Liquidity Constraint, Optimal Attention Allocation and Inflation Expectations of Households*

Hibiki Ichiue[†] Maiko Koga[‡] Tatsushi Okuda[§] Tatsuya Ozaki[¶]
Bank of Japan Bank of Japan Bank of Japan Bank of Japan

January 24, 2019 (Very Preliminary)

Abstract

We theoretically and empirically investigate formation processes of inflation expectations of households. We develop a rational inattention model of households who attempt to minimize the expected loss from insufficient bargain-hunting and inefficient inter-temporal consumption allocation. The households allocate their attention to information about two variable: the lowest price in the current period and the aggregate inflation rate which a central bank aims to achieve in the long-run. The key prediction of the model is that inflation expectations of households with tigher liquidity constraint exhibit higher correlation with their own experienced inflation (i.e. inflation perceptions). Such households are also less attentive to information about the inflation rate targeted by the central bank. We then empirically validate our model by testing these predictions with a micro-dataset on Japanese households. We finally draw a critical policy implication from the valid model that alleviation of the liquidity constraint by monetary easing affects households' optimal attention allocations and finally promotes effective central bank communication on its targeted inflation.

JEL Classification: E50, E21, E61

Keywords: Rational inattention, inflation expectations, anchoring, liquidity constraint,

Eular equation.

^{*}The authors thank Kosuke Aoki, Ryo Jinnai, Toshitaka Sekine, Naohisa Hirakata, Tomohiro Sugo, Yosuke Uno, and staffs at the Bank of Japan for their invaluable comments. Any remaining errors are the sole responsibility of the authors. The views expressed in this paper are those of the authors and do not necessarily reflect the official views of the Bank of Japan.

[†]The head of Economic Research Division, Research and Statistics Department, Bank of Japan: hibiki.ichiue@boj.or.jp

[‡]Senior Economist, Research and Statistics Department, Bank of Japan: maiko.koga@boj.or.jp

[§]Economist, Research and Statistics Department, Bank of Japan: tatsushi.okuda@boj.or.jp

Economist, Research and Statistics Department, Bank of Japan: tatsuya.ozaki@boj.or.jp