

UNIVERSITY OF MANNHEIM

MASTER'S THESIS

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**The Impact of Transitory Income  
Shocks on Labor Supply Decisions:  
A Machine Learning Approach**

**Supplementary Appendix**

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*A thesis submitted in fulfillment of the requirements  
for the degree of Master of Science*

*at the*

Chair of Quantitative Macroeconomics  
Department of Economics

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# Supplementary Appendix

In this supplementary appendix, I provide more graphical illustrations of my estimations. Since in the appendix of the main thesis file I only show median absolute responses as partial dependence plots, I supplement these plots with median percentage and median marginal responses.

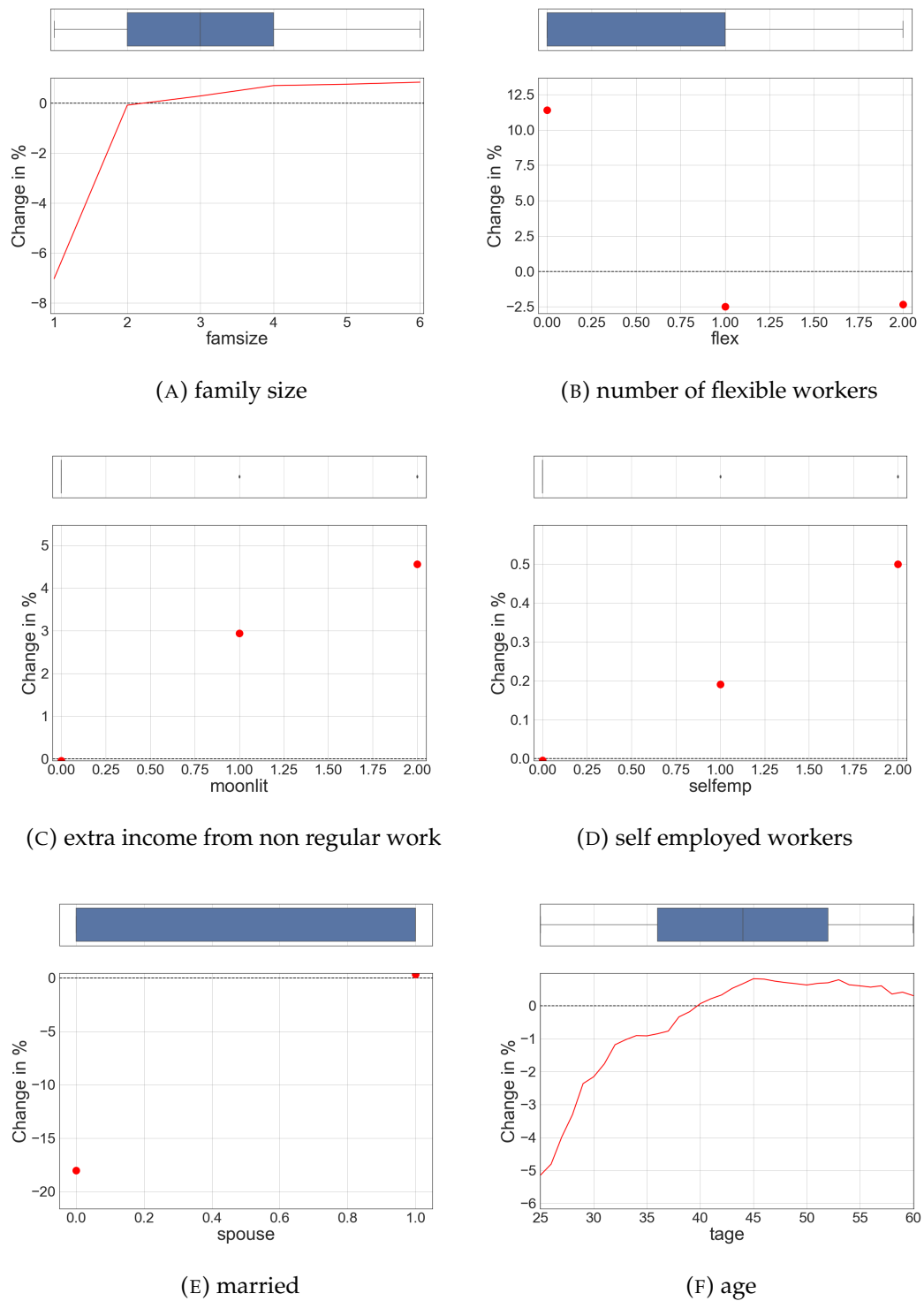


FIGURE 1: Median Percentage Responses for All Observation Months

Note: The shown boxplots refer to all observation months.

