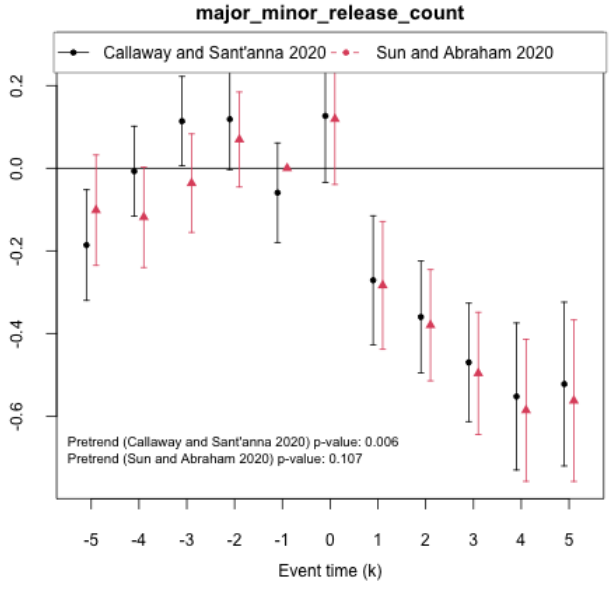
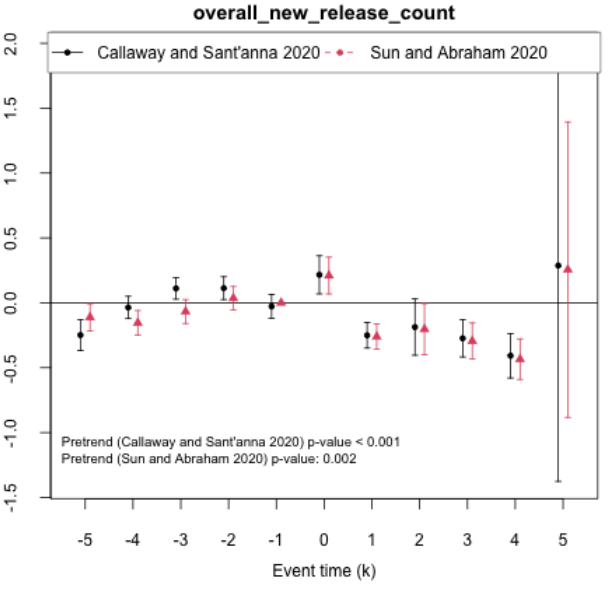
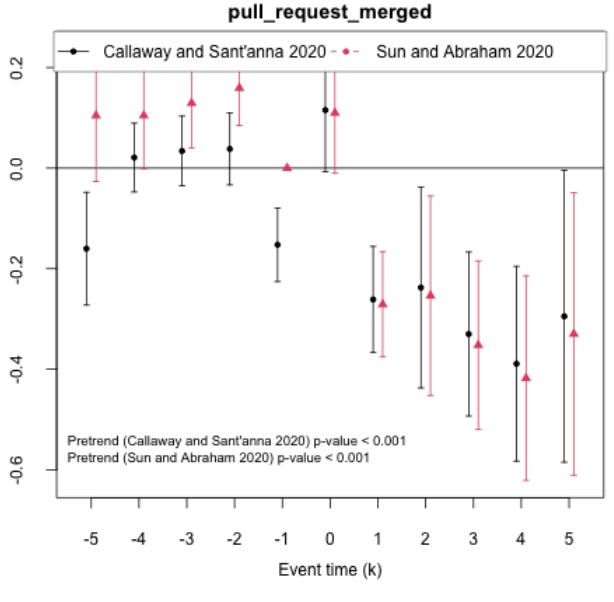
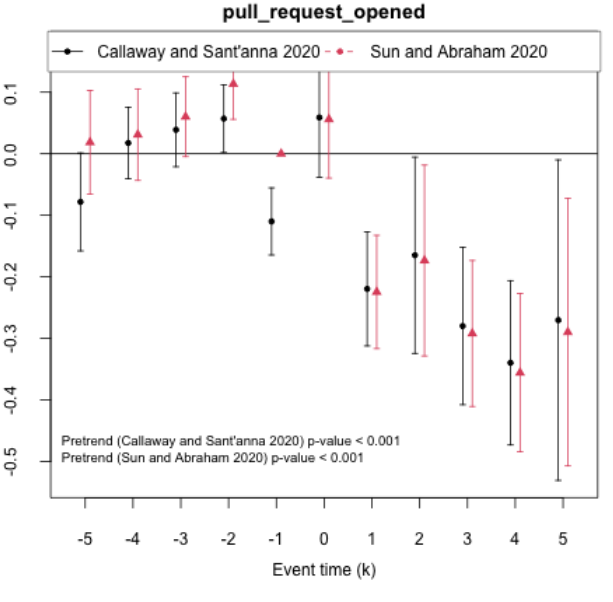
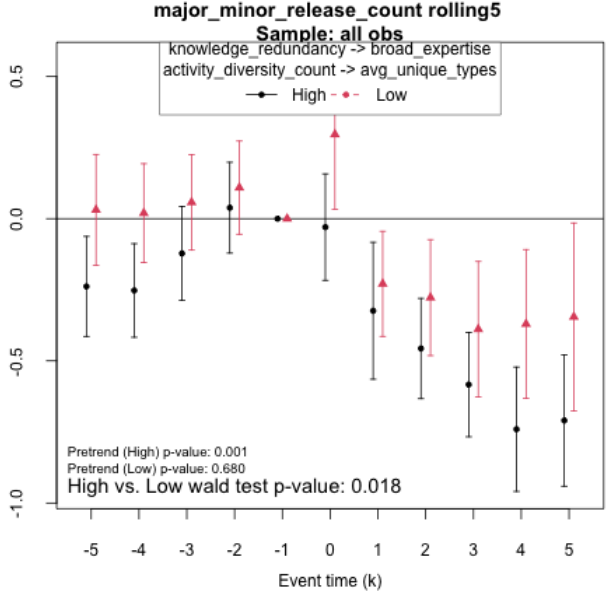
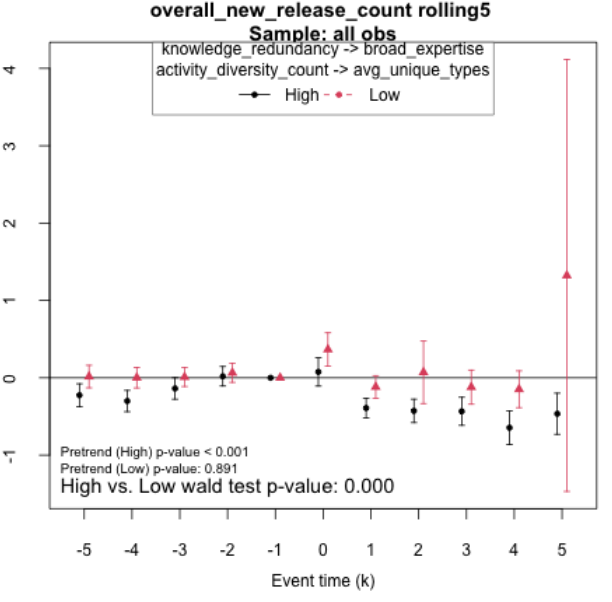

major_minor_release_count
Callaway and Sant'anna 2020
Sun and Abraham 2020
Pretrend (Callaway and Sant'anna 2020) p-value: 0.006
Pretrend (Sun and Abraham 2020) p-value: 0.107
Event time (k)

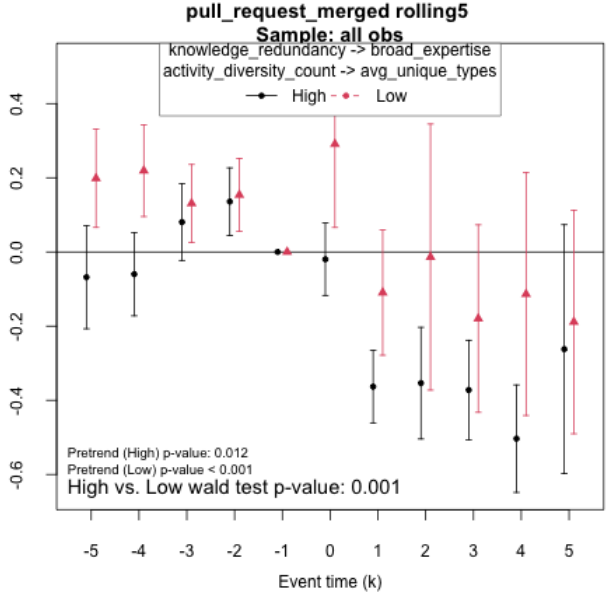

overall_new_release_count
Callaway and Sant'anna 2020
Sun and Abraham 2020
Pretrend (Callaway and Sant'anna 2020) p-value < 0.001
Pretrend (Sun and Abraham 2020) p-value: 0.002
Event time (k)

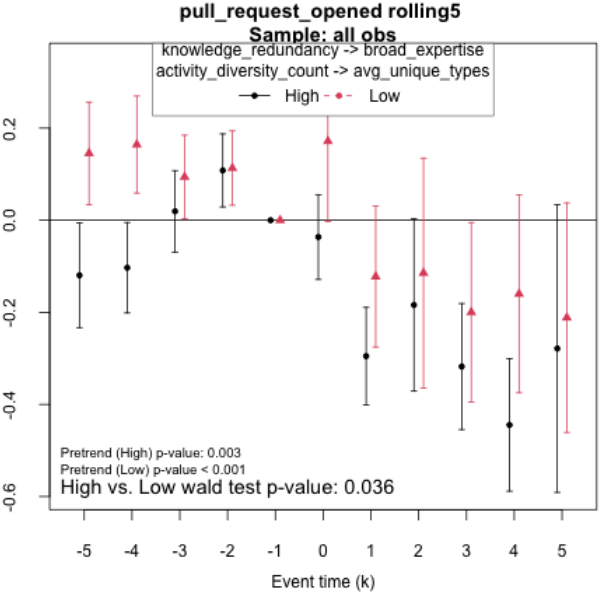

pull_request_merged
Callaway and Sant'anna 2020
Sun and Abraham 2020
Pretrend (Callaway and Sant'anna 2020) p-value < 0.001
Pretrend (Sun and Abraham 2020) p-value < 0.001
Event time (k)

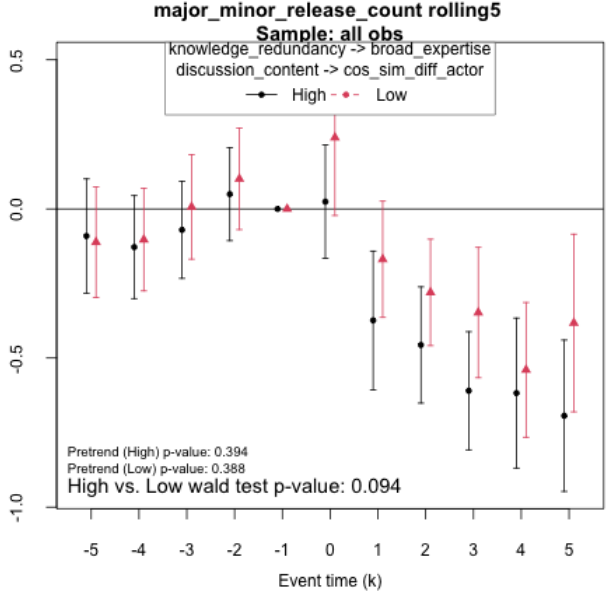

pull_request_opened
Callaway and Sant'anna 2020
Sun and Abraham 2020
Pretrend (Callaway and Sant'anna 2020) p-value < 0.001
Pretrend (Sun and Abraham 2020) p-value < 0.001
Event time (k)

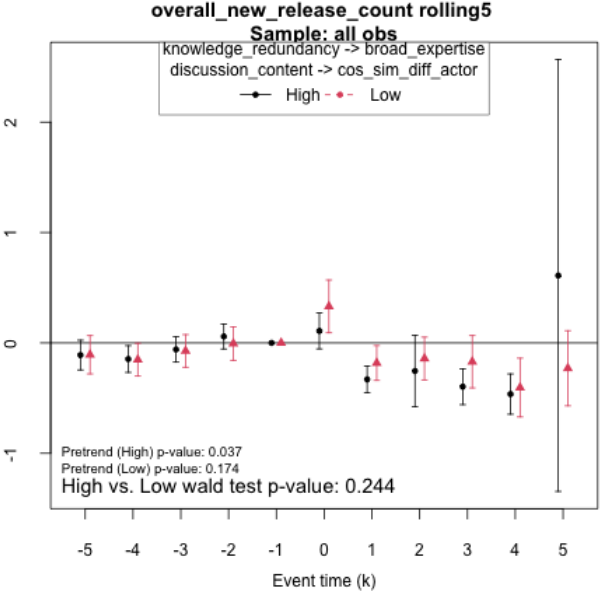

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
activity_diversity_count -> avg_unique_types
High
Low
Pretrend (High) p-value: 0.001
Pretrend (Low) p-value: 0.680
High vs. Low wald test p-value: 0.018
Event time (k)

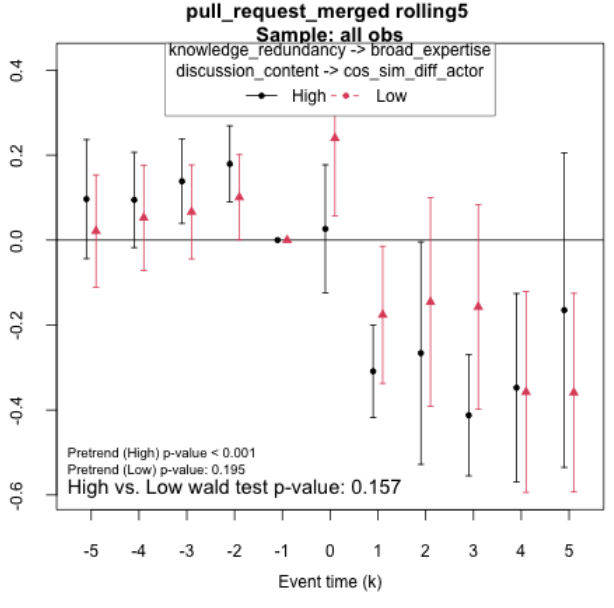

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
activity_diversity_count -> avg_unique_types
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.891
High vs. Low wald test p-value: 0.000
Event time (k)

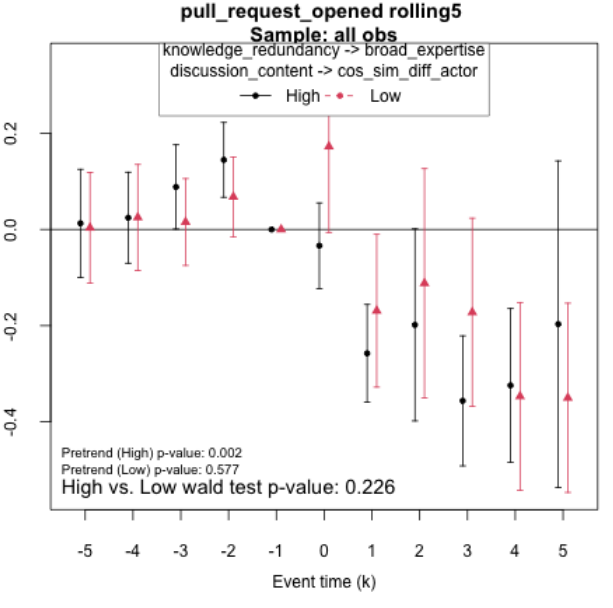

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
activity_diversity_count -> avg_unique_types
High
Low
Pretrend (High) p-value: 0.012
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.001
Event time (k)

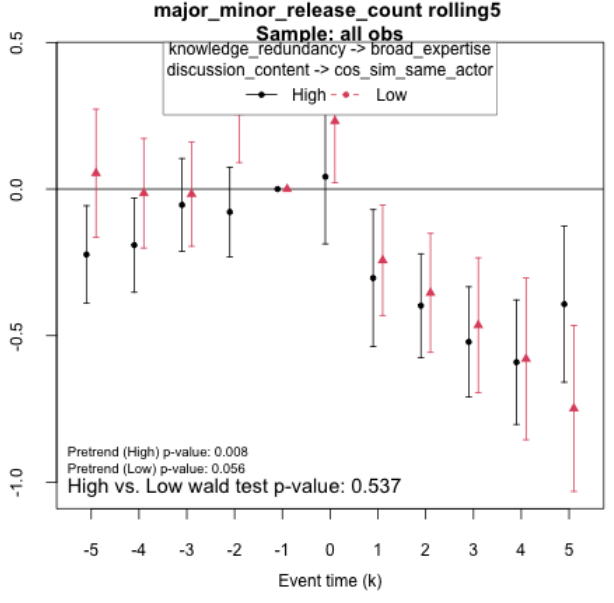

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
activity_diversity_count -> avg_unique_types
High
Low
Pretrend (High) p-value: 0.003
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.036
Event time (k)

