

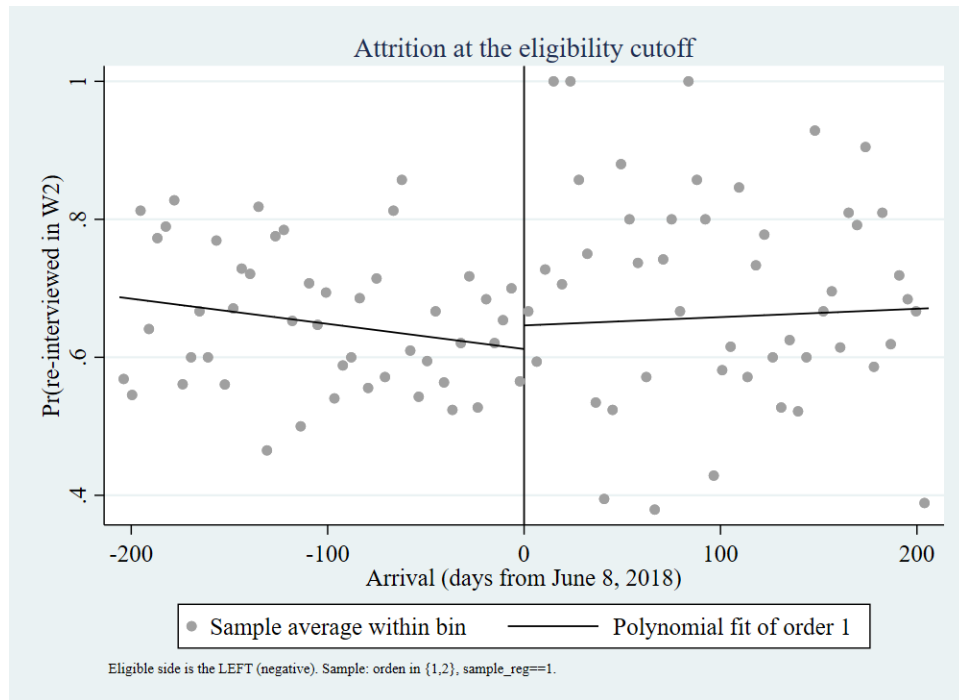
## Section 8: Attrition (Part 2)

### 4. Attrition at the eligibility cutoff

If *is\_panel* jumps at  $c=0$ , *W2* is selected on treatment status at the cutoff and the *W2* RD is biased. We test this with *rdrobust*.

| Test       | Coef   | SE    | p (robust) | BW    | N (eff.) |
|------------|--------|-------|------------|-------|----------|
| Sharp ITT  | -0.051 | 0.060 | 0.399      | 94.7  | 1320     |
| Fuzzy LATE | -0.104 | 0.124 | 0.401      | 103.5 | 1463     |

**Sharp ITT verdict: PASS (no significant jump in tracking)**



### 5. Selection on observables (W2 mean - W1 mean, standardized)

Predetermined characteristics should be similar in *W1* and *W2* if attrition is random. Big standardized differences indicate selective attrition.

| Variable      | W1 mean | W2 mean | Std diff |
|---------------|---------|---------|----------|
| hhven_spouse  | 0.548   | 0.562   | 0.027    |
| hhven_other   | 0.103   | 0.102   | -0.002   |
| jobopp        | 0.338   | 0.351   | 0.027    |
| labven        | 0.976   | 0.979   | 0.022    |
| typeworkkven1 | 0.596   | 0.586   | -0.022   |
| typeworkkven2 | 0.152   | 0.159   | 0.020    |
| typeworkkven3 | 0.175   | 0.184   | 0.024    |
| written_cont  | 0.461   | 0.458   | -0.006   |
| average       | 0.921   | 0.959   | 0.010    |
| yrseduc       | 13.209  | 13.308  | 0.034    |
| healthmig     | 0.103   | 0.099   | -0.012   |
| frdfam        | 0.728   | 0.736   | 0.018    |

|             |        |        |        |
|-------------|--------|--------|--------|
| smartven    | 0.572  | 0.579  | 0.014  |
| owner       | 0.865  | 0.865  | 0.002  |
| electven    | 0.994  | 0.994  | 0.004  |
| waterven    | 0.866  | 0.859  | -0.020 |
| sewageven   | 0.935  | 0.937  | 0.006  |
| female      | 0.557  | 0.562  | 0.011  |
| age_panel   | 31.746 | 33.123 | 0.113  |
| child_venez | 1.558  | 1.588  | 0.020  |
| time_col    | 50.877 | 51.088 | 0.016  |

## Conclusion

The 7.6 pp differential tracking rate is statistically significant in raw and controlled regressions, but at the optimal RD bandwidth the discontinuity in `is_panel` is not statistically significant under robust inference (sharp  $p > 0.30$ , fuzzy  $p > 0.15$ ). Identification is therefore plausible at the cutoff. Lee (2009) bounds in `08b_LeeBounds_W2` quantify the worst case under monotone selection: the headline W2 results (services access, food security, integration, COVID resilience, labor income) survive these worst-case bounds, while a few outcomes (bank account, discrimination, financial access) have wide bounds spanning zero.