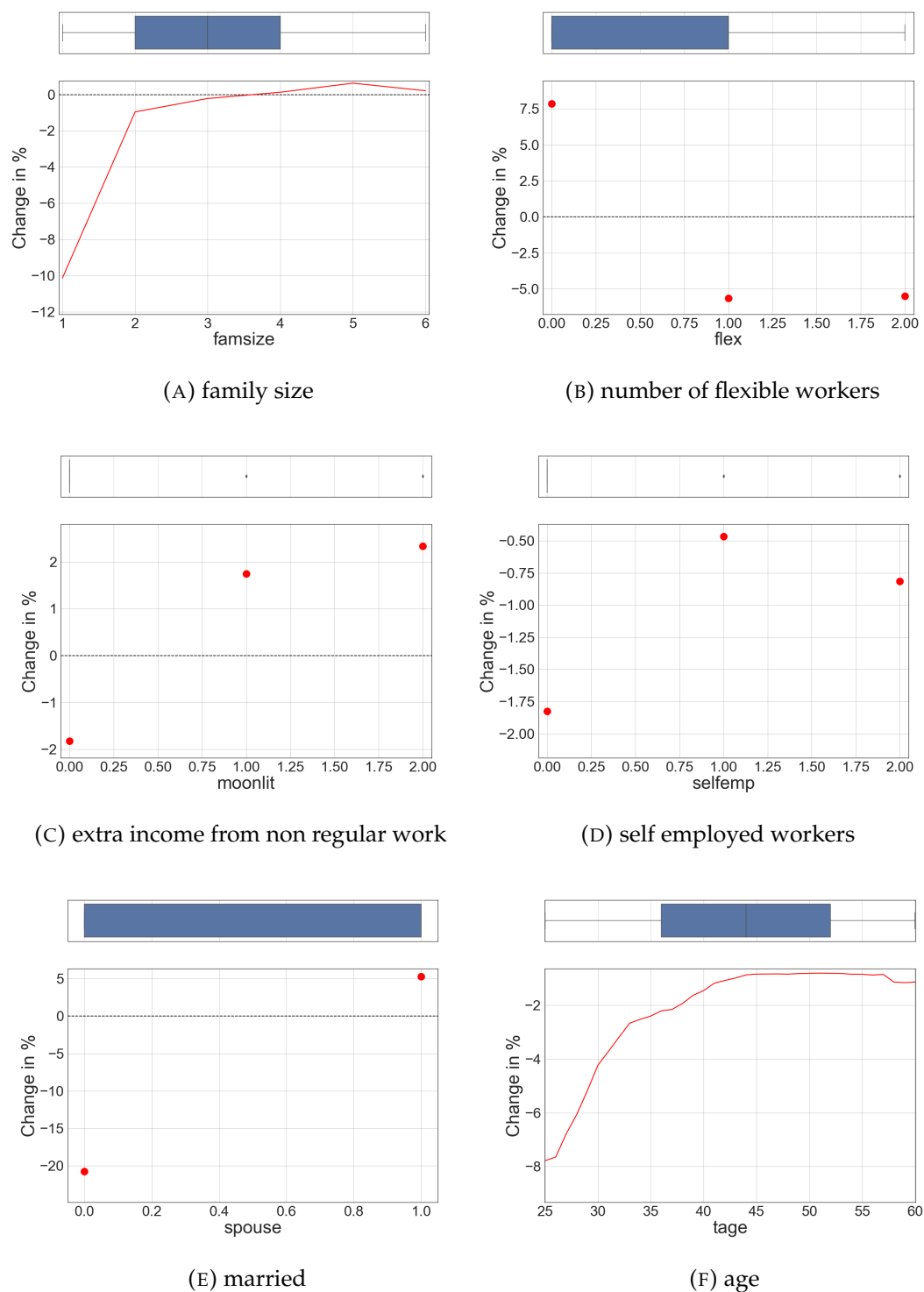


FIGURE 2: Median Percentage Responses for Rebate Months

Note: The shown boxplots refer to the first and