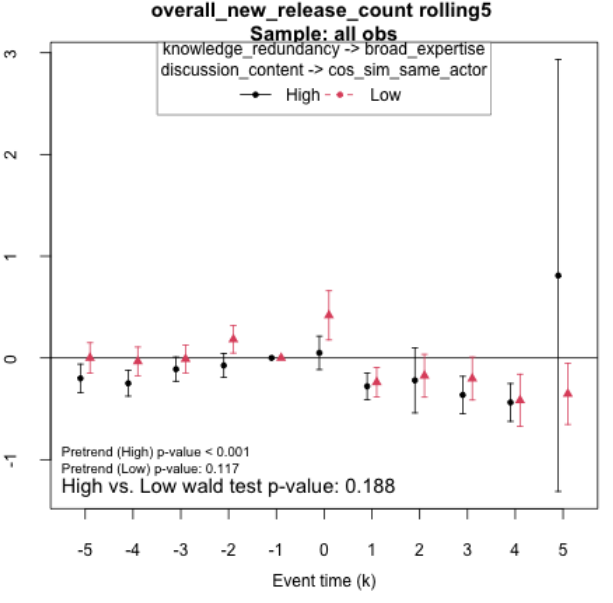

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_diff_actor
High
Low
Pretrend (High) p-value: 0.394
Pretrend (Low) p-value: 0.388
High vs. Low wald test p-value: 0.094
Event time (k)

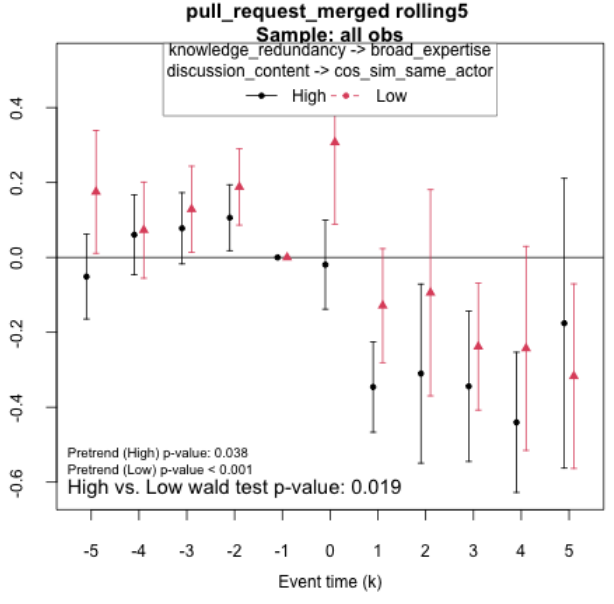

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_diff_actor
High
Low
Pretrend (High) p-value: 0.037
Pretrend (Low) p-value: 0.174
High vs. Low wald test p-value: 0.244
Event time (k)

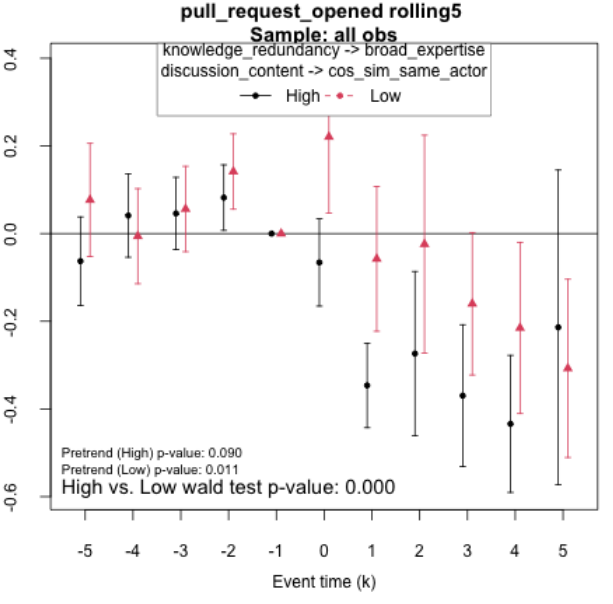

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_diff_actor
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.195
High vs. Low wald test p-value: 0.157
Event time (k)

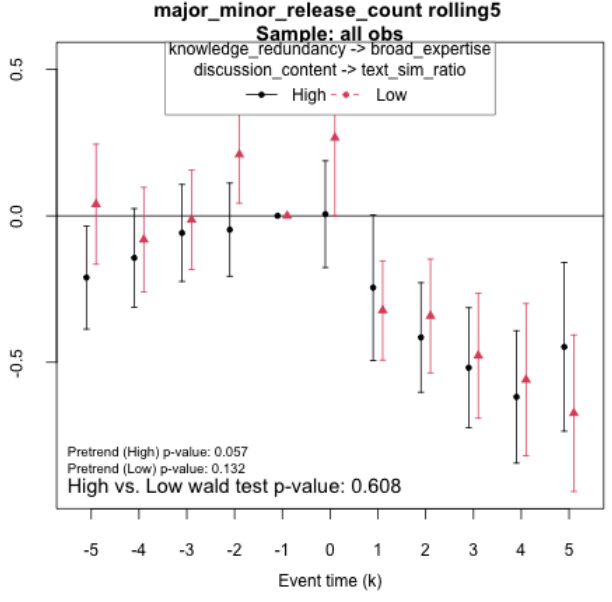

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_diff_actor
High
Low
Pretrend (High) p-value: 0.002
Pretrend (Low) p-value: 0.577
High vs. Low wald test p-value: 0.226
Event time (k)

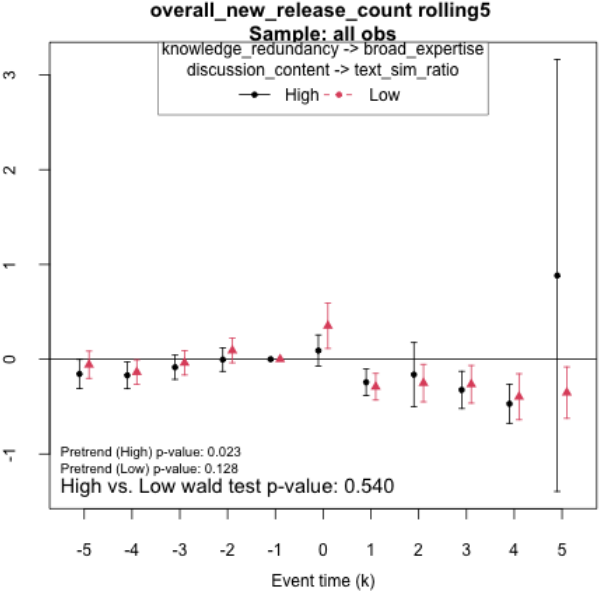

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_same_actor
High
Low
Pretrend (High) p-value: 0.008
Pretrend (Low) p-value: 0.056
High vs. Low wald test p-value: 0.537
Event time (k)

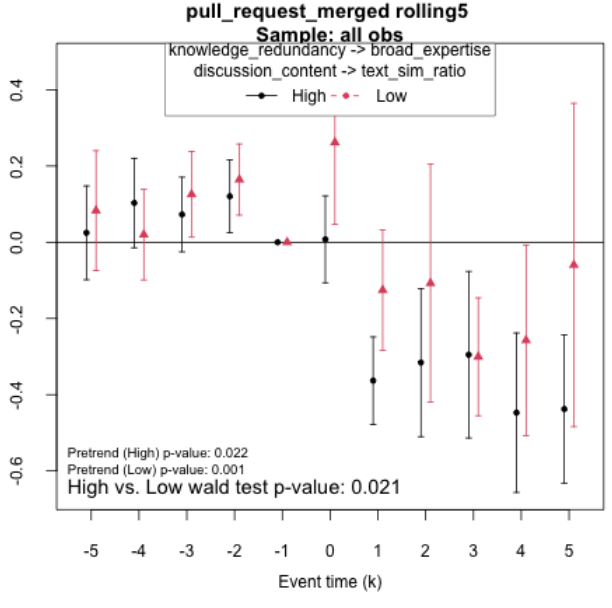

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_same_actor
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.117
High vs. Low wald test p-value: 0.188
Event time (k)

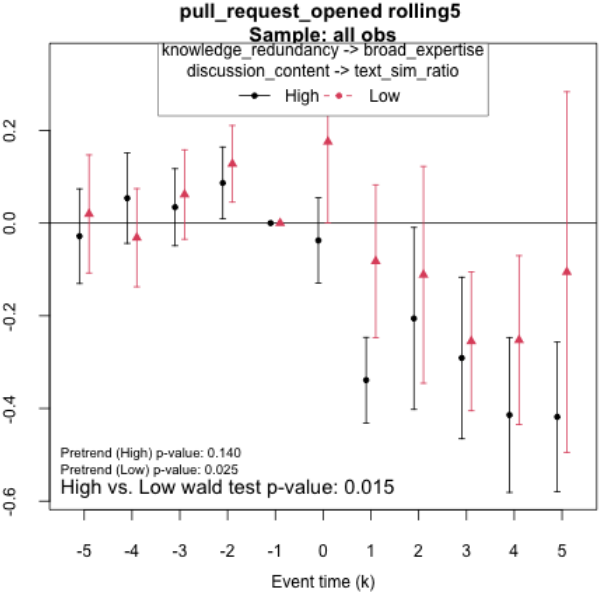

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_same_actor
High
Low
Pretrend (High) p-value: 0.038
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.019
Event time (k)

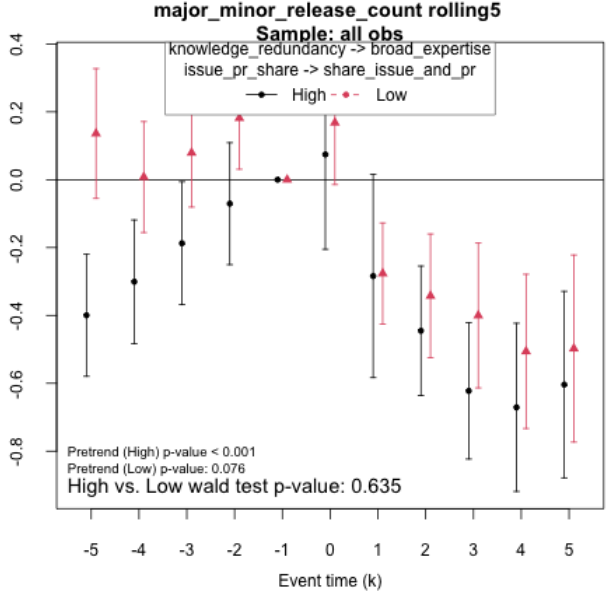

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_same_actor
High
Low
Pretrend (High) p-value: 0.090
Pretrend (Low) p-value: 0.011
High vs. Low wald test p-value: 0.000
Event time (k)

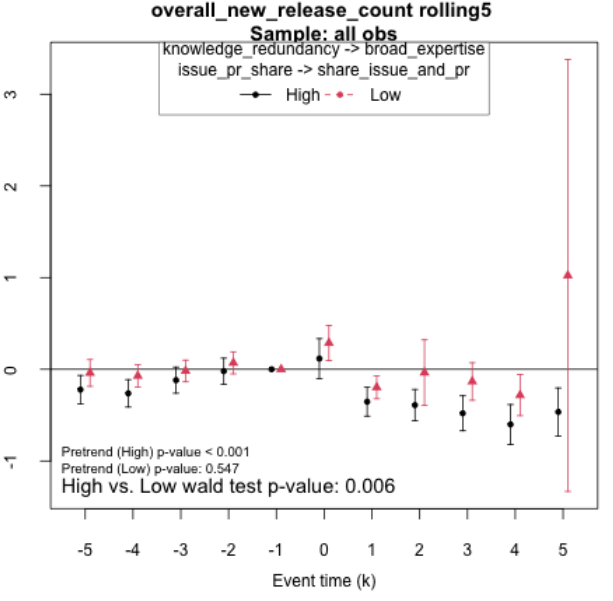

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> text_sim_ratio
High
Low
Pretrend (High) p-value: 0.057
Pretrend (Low) p-value: 0.132
High vs. Low wald test p-value: 0.608
Event time (k)

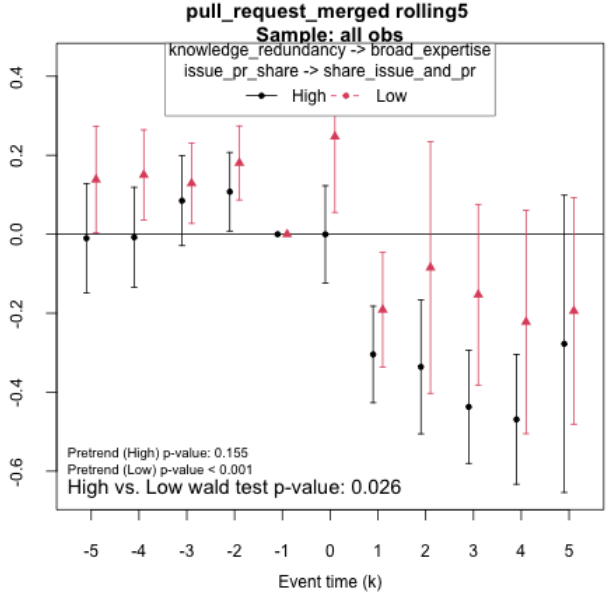

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> text_sim_ratio
High
Low
Pretrend (High) p-value: 0.023
Pretrend (Low) p-value: 0.128
High vs. Low wald test p-value: 0.540
Event time (k)

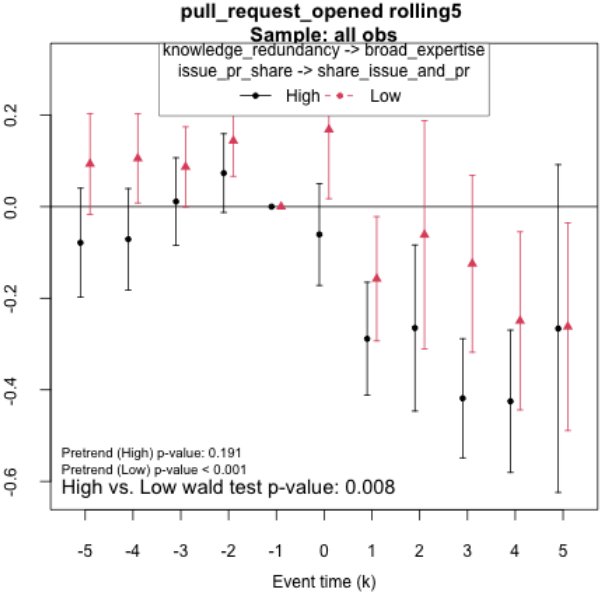

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> text_sim_ratio
High
Low
Pretrend (High) p-value: 0.022
Pretrend (Low) p-value: 0.001
High vs. Low wald test p-value: 0.021
Event time (k)

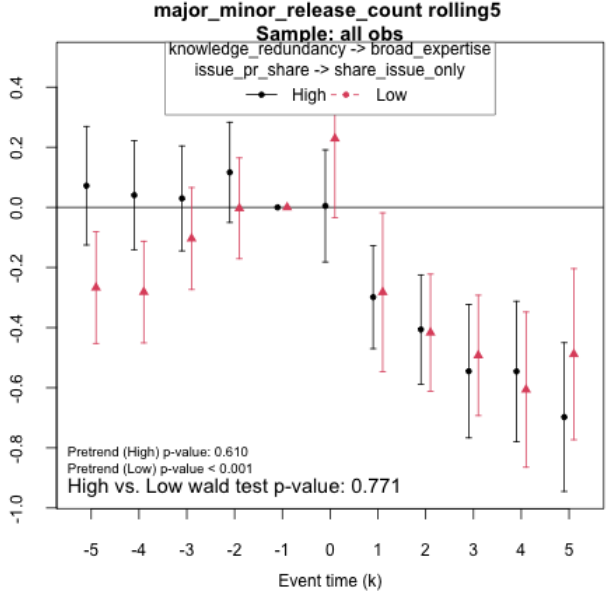

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
discussion_content -> text_sim_ratio
High
Low
Pretrend (High) p-value: 0.140
Pretrend (Low) p-value: 0.025
High vs. Low wald test p-value: 0.015
Event time (k)

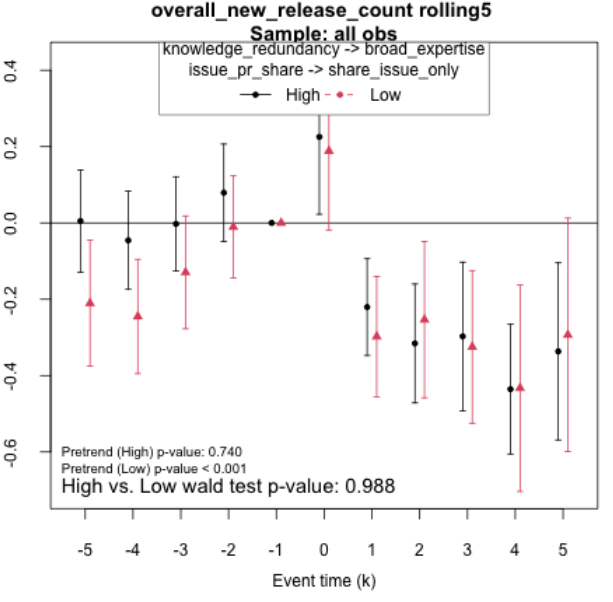

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_and_pr
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.076
High vs. Low wald test p-value: 0.635
Event time (k)

