

Statistical Test Result #188 — Analysis Report

Generated 2026-09-21 02:38:12 · 1 run(s) · CAT-G Data Analyzer

1. Imm (#188)

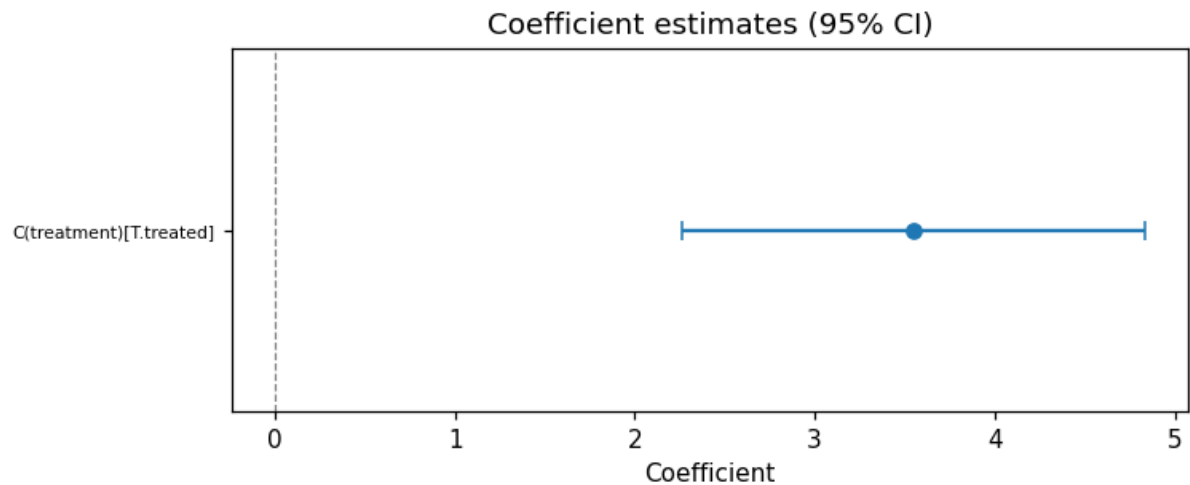
2026-09-21 02:16:46 · statistical_test · status: completed

The Imm on value completed.

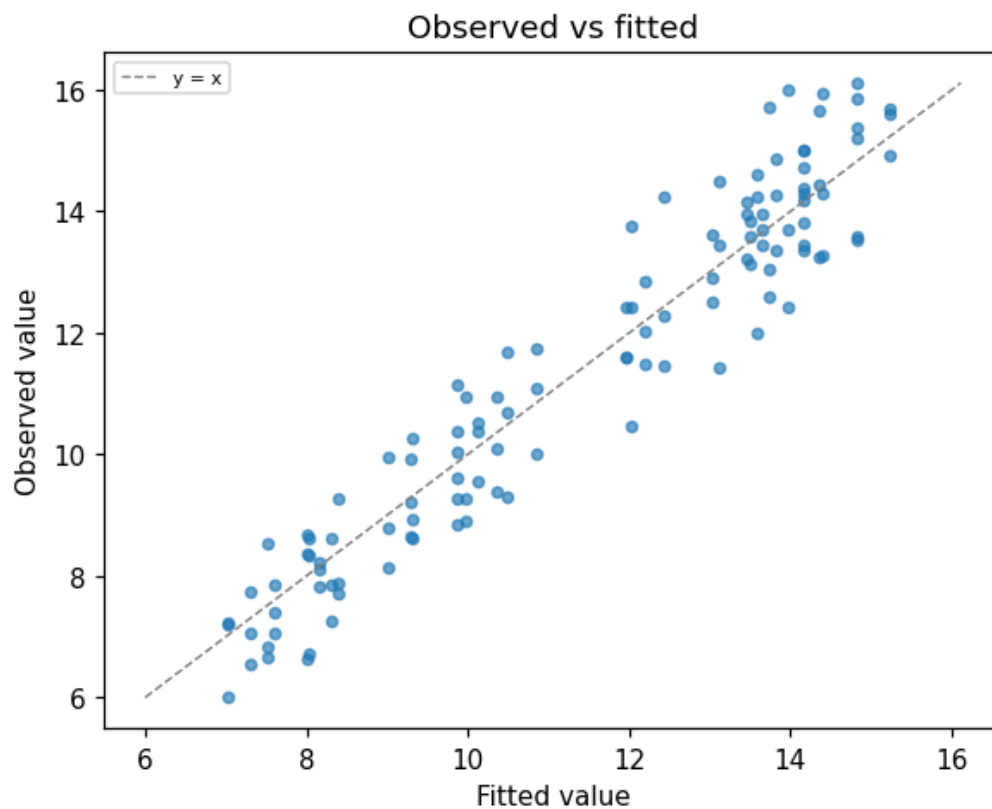
formula	value ~ C(treatment)
converged	True
n_obs	120
n_groups	40
loglikelihood	-218.983513
method	Imm
value_col	value
fixed_col	treatment
group_col	subject
significant	True