second month after rebate payments.

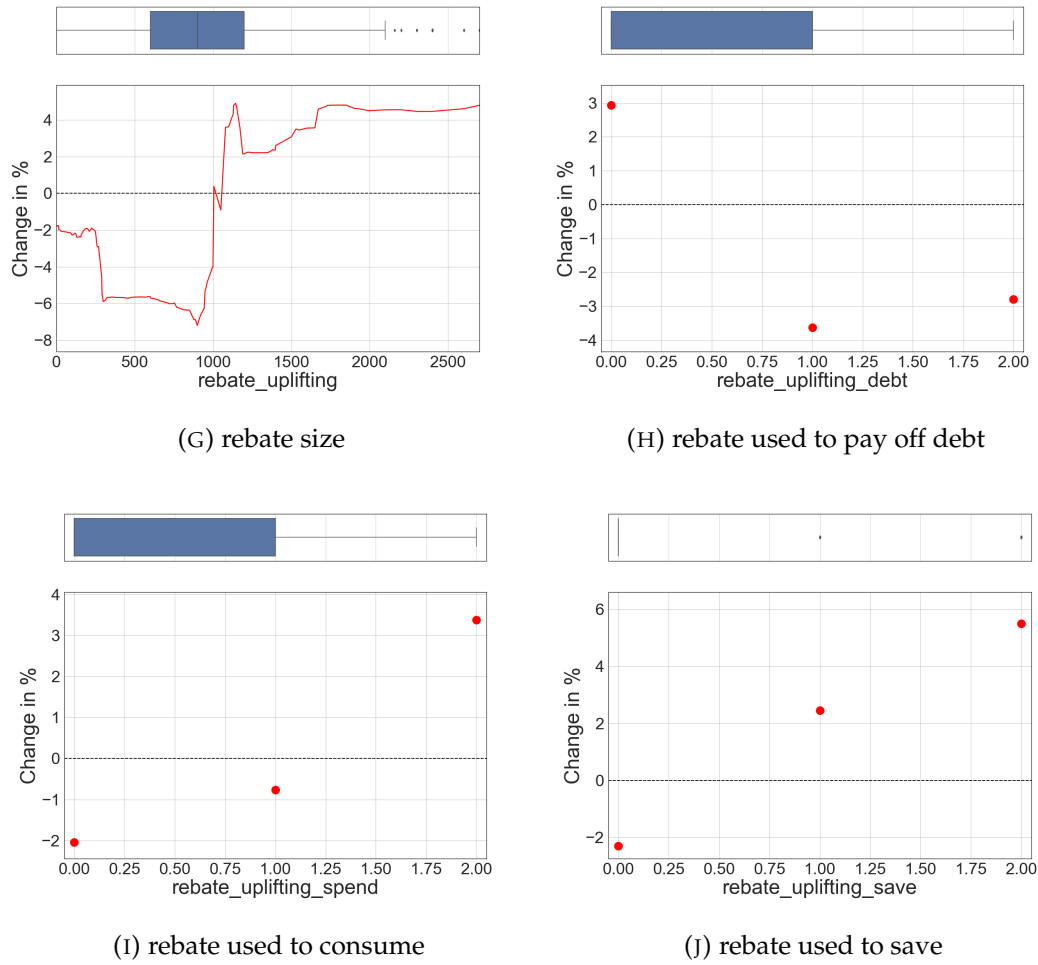


FIGURE 2: Median Percentage Responses for Rebate Months (cont.)