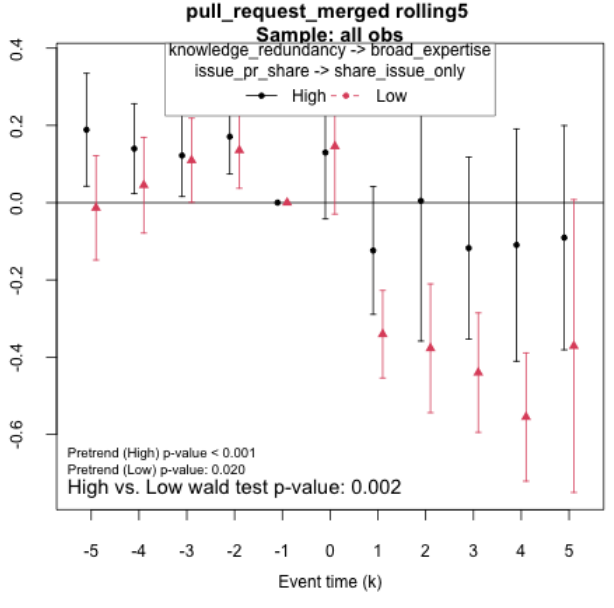

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_and_pr
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.547
High vs. Low wald test p-value: 0.006
Event time (k)

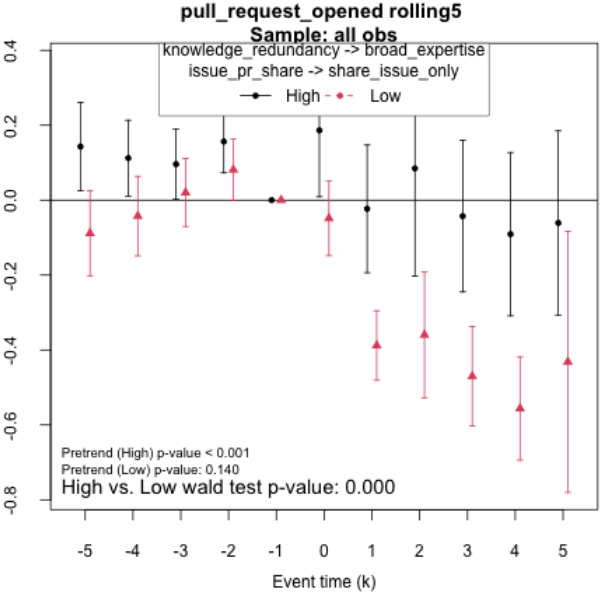

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_and_pr
High
Low
Pretrend (High) p-value: 0.155
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.026
Event time (k)

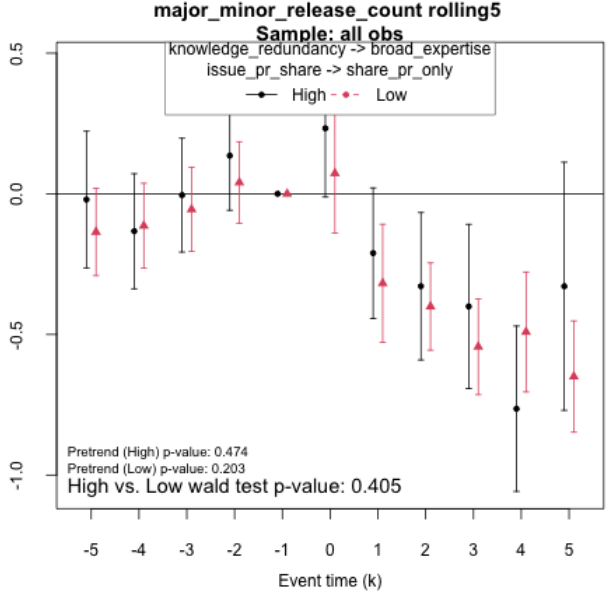

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_and_pr
High
Low
Pretrend (High) p-value: 0.191
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.008
Event time (k)

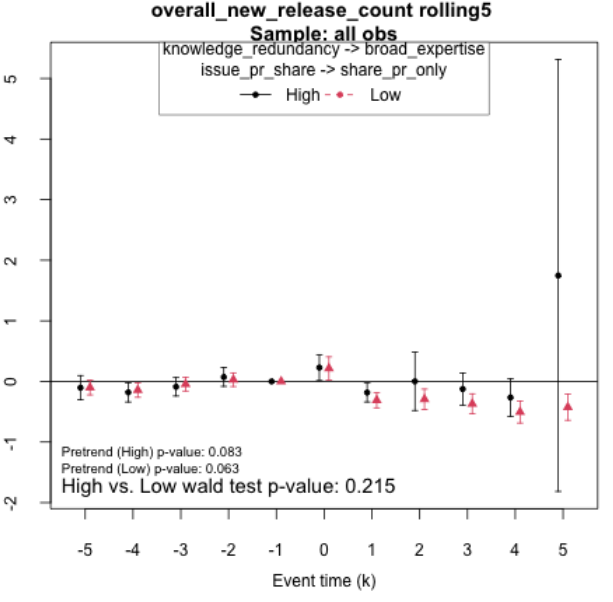

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_only
High
Low
Pretrend (High) p-value: 0.610
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.771
Event time (k)

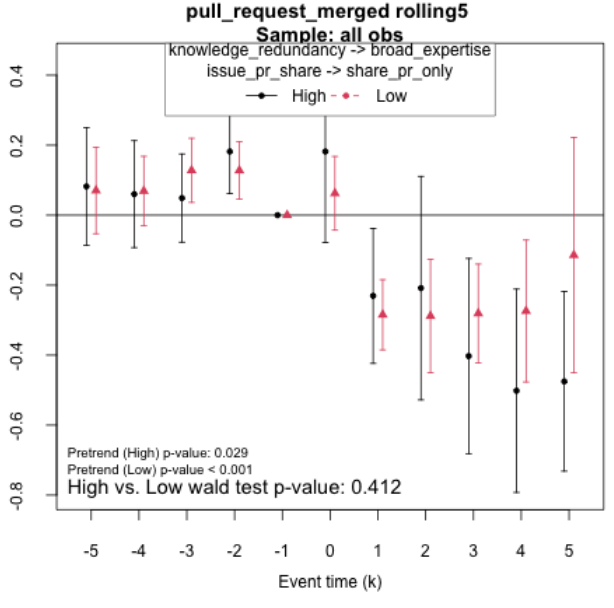

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_only
High
Low
Pretrend (High) p-value: 0.740
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.988
Event time (k)

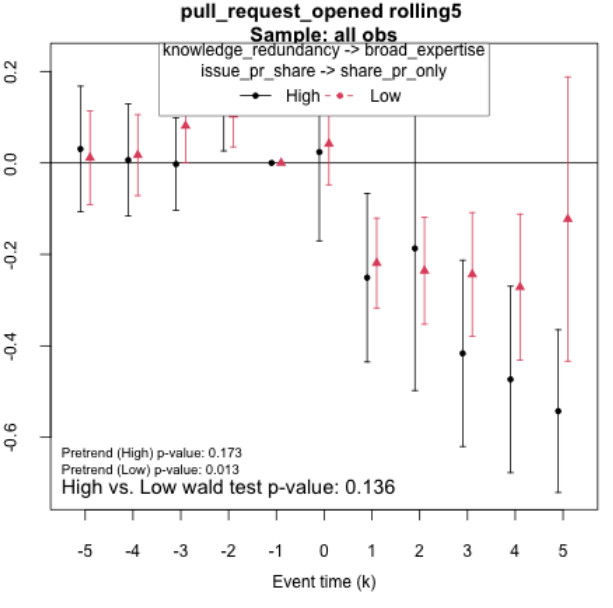

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_only
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.020
High vs. Low wald test p-value: 0.002
Event time (k)

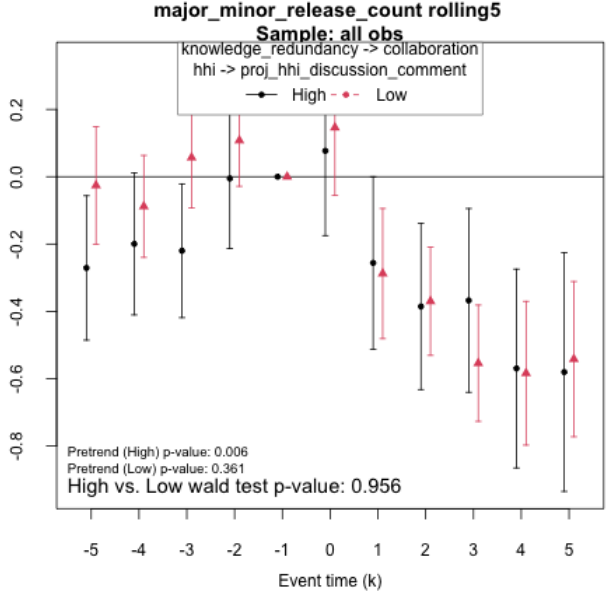

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_only
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.140
High vs. Low wald test p-value: 0.000
Event time (k)

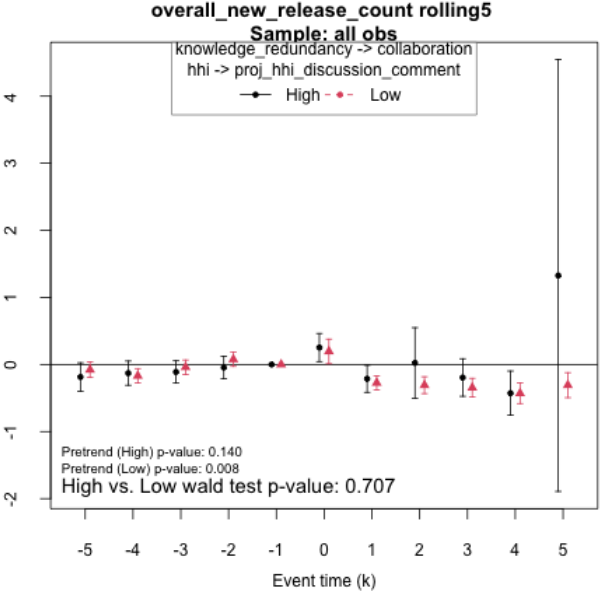

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_pr_only
High
Low
Pretrend (High) p-value: 0.474
Pretrend (Low) p-value: 0.203
High vs. Low wald test p-value: 0.405
Event time (k)

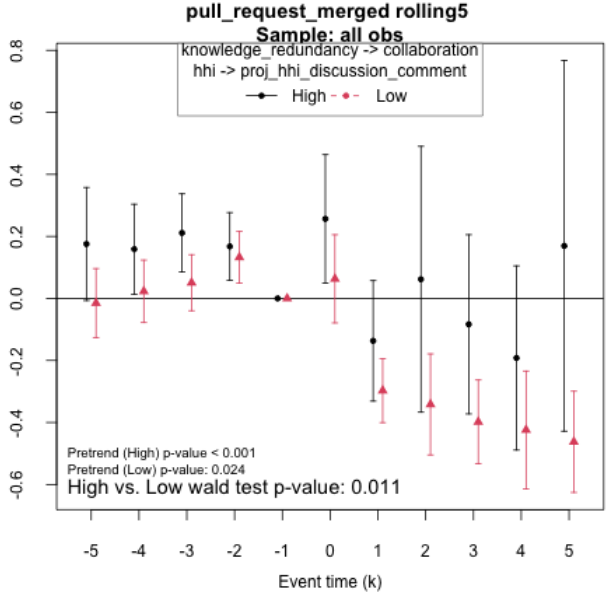

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_pr_only
High
Low
Pretrend (High) p-value: 0.083
Pretrend (Low) p-value: 0.063
High vs. Low wald test p-value: 0.215
Event time (k)

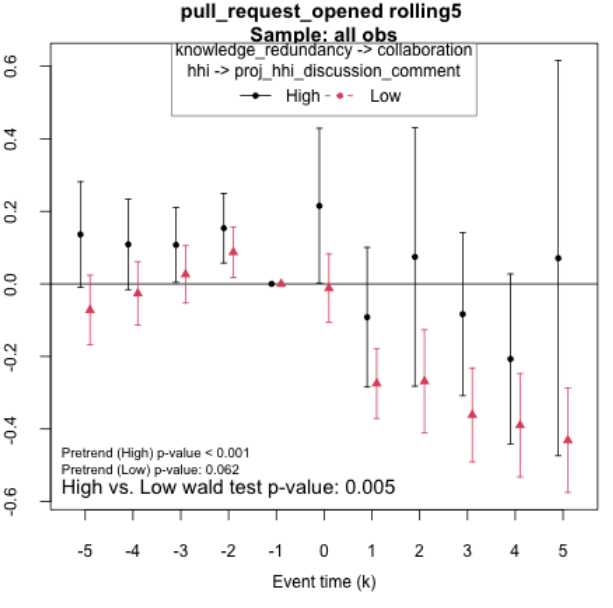

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_pr_only
High
Low
Pretrend (High) p-value: 0.029
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.412
Event time (k)

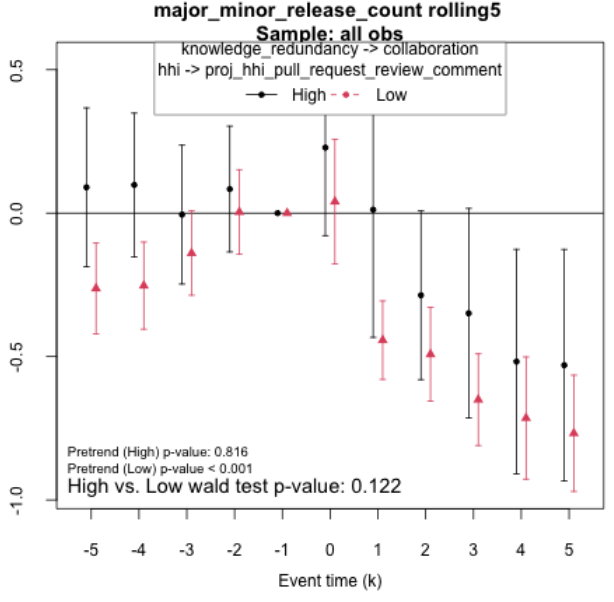

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_pr_only
High
Low
Pretrend (High) p-value: 0.173
Pretrend (Low) p-value: 0.013
High vs. Low wald test p-value: 0.136
Event time (k)

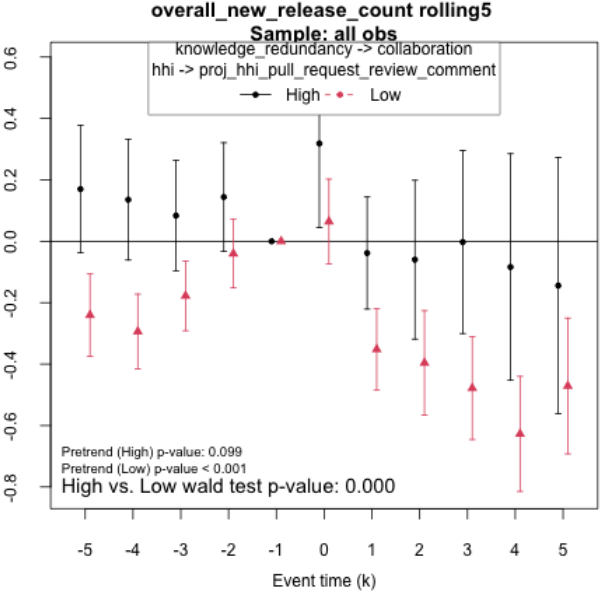

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
hhi -> proj_hhi_discussion_comment
High
Low
Pretrend (High) p-value: 0.006
Pretrend (Low) p-value: 0.361
High vs. Low wald test p-value: 0.956
Event time (k)

