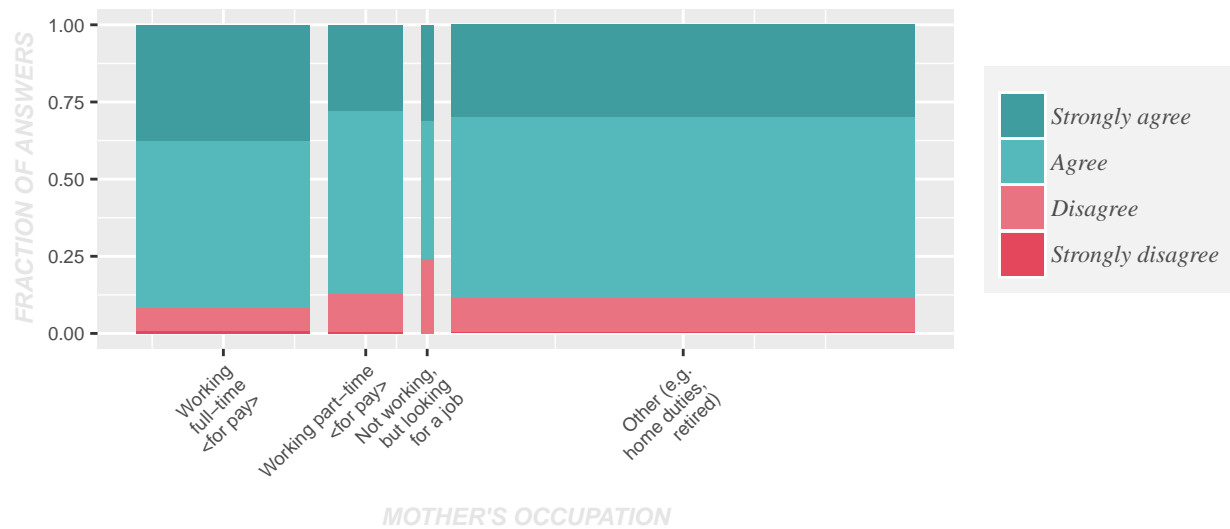
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## Vietnam

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