Note: For rebate months, I include partial dependence plots for features describing rebate characteristics, such as the rebate size and the reported use of the rebate payment. The shown boxplots refer to the first and second month after rebate payments.

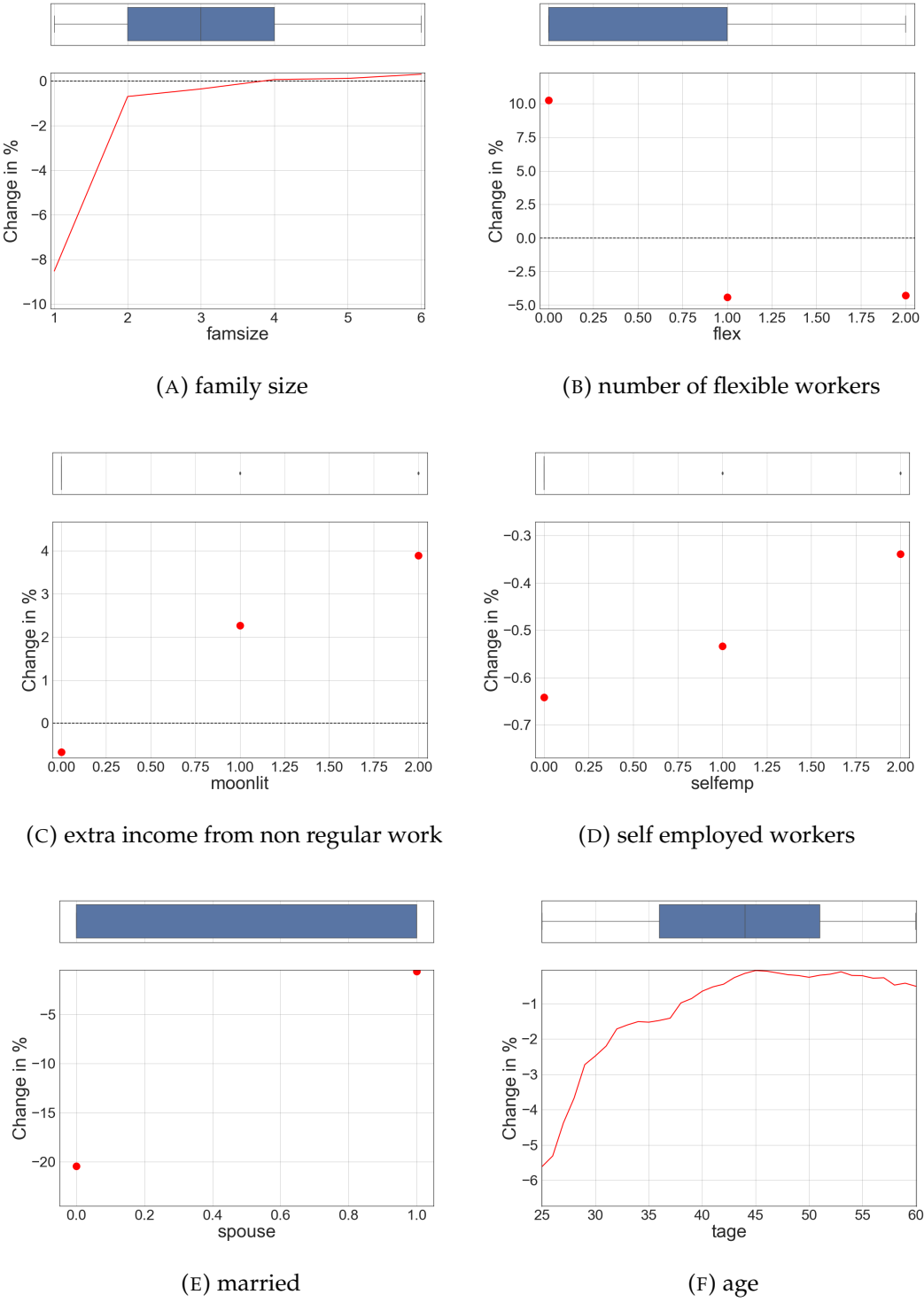


FIGURE 3: Median Percentage Responses for the First and Second Month after Rebate Payments

Note: The shown boxplots refer to the first and second month after rebate payments.