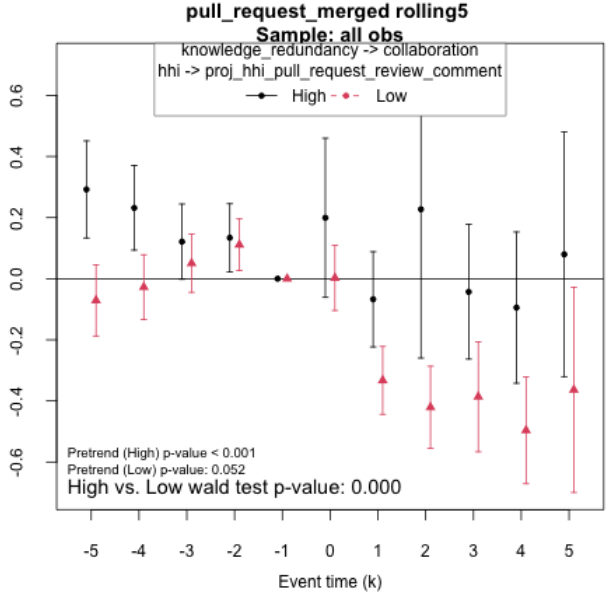

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
hhi -> proj_hhi_discussion_comment
High
Low
Pretrend (High) p-value: 0.140
Pretrend (Low) p-value: 0.008
High vs. Low wald test p-value: 0.707
Event time (k)

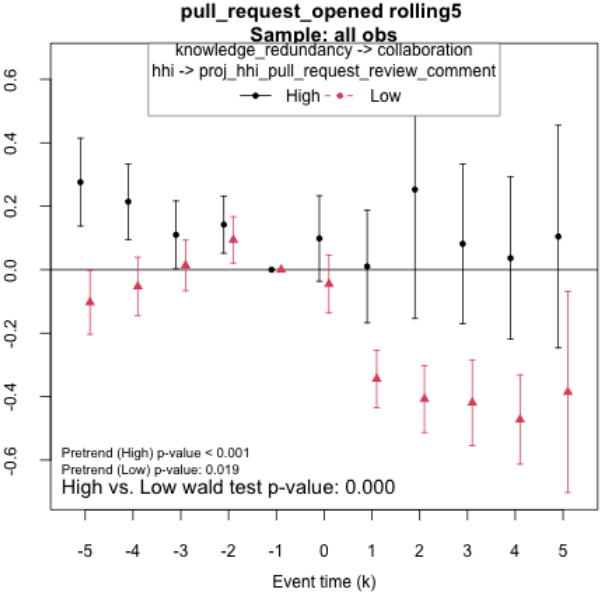

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> collaboration
hhi -> proj_hhi_discussion_comment
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.024
High vs. Low wald test p-value: 0.011
Event time (k)

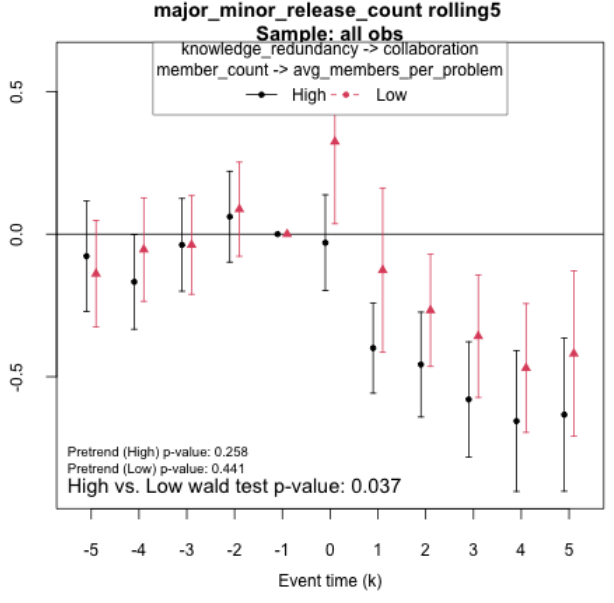

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> collaboration
hhi -> proj_hhi_discussion_comment
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.062
High vs. Low wald test p-value: 0.005
Event time (k)

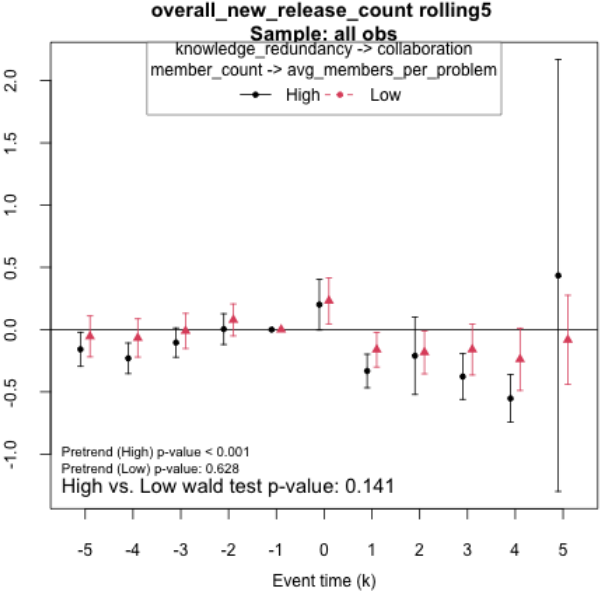

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
hhi -> proj_hhi_pull_request_review_comment
High
Low
Pretrend (High) p-value: 0.816
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.122
Event time (k)

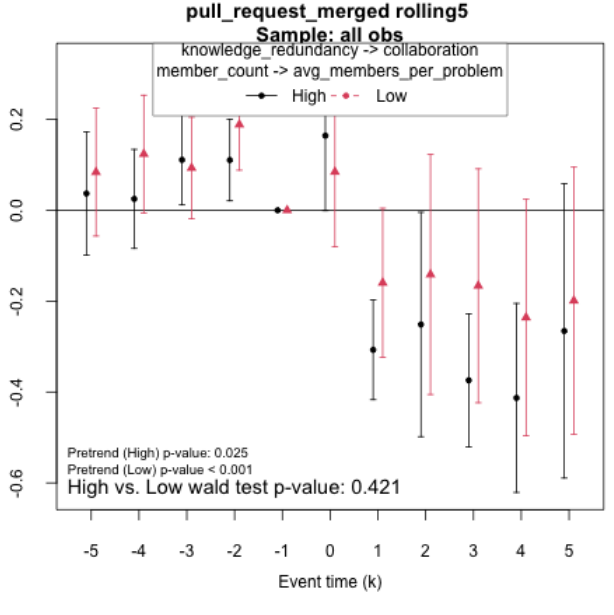

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
hhi -> proj_hhi_pull_request_review_comment
High
Low
Pretrend (High) p-value: 0.099
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.000
Event time (k)

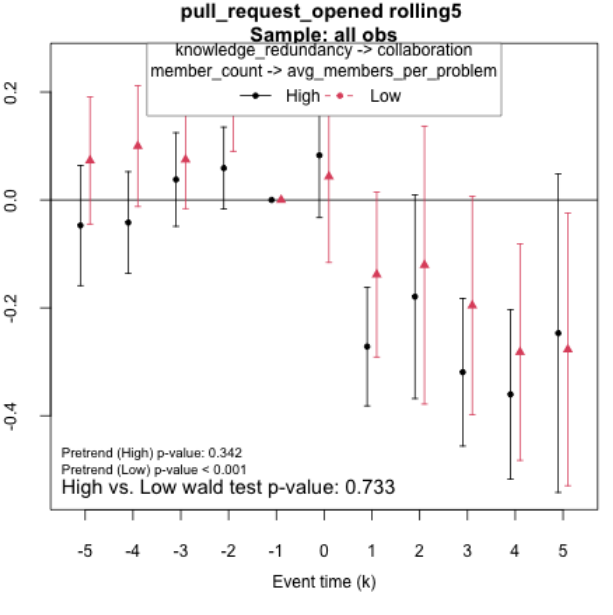

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> collaboration
hhi -> proj_hhi_pull_request_review_comment
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.052
High vs. Low wald test p-value: 0.000
Event time (k)

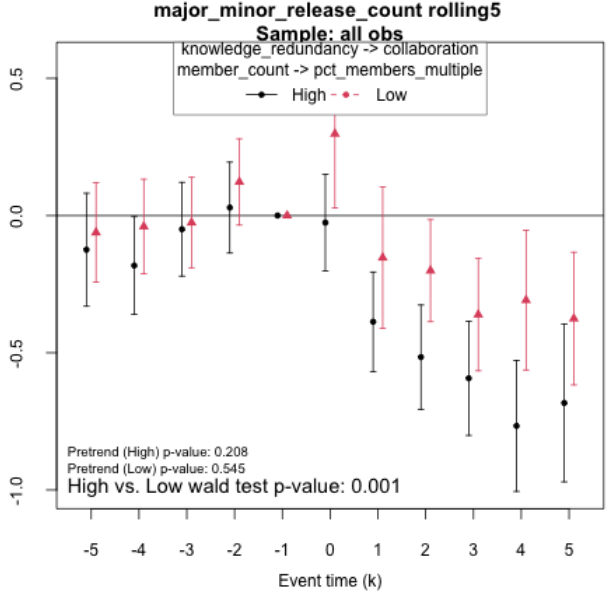

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> collaboration
hhi -> proj_hhi_pull_request_review_comment
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.019
High vs. Low wald test p-value: 0.000
Event time (k)

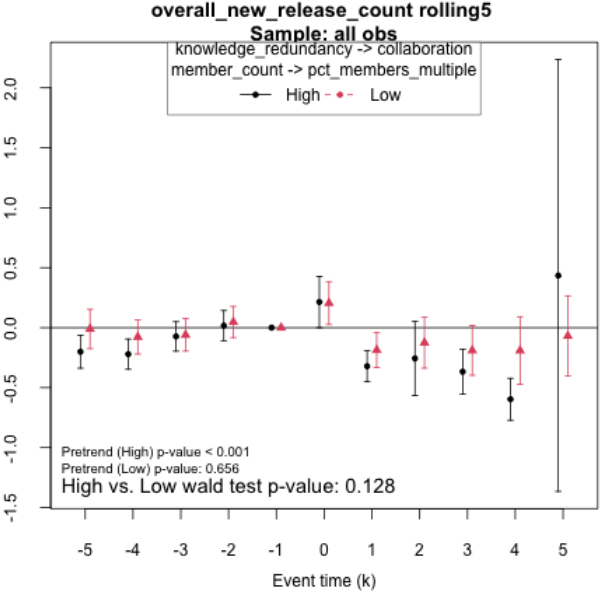

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
member_count -> avg_members_per_problem
High
Low
0.5
0.0
-0.5
Pretrend (High) p-value: 0.258
Pretrend (Low) p-value: 0.441
High vs. Low wald test p-value: 0.037
-5
-4
-3
-2
-1
0
1
2
3
4
5
Event time (k)

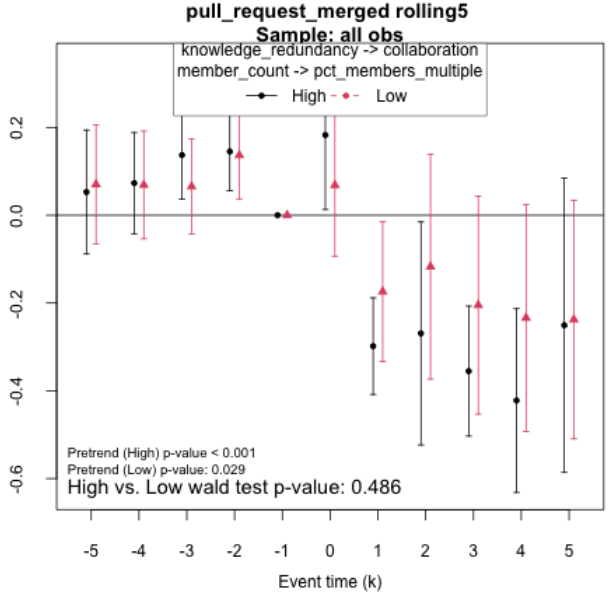

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
member_count -> avg_members_per_problem
High
Low
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.628
High vs. Low wald test p-value: 0.141
-5
-4
-3
-2
-1
0
1
2
3
4
5
Event time (k)

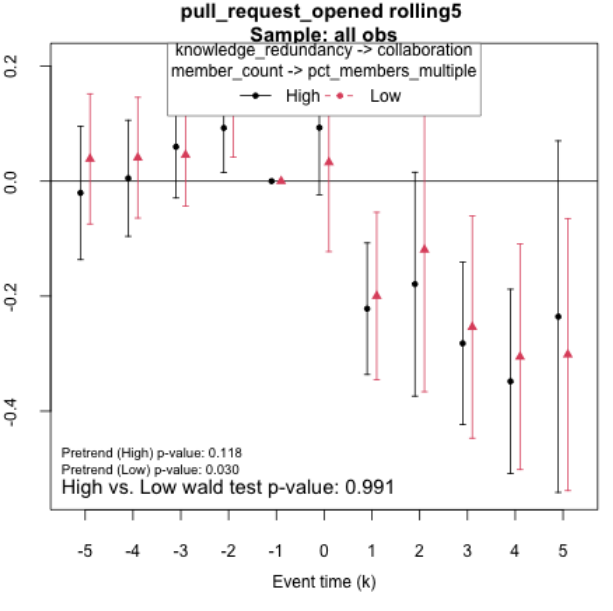

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> collaboration
member_count -> avg_members_per_problem
High
Low
0.2
0.0
-0.2
-0.4
-0.6
Pretrend (High) p-value: 0.025
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.421
-5
-4
-3
-2
-1
0
1
2
3
4
5
Event time (k)

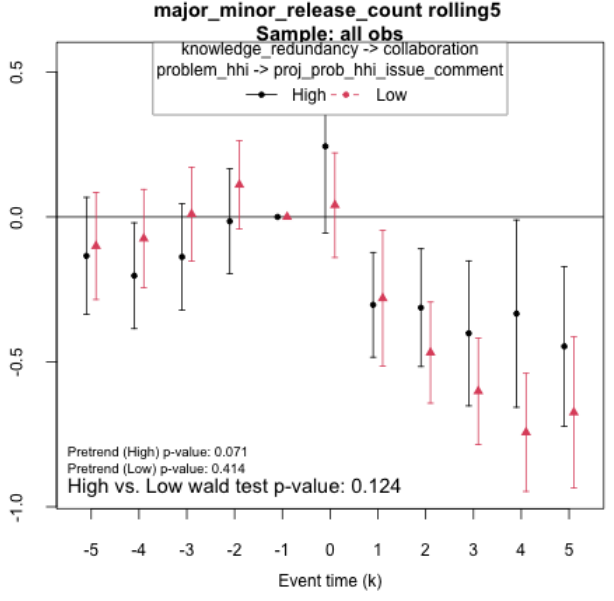

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> collaboration
member_count -> avg_members_per_problem
High
Low
0.2
0.0
-0.2
-0.4
Pretrend (High) p-value: 0.342
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.733
-5
-4
-3
-2
-1
0
1
2
3
4
5
Event time (k)

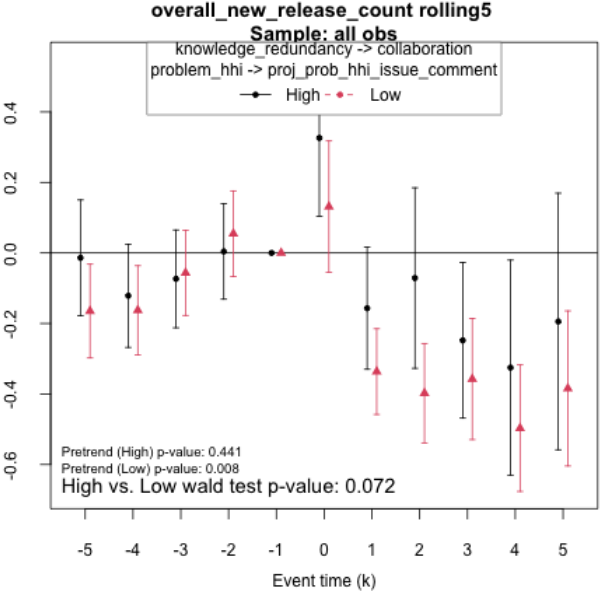

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
member_count -> pct_members_multiple
High
Low
Pretrend (High) p-value: 0.208
Pretrend (Low) p-value: 0.545
High vs. Low wald test p-value: 0.001
Event time (k)

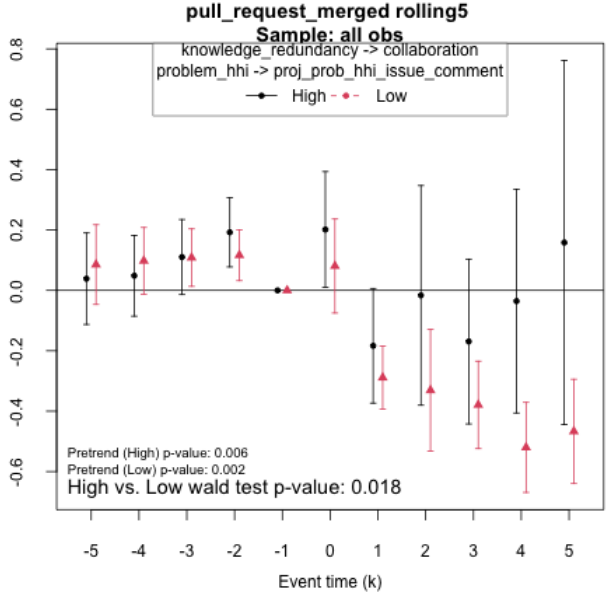

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
member_count -> pct_members_multiple
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.656
High vs. Low wald test p-value: 0.128
Event time (k)