coefficients

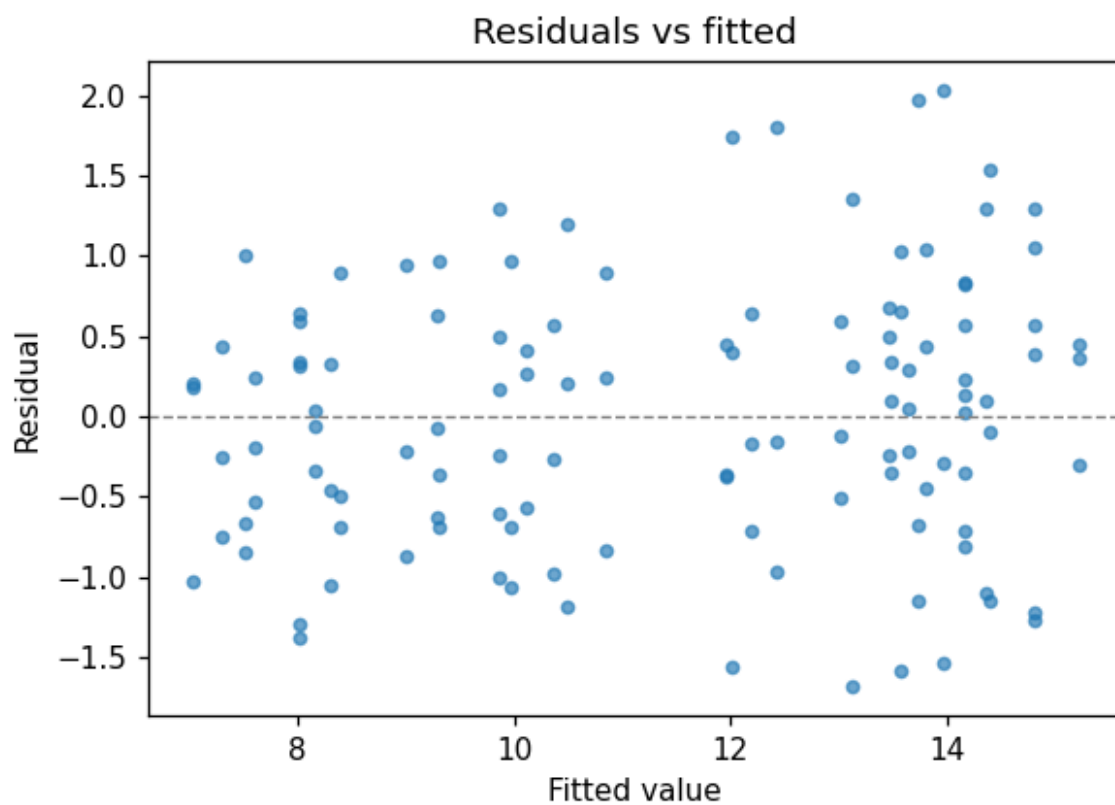
term	coef	se	z	p	ci_lower	ci_upper
Intercept	9.628778	0.463804	20.760446	0.0	8.719739	10.537817
C(treatment)[T.treated]	3.54726	0.655918	5.408085	0.0	2.261684	4.832835
Group Var	4.093659	1.233466	3.318825	0.000904	1.676109	6.511208



coef forest



fitted vs observed



residuals vs fitted

Method & Provenance

method	Linear mixed-effects model (random intercept)
engine	Python · statsmodels 0.14.6
datasets	gallery — example_imm.csv
started	2026-09-21 02:16:46.041991
permanent link	https://cat-g-omxpert.wishartlab.com/results/by-token/a59b0a0c337b4536a6b291f072aa

Parameter	Value
test_type	Imm
value_col	value
group_col	subject
fixed_col	treatment

Command history

```
# python
import statsmodels.formula.api as smf

# python
model = smf.mixedlm('value ~ fixed', data=df, groups=df['group_col'])

# python
fit = model.fit()
```