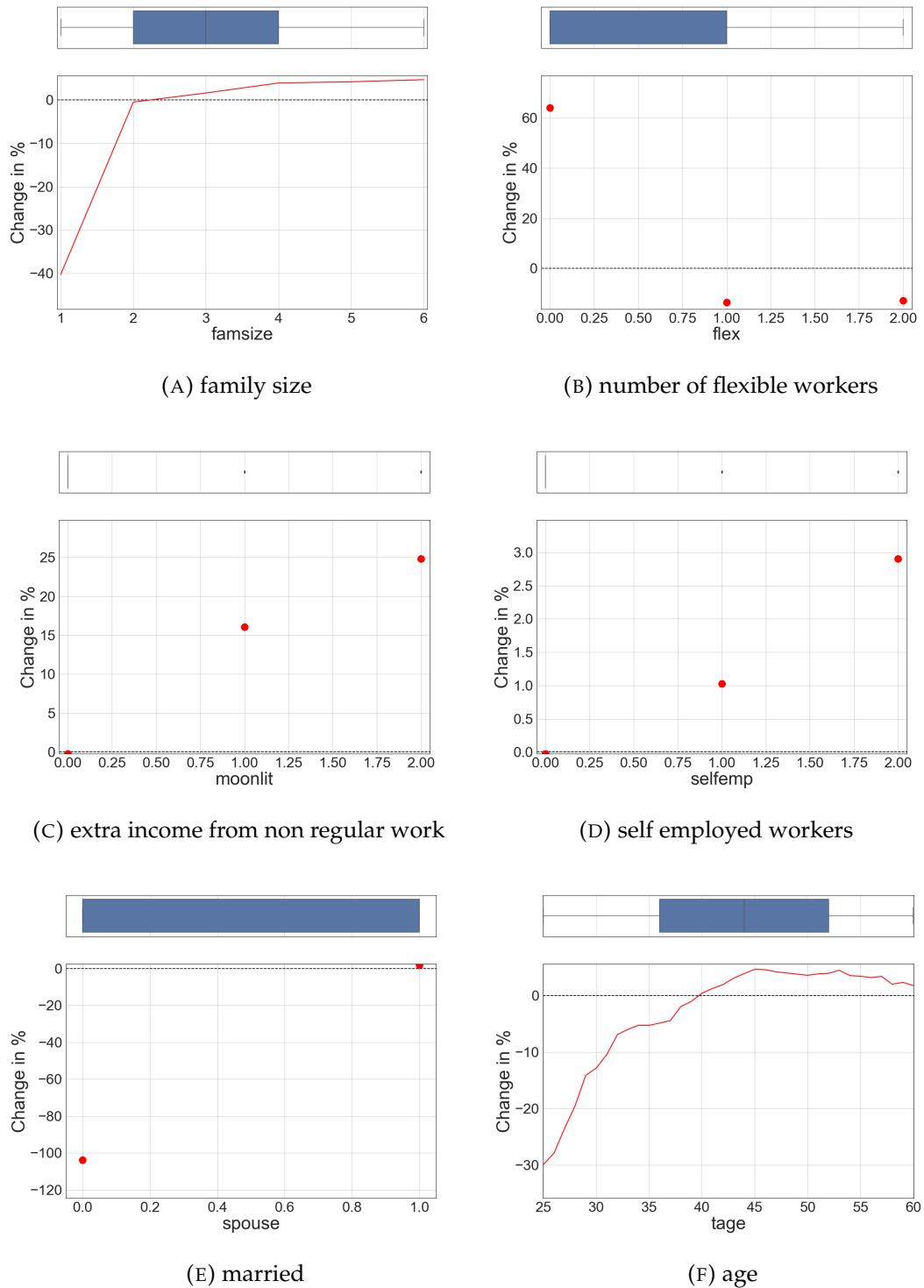
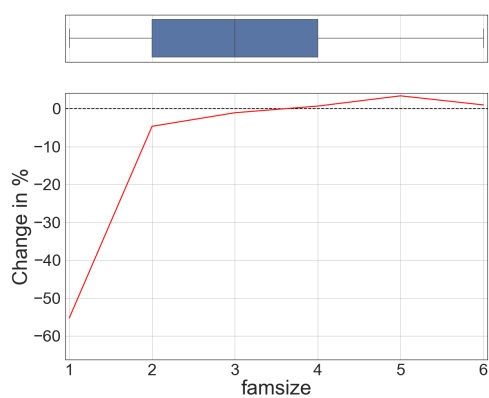
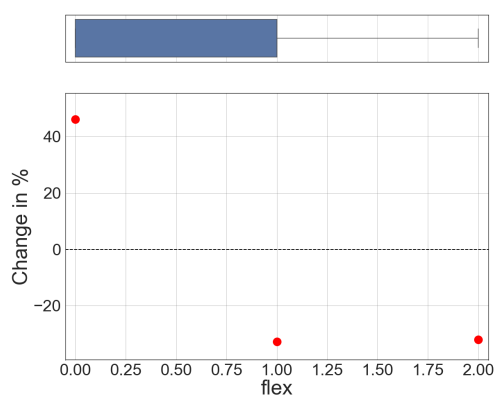