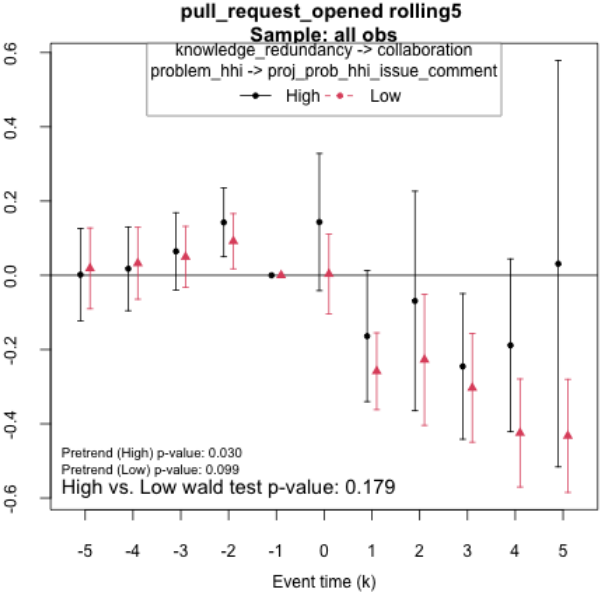

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> collaboration
member_count -> pct_members_multiple
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.029
High vs. Low wald test p-value: 0.486
Event time (k)

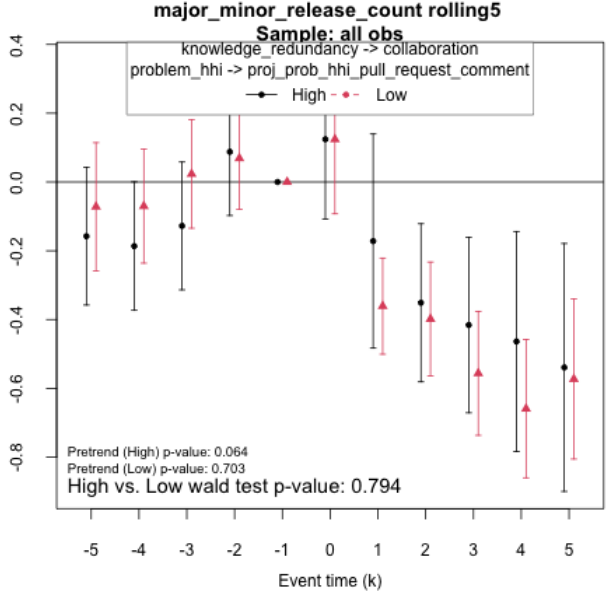

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> collaboration
member_count -> pct_members_multiple
High
Low
Pretrend (High) p-value: 0.118
Pretrend (Low) p-value: 0.030
High vs. Low wald test p-value: 0.991
Event time (k)

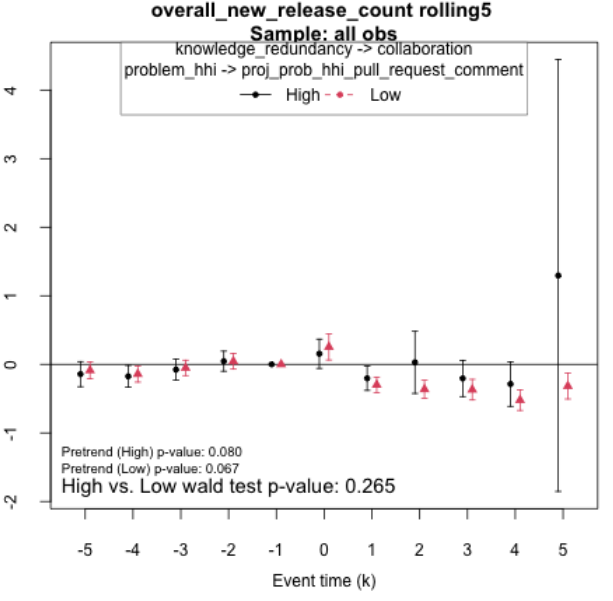

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_issue_comment
High
Low
Pretrend (High) p-value: 0.071
Pretrend (Low) p-value: 0.414
High vs. Low wald test p-value: 0.124
Event time (k)

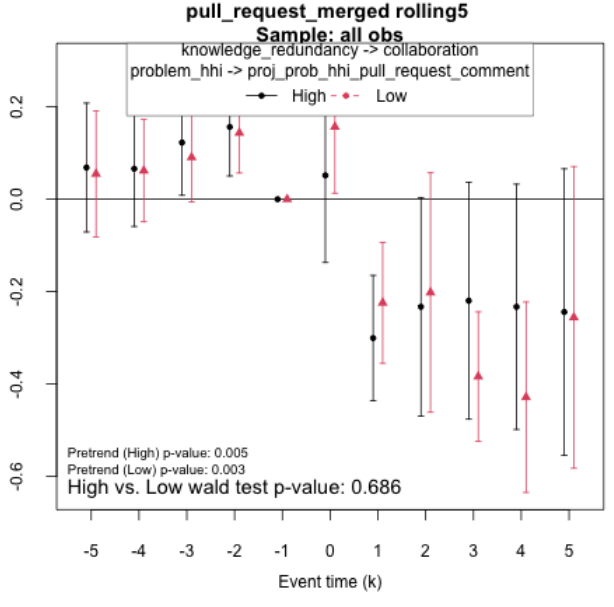

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_issue_comment
High
Low
Pretrend (High) p-value: 0.441
Pretrend (Low) p-value: 0.008
High vs. Low wald test p-value: 0.072
Event time (k)

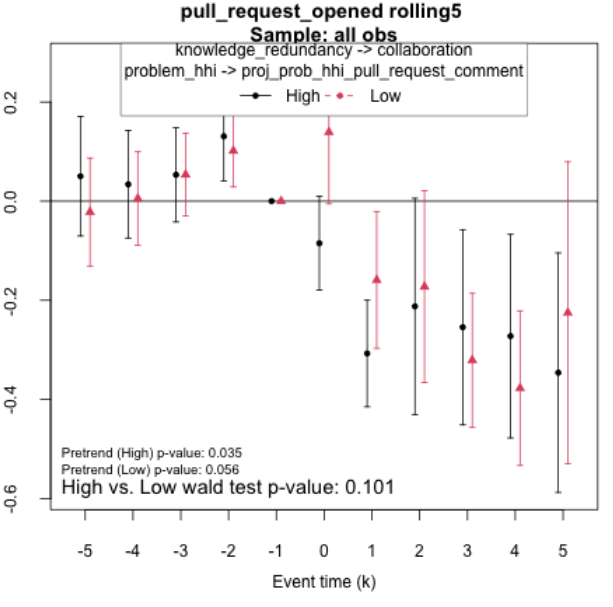

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_issue_comment
High
Low
Pretrend (High) p-value: 0.006
Pretrend (Low) p-value: 0.002
High vs. Low wald test p-value: 0.018
Event time (k)

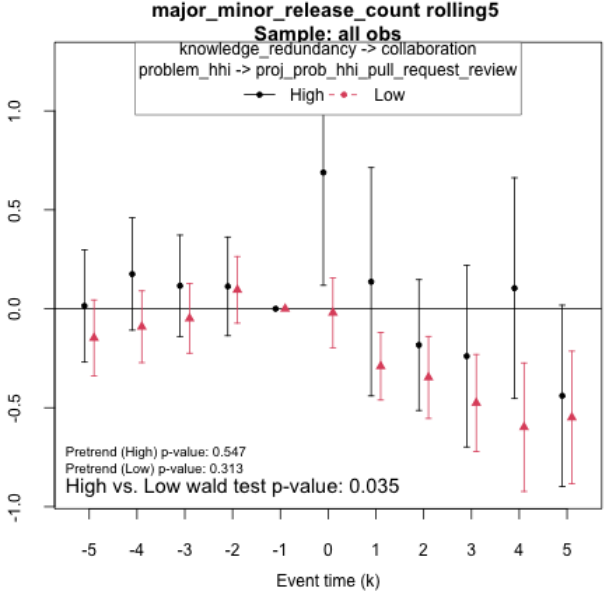

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_issue_comment
High
Low
Pretrend (High) p-value: 0.030
Pretrend (Low) p-value: 0.099
High vs. Low wald test p-value: 0.179
Event time (k)

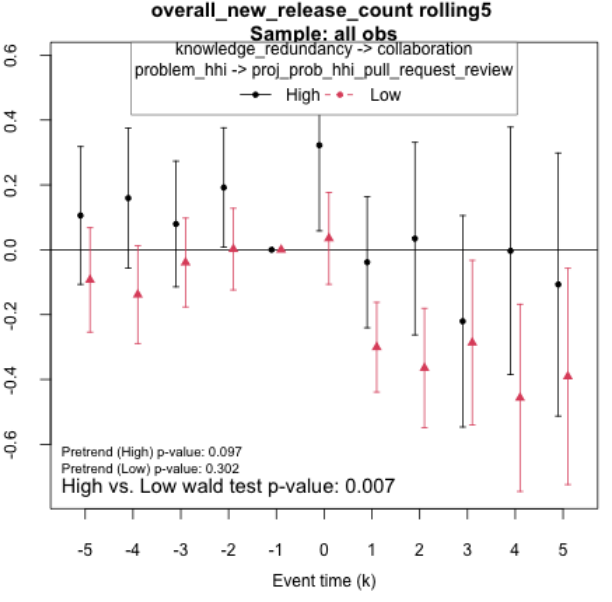

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_comment
High
Low
Pretrend (High) p-value: 0.064
Pretrend (Low) p-value: 0.703
High vs. Low wald test p-value: 0.794
Event time (k)

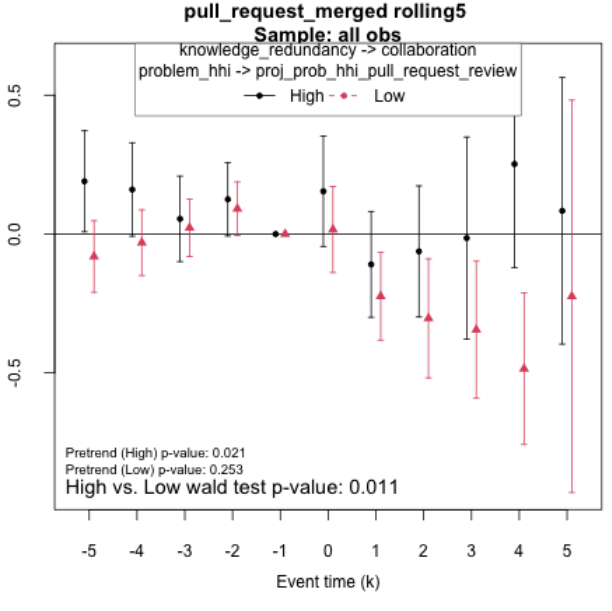

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_comment
High
Low
Pretrend (High) p-value: 0.080
Pretrend (Low) p-value: 0.067
High vs. Low wald test p-value: 0.265
Event time (k)

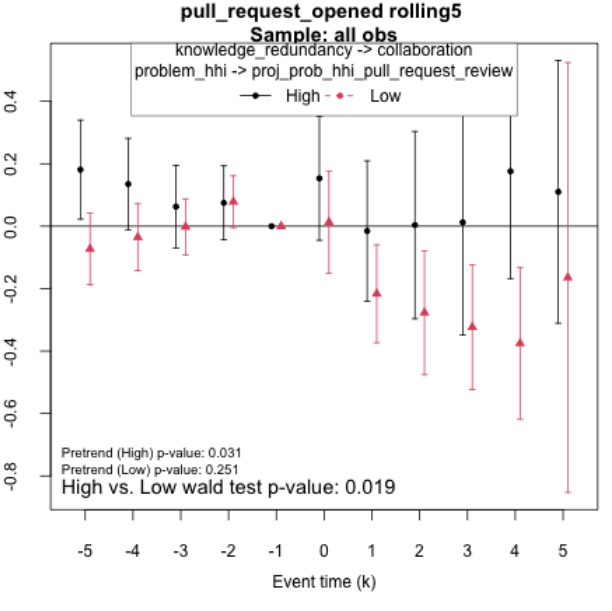

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_comment
High
Low
Pretrend (High) p-value: 0.005
Pretrend (Low) p-value: 0.003
High vs. Low wald test p-value: 0.686
Event time (k)

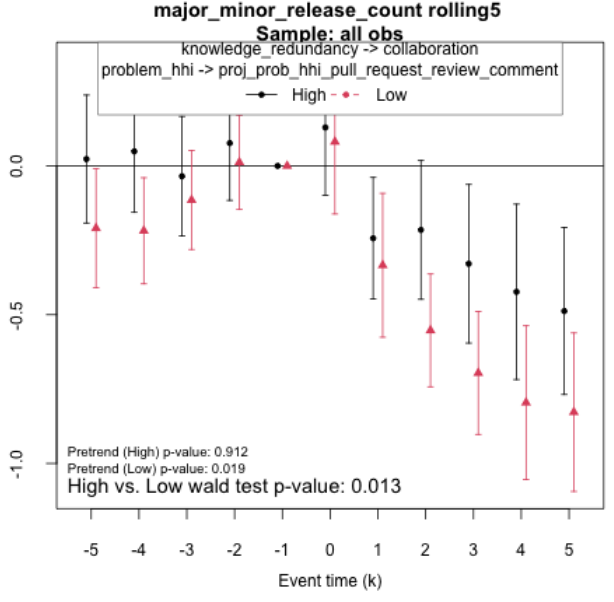

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_comment
High
Low
Pretrend (High) p-value: 0.035
Pretrend (Low) p-value: 0.056
High vs. Low wald test p-value: 0.101
Event time (k)

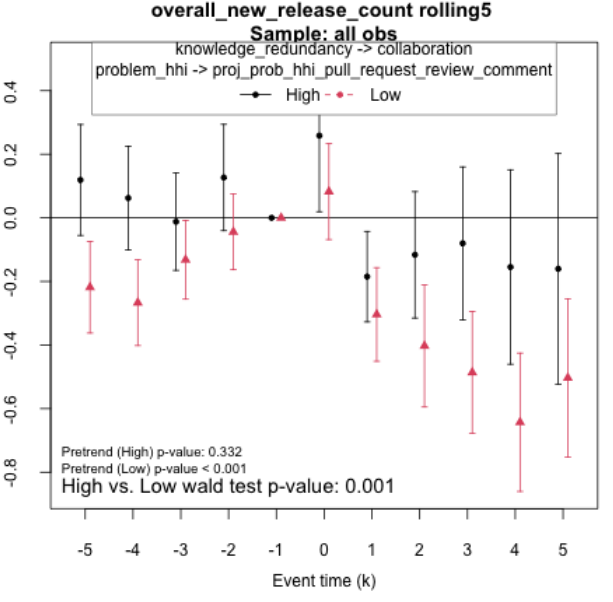

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_review
High
Low
Pretrend (High) p-value: 0.547
Pretrend (Low) p-value: 0.313
High vs. Low wald test p-value: 0.035
Event time (k)

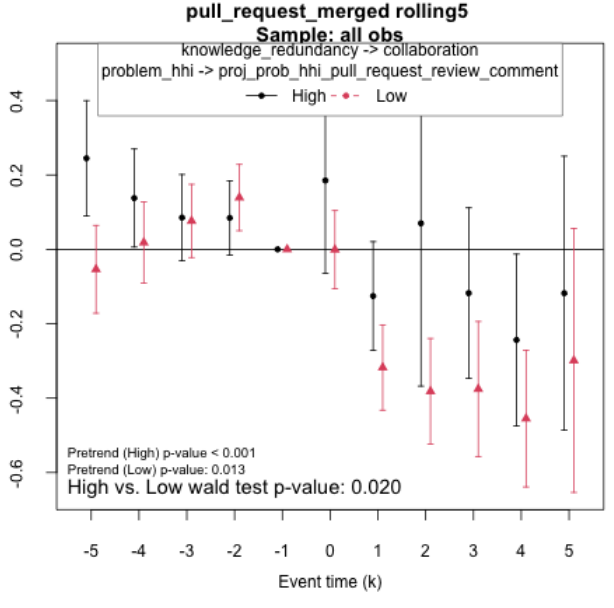

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_review
High
Low
Pretrend (High) p-value: 0.097
Pretrend (Low) p-value: 0.302
High vs. Low wald test p-value: 0.007
Event time (k)