FIGURE 4: Median Marginal Responses for All Observation Months

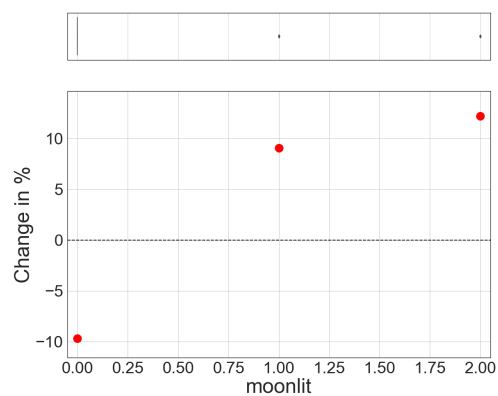
Note: The shown boxplots refer to all observation months.



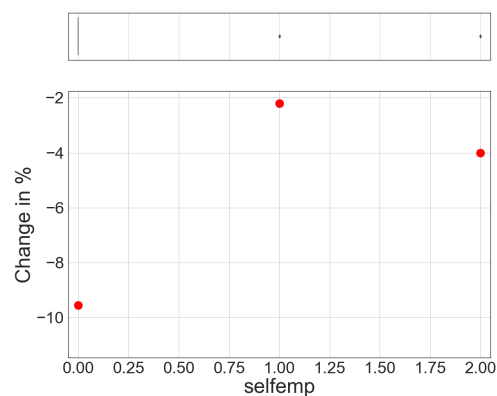
(A) family size



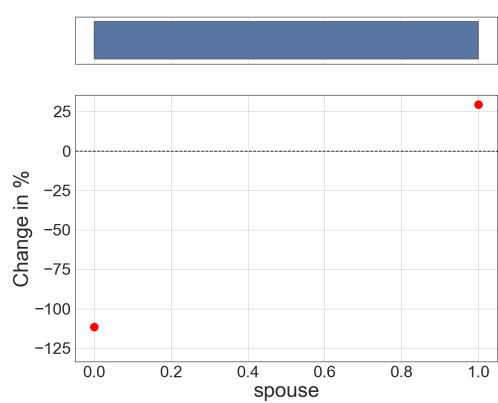
(B) number of flexible workers



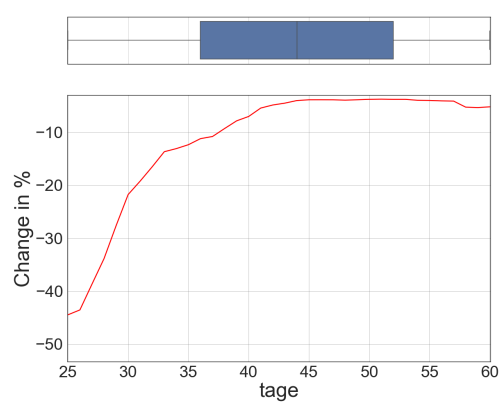
(C) extra income from non regular work



(D) self employed workers



(E) married



(F) age

FIGURE 5: Median Marginal Responses for Rebate Months



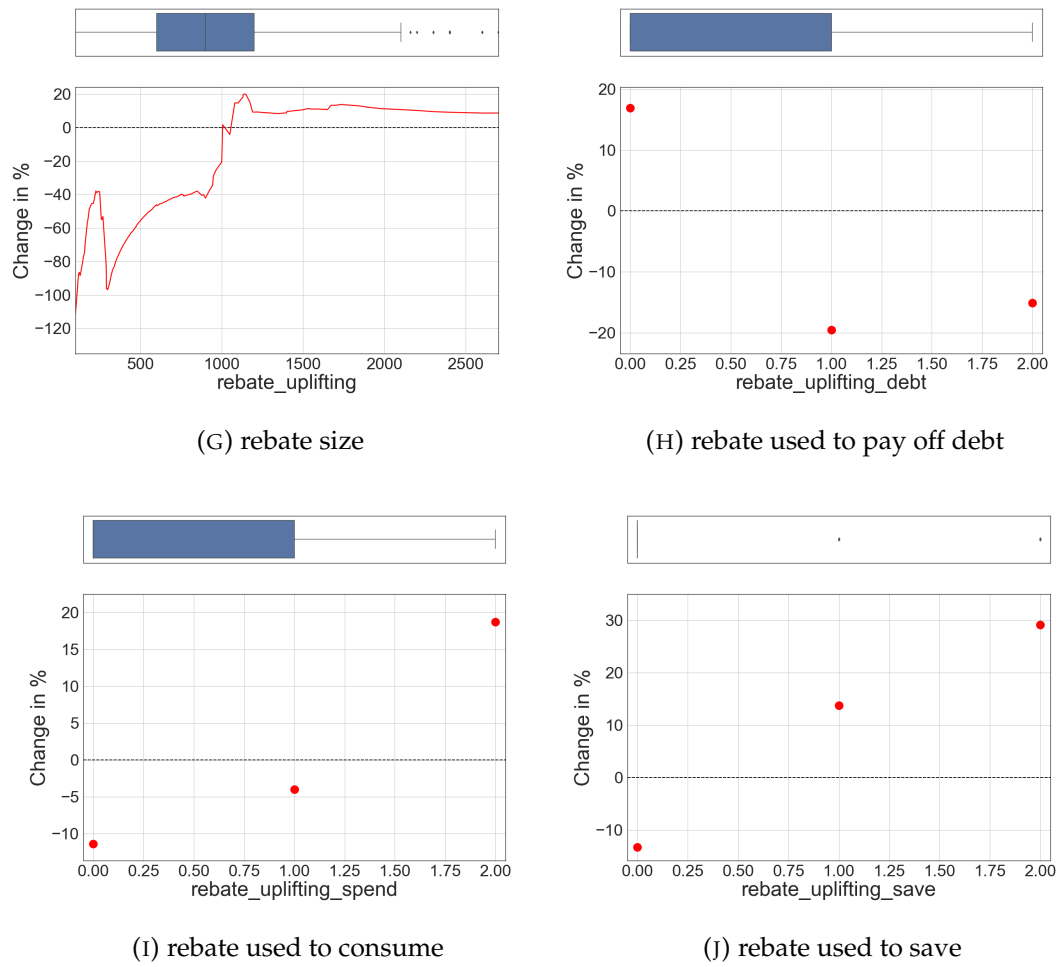


FIGURE 5: Median Marginal Responses for Rebate Months (cont.)

Note: For rebate months, I include partial dependence plots for features describing rebate characteristics, such as the rebate size and the reported use of the rebate payment. The shown boxplots refer to the first and second month after rebate payments.