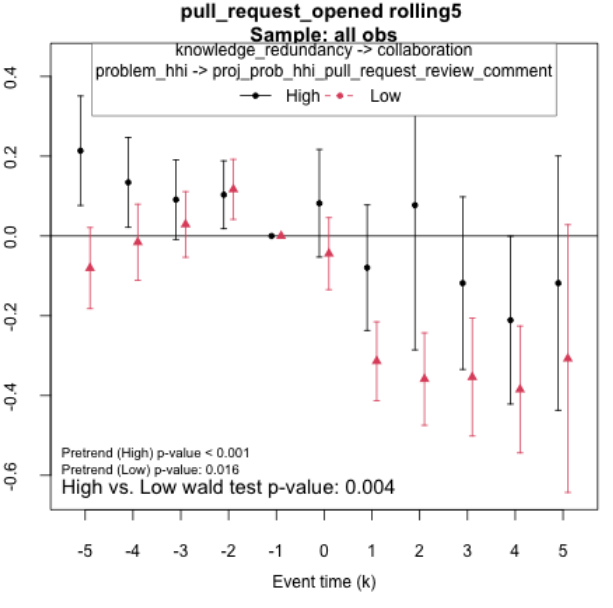

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_review
High
Low
Pretrend (High) p-value: 0.021
Pretrend (Low) p-value: 0.253
High vs. Low wald test p-value: 0.011
Event time (k)

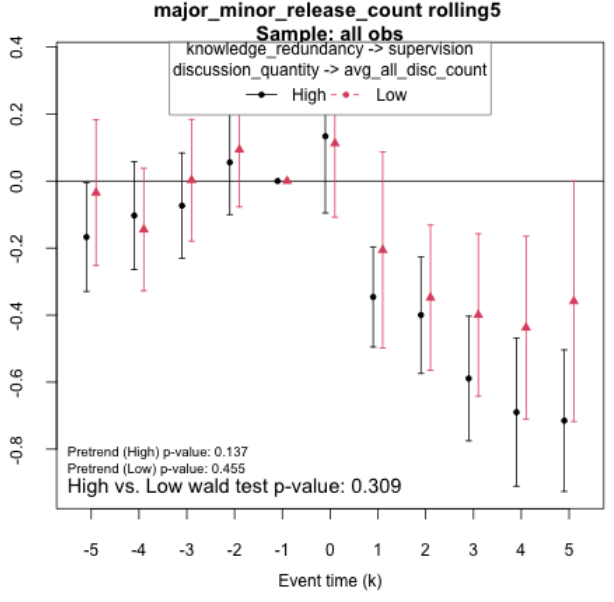

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_review
High
Low
Pretrend (High) p-value: 0.031
Pretrend (Low) p-value: 0.251
High vs. Low wald test p-value: 0.019
Event time (k)

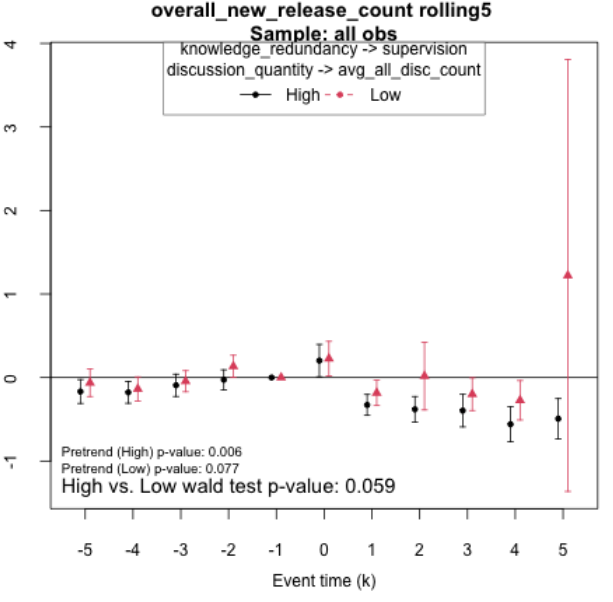

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_review_comment
High
Low
Pretrend (High) p-value: 0.912
Pretrend (Low) p-value: 0.019
High vs. Low wald test p-value: 0.013
Event time (k)

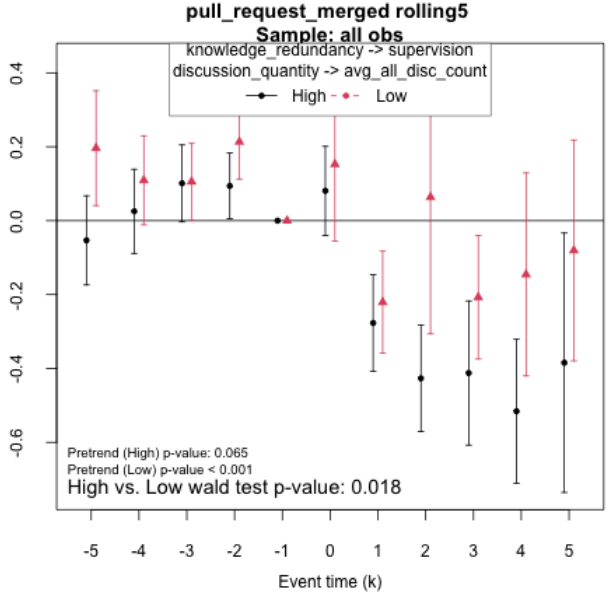

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_review_comment
High
Low
Pretrend (High) p-value: 0.332
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.001
Event time (k)

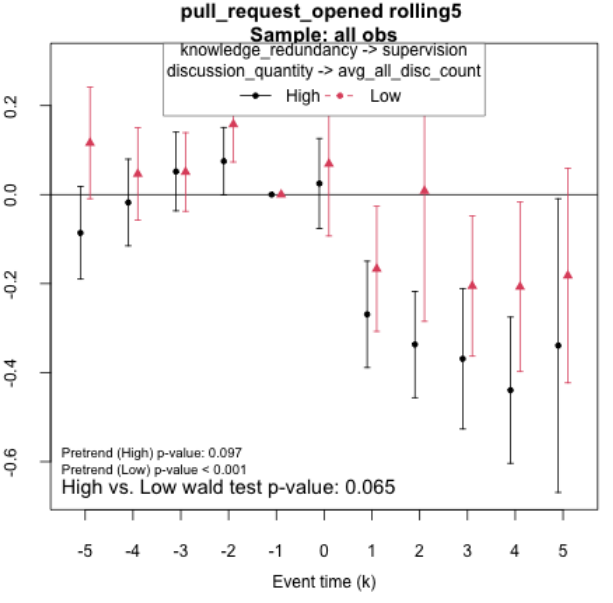

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_review_comment
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.013
High vs. Low wald test p-value: 0.020
Event time (k)

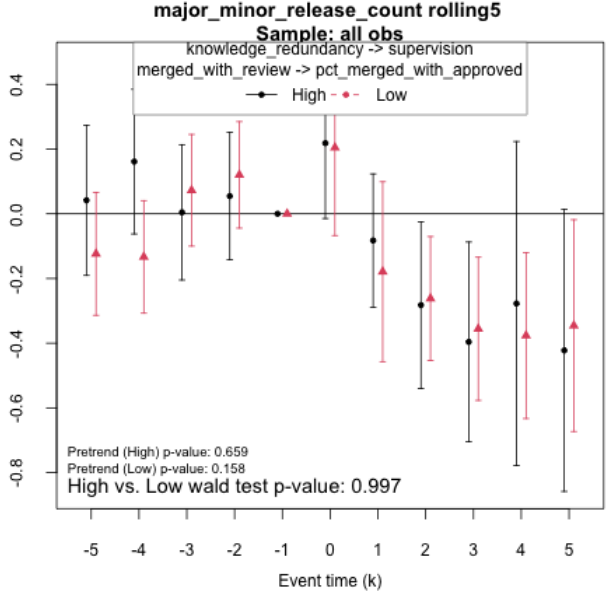

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> collaboration
problem_hhi -> proj_prob_hhi_pull_request_review_comment
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.016
High vs. Low wald test p-value: 0.004
Event time (k)

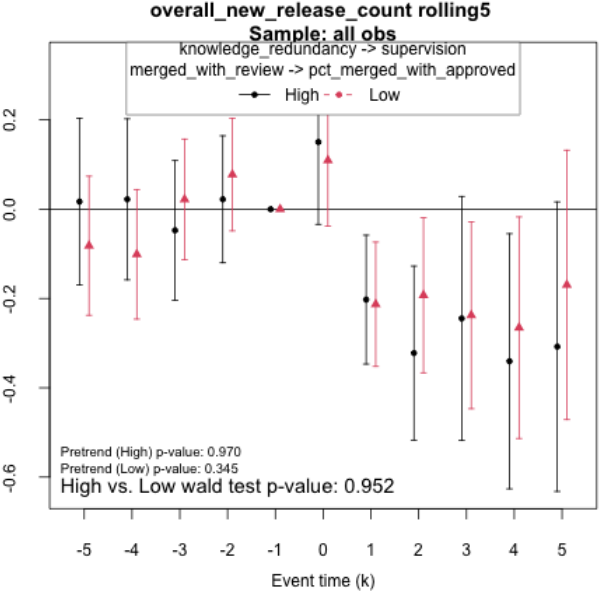

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> supervision
discussion_quantity -> avg_all_disc_count
High
Low
Pretrend (High) p-value: 0.137
Pretrend (Low) p-value: 0.455
High vs. Low wald test p-value: 0.309
Event time (k)

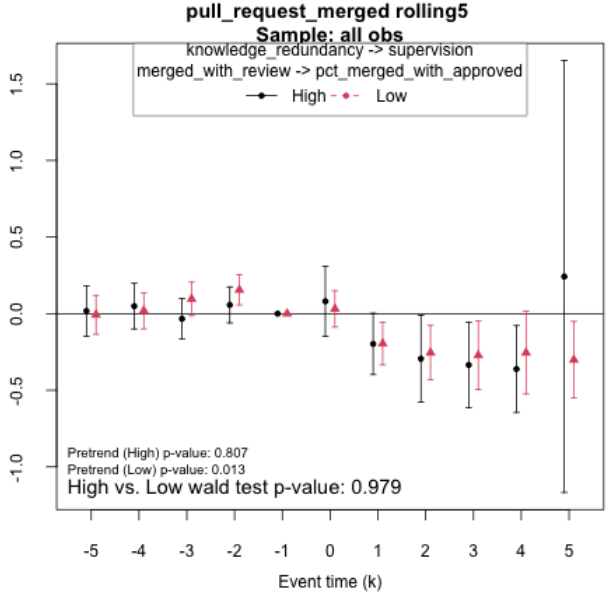

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> supervision
discussion_quantity -> avg_all_disc_count
High
Low
Pretrend (High) p-value: 0.006
Pretrend (Low) p-value: 0.077
High vs. Low wald test p-value: 0.059
Event time (k)

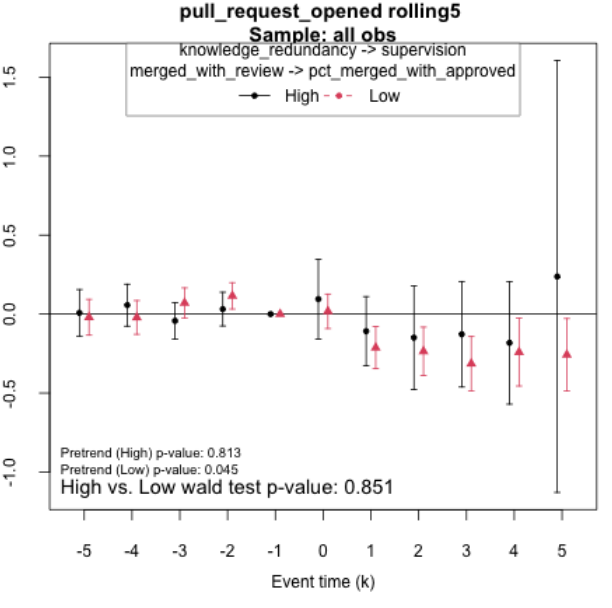

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> supervision
discussion_quantity -> avg_all_disc_count
High
Low
Pretrend (High) p-value: 0.065
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.018
Event time (k)

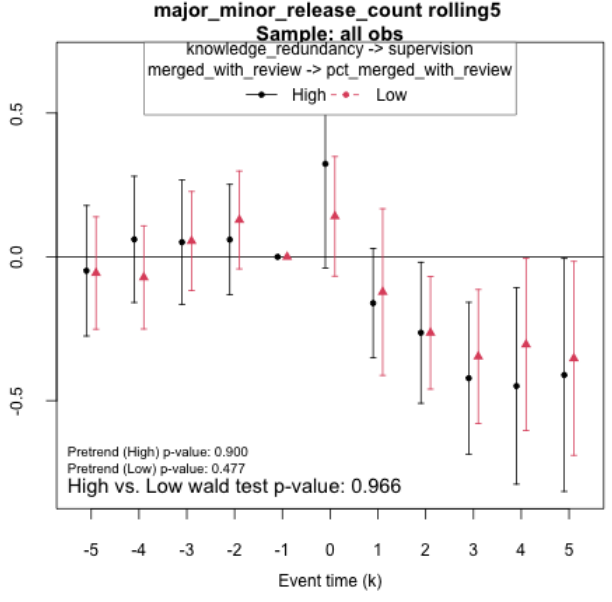

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> supervision
discussion_quantity -> avg_all_disc_count
High
Low
Pretrend (High) p-value: 0.097
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.065
Event time (k)

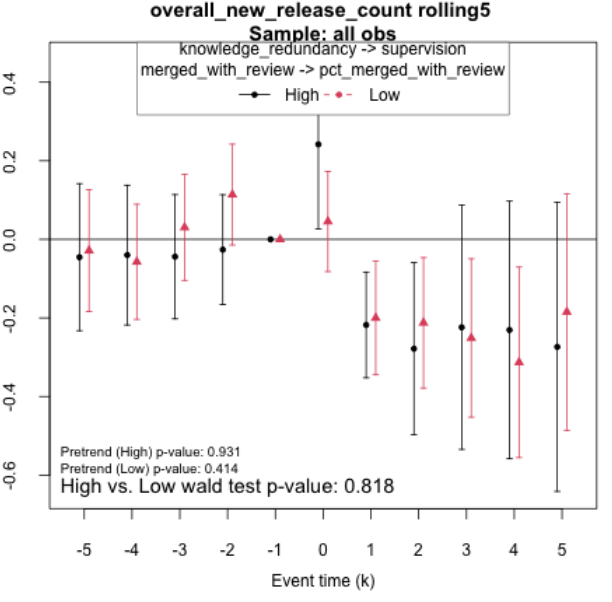

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> supervision
merged_with_review -> pct_merged_with_approved
High
Low
Pretrend (High) p-value: 0.659
Pretrend (Low) p-value: 0.158
High vs. Low wald test p-value: 0.997
Event time (k)

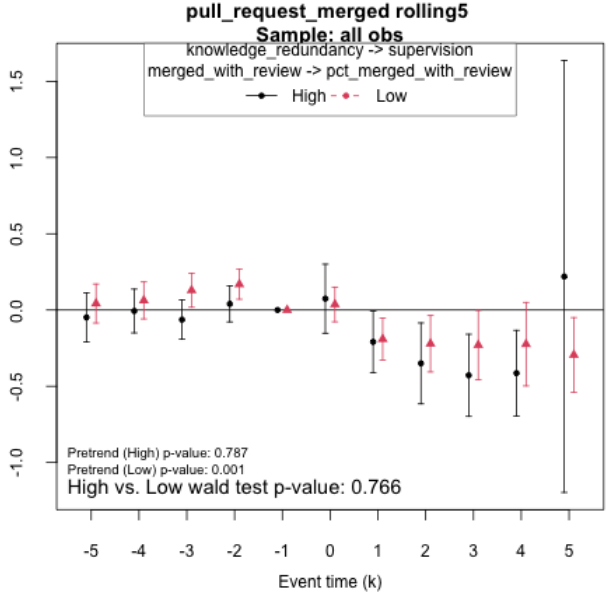

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> supervision
merged_with_review -> pct_merged_with_approved
High
Low
Pretrend (High) p-value: 0.970
Pretrend (Low) p-value: 0.345
High vs. Low wald test p-value: 0.952
Event time (k)

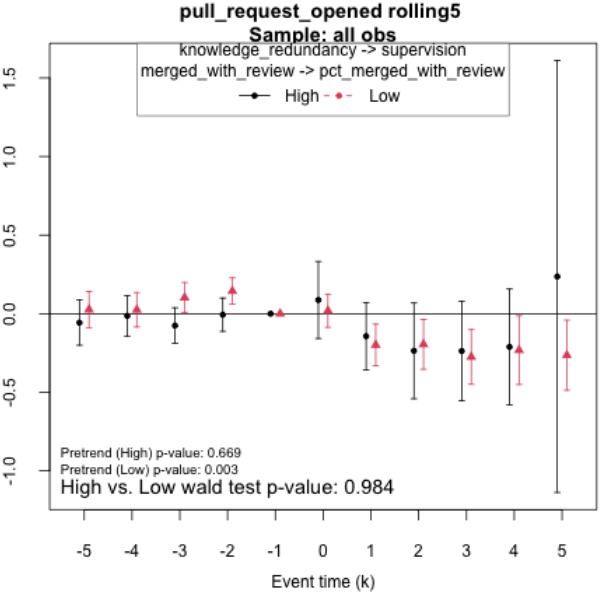

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> supervision
merged_with_review -> pct_merged_with_approved
High
Low
Pretrend (High) p-value: 0.807
Pretrend (Low) p-value: 0.013
High vs. Low wald test p-value: 0.979
Event time (k)

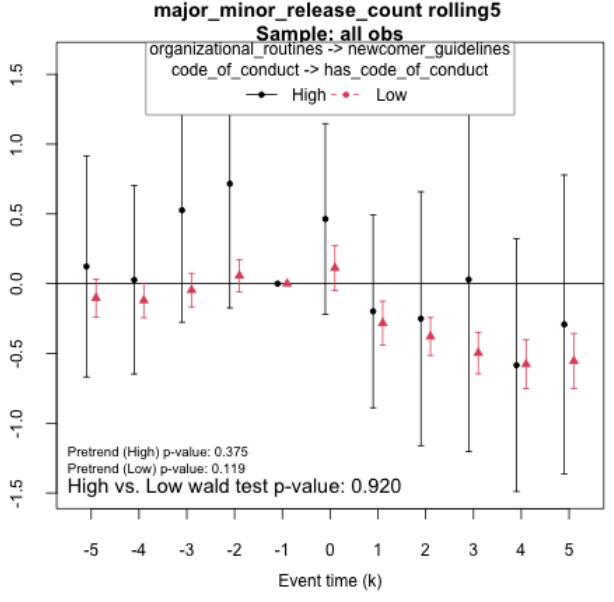

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> supervision
merged_with_review -> pct_merged_with_approved
High
Low
Pretrend (High) p-value: 0.813
Pretrend (Low) p-value: 0.045
High vs. Low wald test p-value: 0.851
Event time (k)

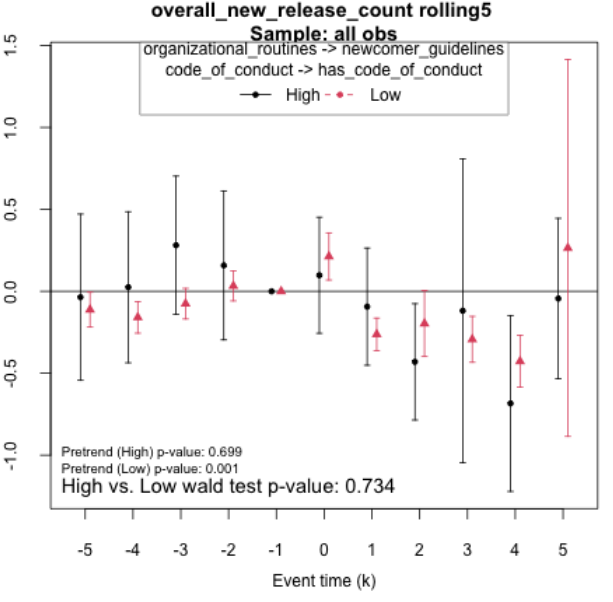

major_minor_release_count rolling5
Sample: all obs
knowledge_redundancy -> supervision
merged_with_review -> pct_merged_with_review
High
Low
Pretrend (High) p-value: 0.900
Pretrend (Low) p-value: 0.477
High vs. Low wald test p-value: 0.966
Event time (k)

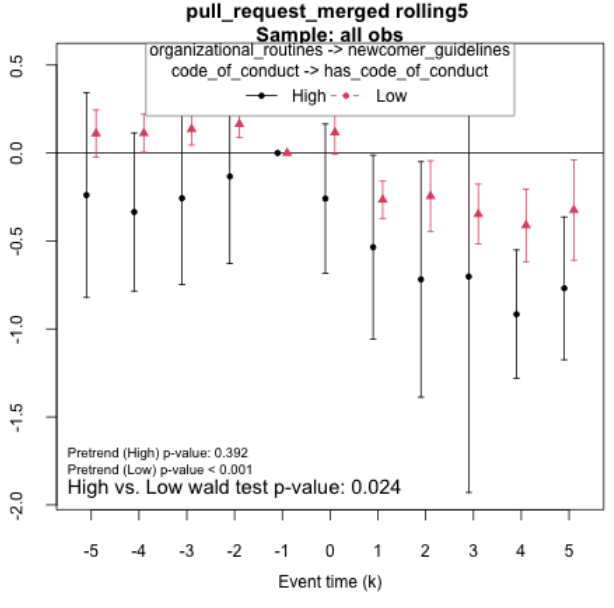

overall_new_release_count rolling5
Sample: all obs
knowledge_redundancy -> supervision
merged_with_review -> pct_merged_with_review
High
Low
Pretrend (High) p-value: 0.931
Pretrend (Low) p-value: 0.414
High vs. Low wald test p-value: 0.818
Event time (k)

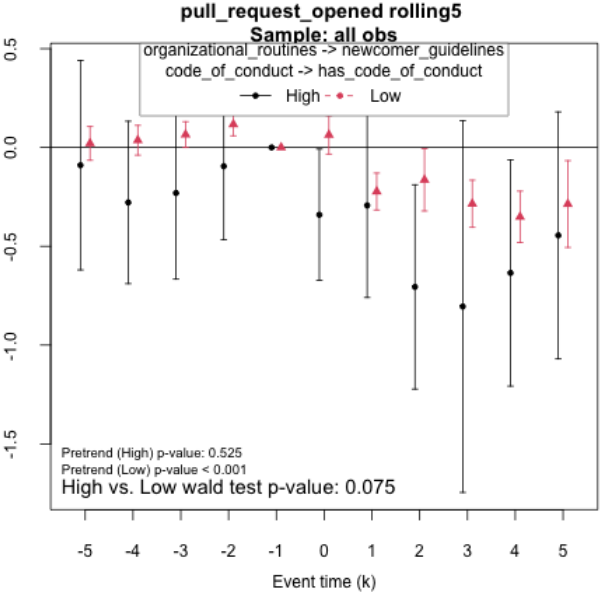

pull_request_merged rolling5
Sample: all obs
knowledge_redundancy -> supervision
merged_with_review -> pct_merged_with_review
High
Low
Pretrend (High) p-value: 0.787
Pretrend (Low) p-value: 0.001
High vs. Low wald test p-value: 0.766
Event time (k)

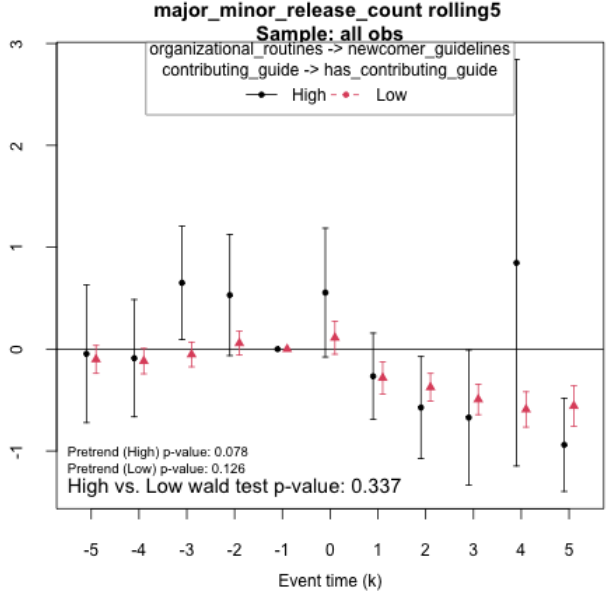

pull_request_opened rolling5
Sample: all obs
knowledge_redundancy -> supervision
merged_with_review -> pct_merged_with_review
High
Low
Pretrend (High) p-value: 0.669
Pretrend (Low) p-value: 0.003
High vs. Low wald test p-value: 0.984
Event time (k)

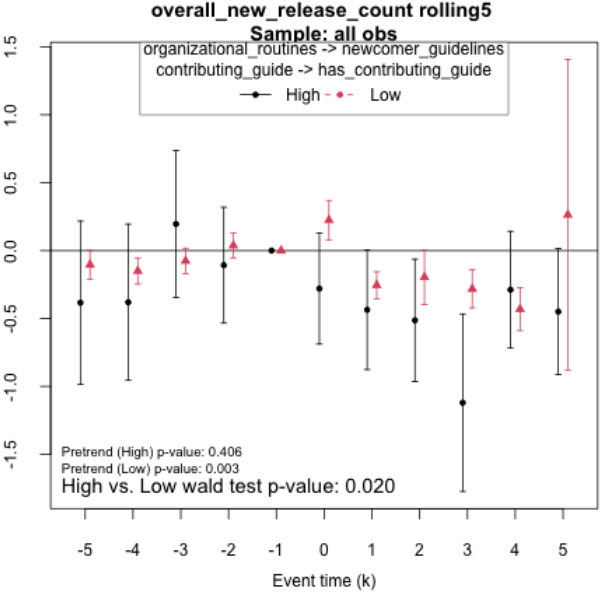

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
code_of_conduct -> has_code_of_conduct
High
Low
Pretrend (High) p-value: 0.375
Pretrend (Low) p-value: 0.119
High vs. Low wald test p-value: 0.920
Event time (k)

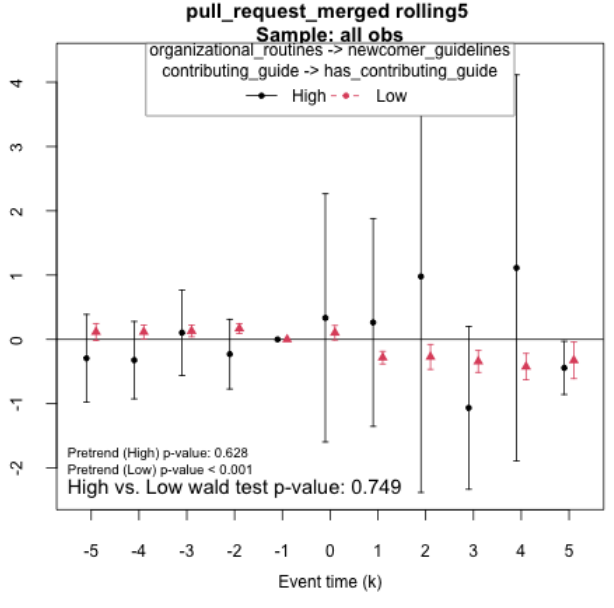

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
code_of_conduct -> has_code_of_conduct
High
Low
Pretrend (High) p-value: 0.699
Pretrend (Low) p-value: 0.001
High vs. Low wald test p-value: 0.734
Event time (k)

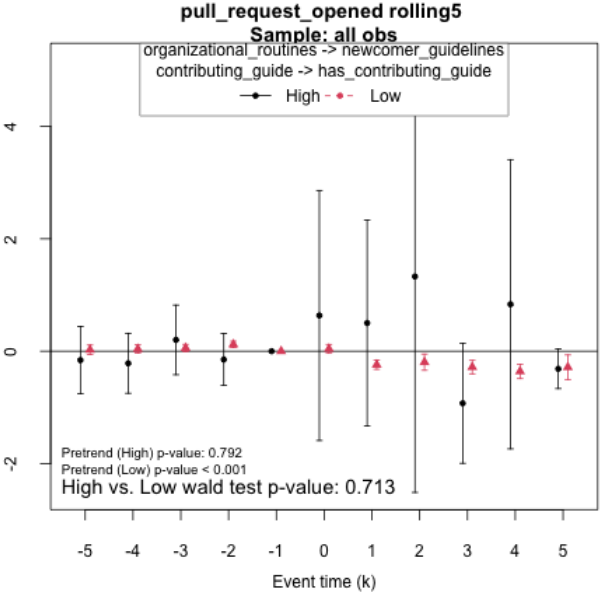

pull_request_merged rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
code_of_conduct -> has_code_of_conduct
High
Low
Pretrend (High) p-value: 0.392
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.024
Event time (k)

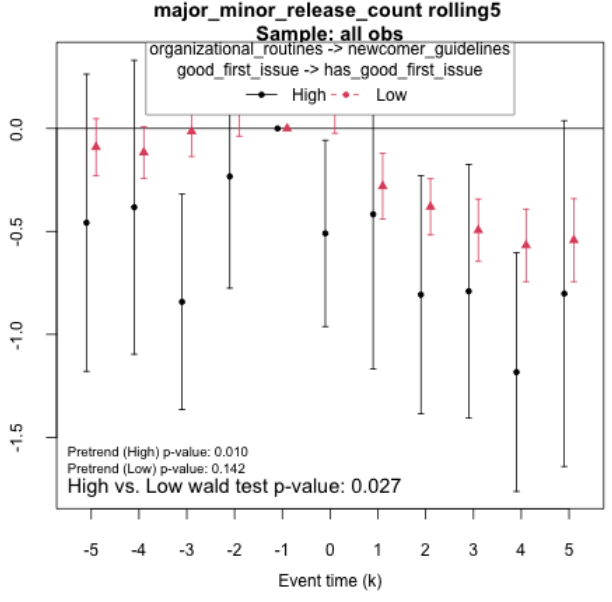

pull_request_opened rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
code_of_conduct -> has_code_of_conduct
High
Low
Pretrend (High) p-value: 0.525
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.075
Event time (k)

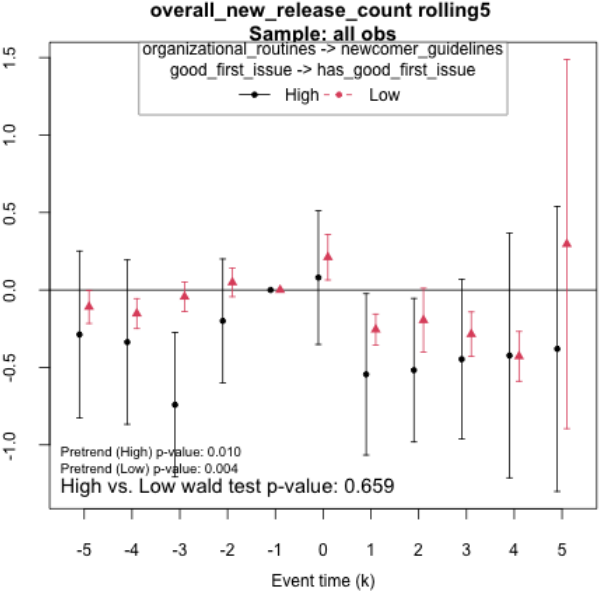

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
contributing_guide -> has_contributing_guide
High
Low
Pretrend (High) p-value: 0.078
Pretrend (Low) p-value: 0.126
High vs. Low wald test p-value: 0.337
Event time (k)

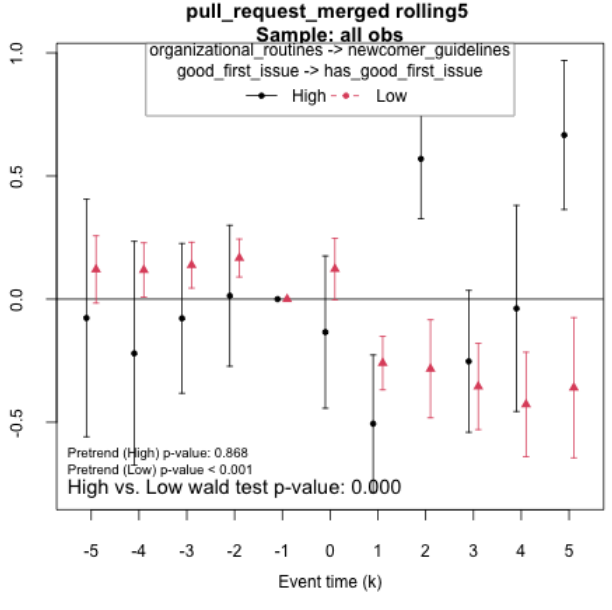

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
contributing_guide -> has_contributing_guide
High
Low
Pretrend (High) p-value: 0.406
Pretrend (Low) p-value: 0.003
High vs. Low wald test p-value: 0.020
Event time (k)

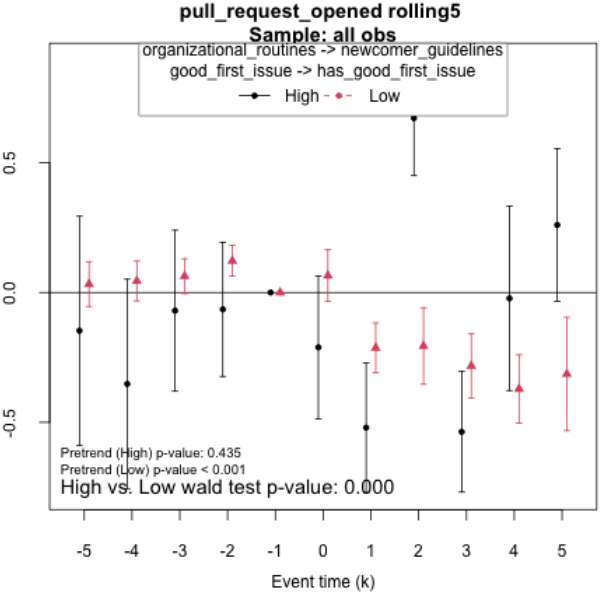

pull_request_merged rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
contributing_guide -> has_contributing_guide
High
Low
Pretrend (High) p-value: 0.628
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.749
Event time (k)