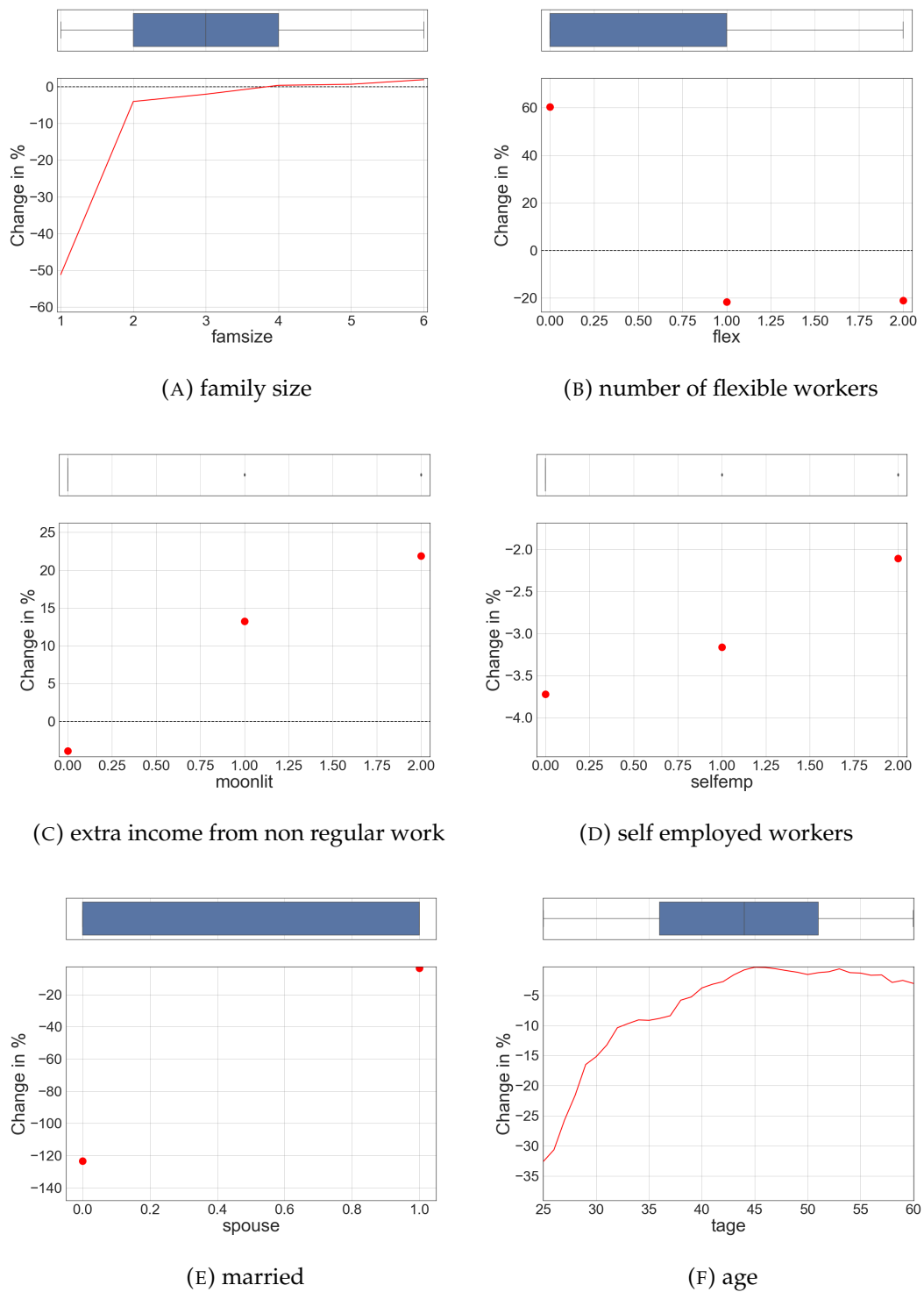


FIGURE 6: Median Marginal Responses for the First and Second Month after Rebate Payments

Note: The shown boxplots refer to the first and second month after rebate payments.