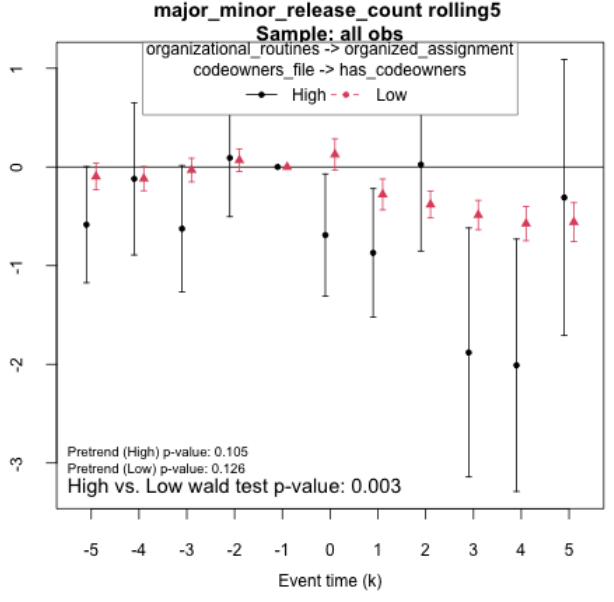

pull_request_opened rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
contributing_guide -> has_contributing_guide
High
Low
Pretrend (High) p-value: 0.792
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.713
Event time (k)

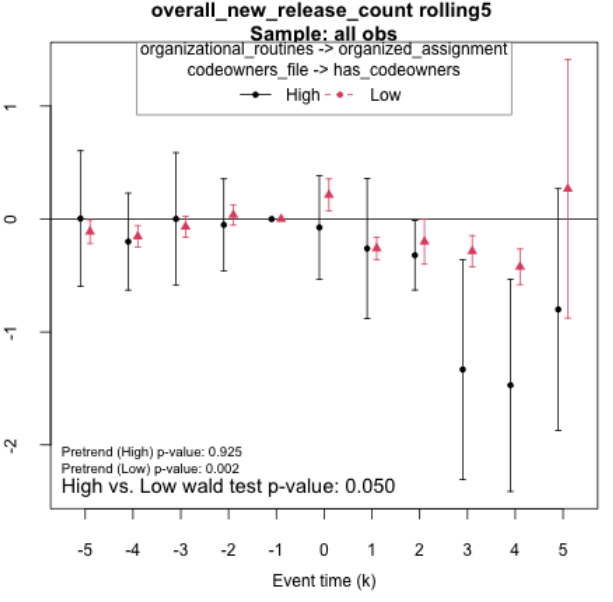

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
good_first_issue -> has_good_first_issue
High
Low
Pretrend (High) p-value: 0.010
Pretrend (Low) p-value: 0.142
High vs. Low wald test p-value: 0.027
Event time (k)

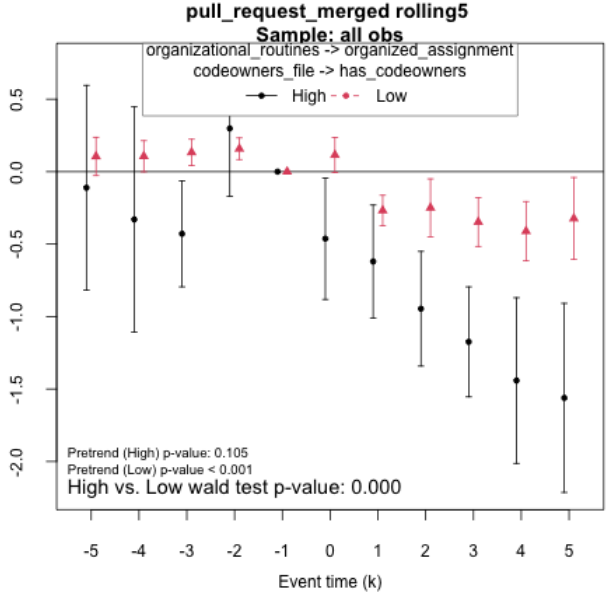

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
good_first_issue -> has_good_first_issue
High
Low
Pretrend (High) p-value: 0.010
Pretrend (Low) p-value: 0.004
High vs. Low wald test p-value: 0.659
Event time (k)

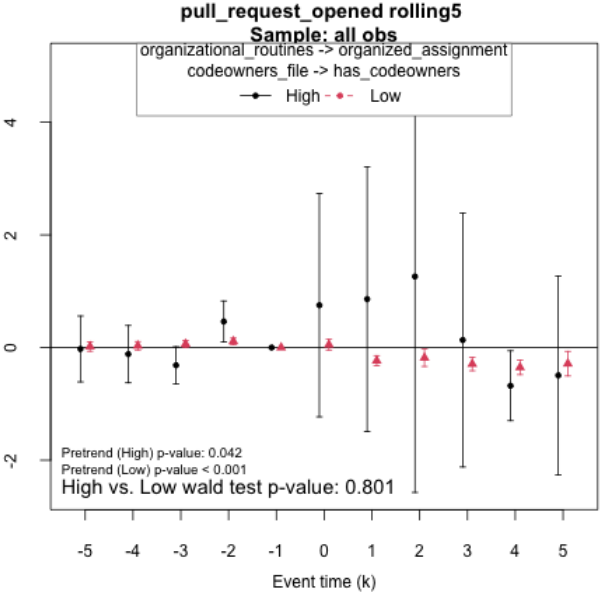

pull_request_merged rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
good_first_issue -> has_good_first_issue
High
Low
Pretrend (High) p-value: 0.868
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.000
Event time (k)

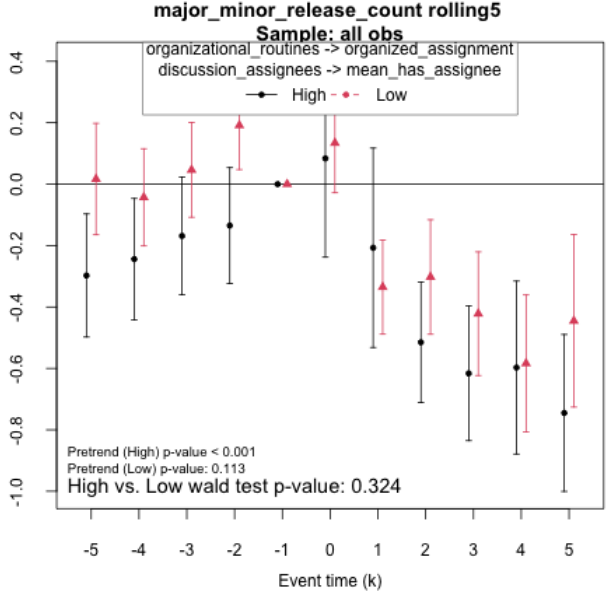

pull_request_opened rolling5
Sample: all obs
organizational_routines -> newcomer_guidelines
good_first_issue -> has_good_first_issue
High
Low
Pretrend (High) p-value: 0.435
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.000
Event time (k)

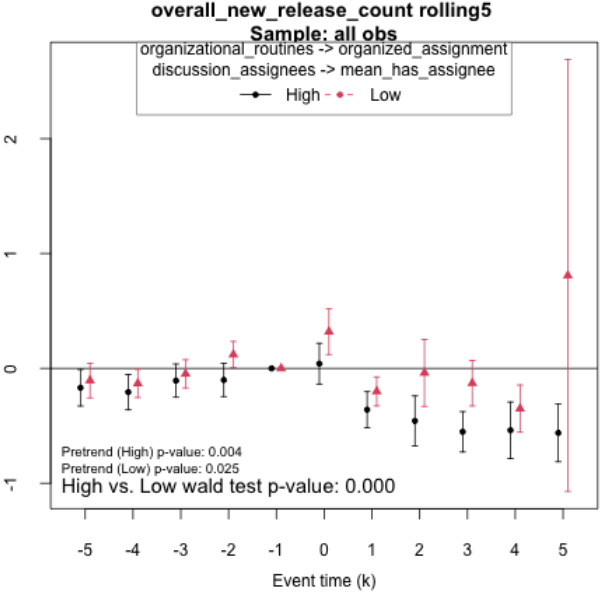

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> organized_assignment
codeowners_file -> has_codeowners
High
Low
Pretrend (High) p-value: 0.105
Pretrend (Low) p-value: 0.126
High vs. Low wald test p-value: 0.003
Event time (k)

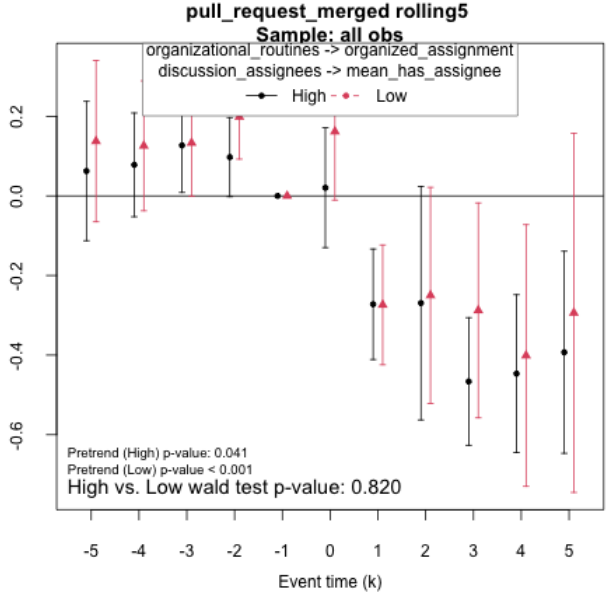

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> organized_assignment
codeowners_file -> has_codeowners
High
Low
Pretrend (High) p-value: 0.925
Pretrend (Low) p-value: 0.002
High vs. Low wald test p-value: 0.050
Event time (k)

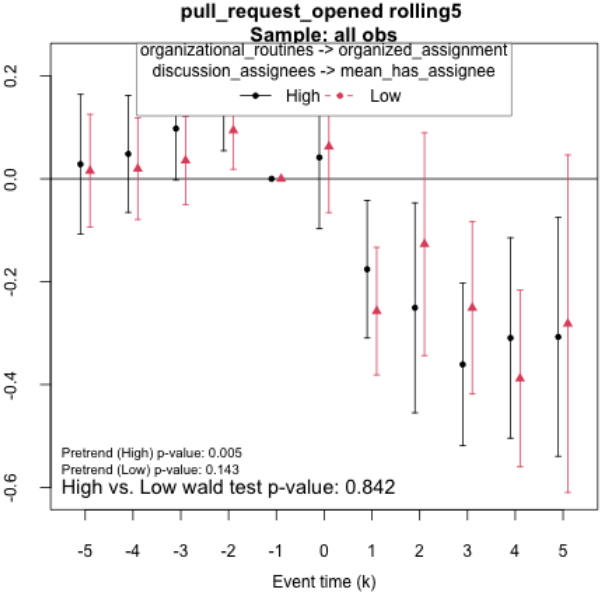

pull_request_merged rolling5
Sample: all obs
organizational_routines -> organized_assignment
codeowners_file -> has_codeowners
High
Low
Pretrend (High) p-value: 0.105
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.000
Event time (k)

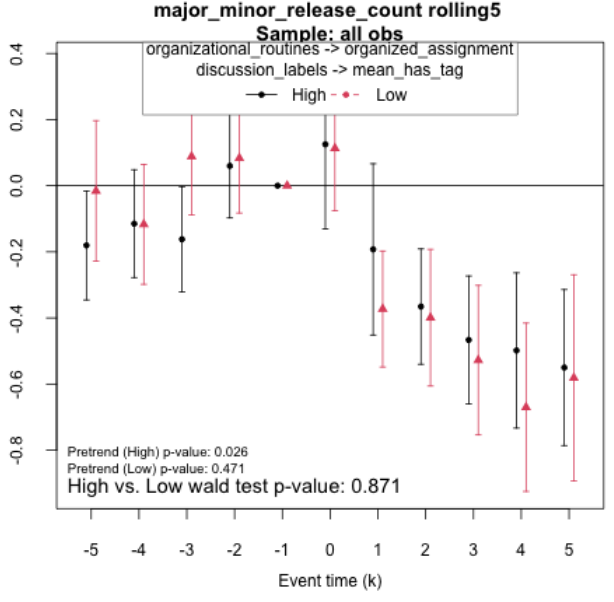

pull_request_opened rolling5
Sample: all obs
organizational_routines -> organized_assignment
codeowners_file -> has_codeowners
High
Low
Pretrend (High) p-value: 0.042
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.801
Event time (k)

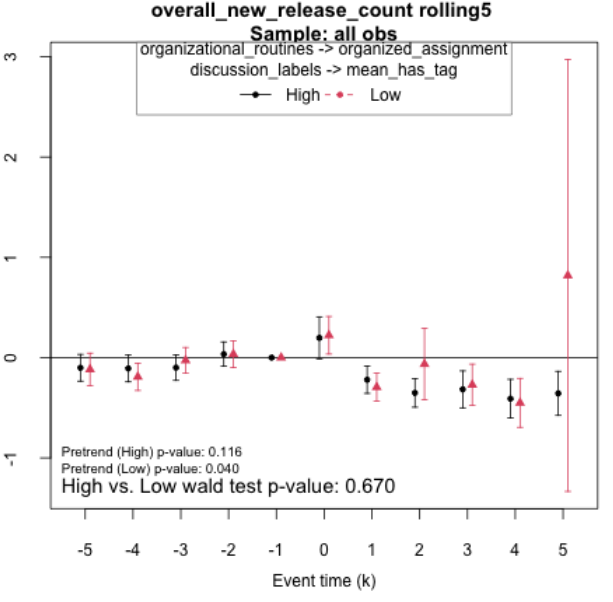

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> organized_assignment
discussion_assignees -> mean_has_assignee
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.113
High vs. Low wald test p-value: 0.324
Event time (k)

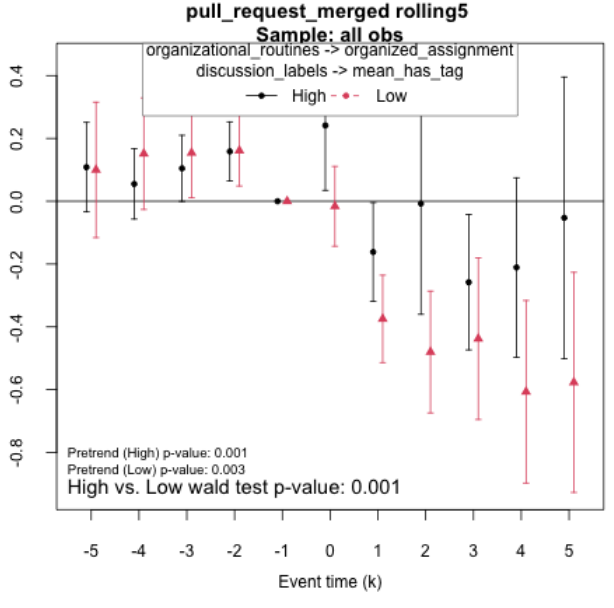

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> organized_assignment
discussion_assignees -> mean_has_assignee
High
Low
Pretrend (High) p-value: 0.004
Pretrend (Low) p-value: 0.025
High vs. Low wald test p-value: 0.000
Event time (k)

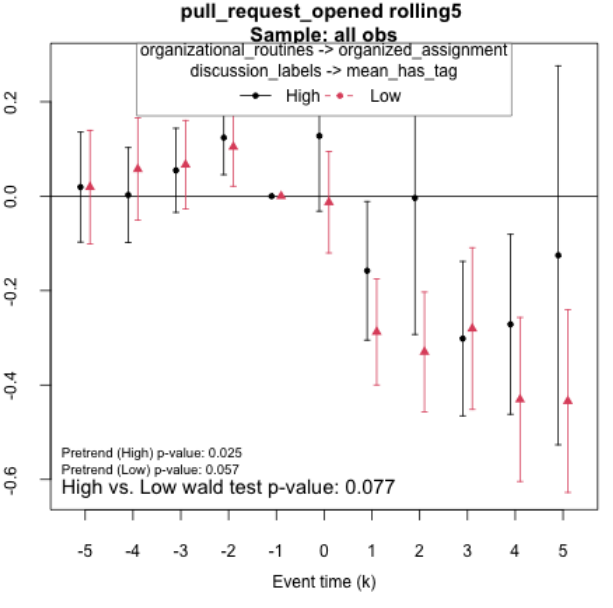

pull_request_merged rolling5
Sample: all obs
organizational_routines -> organized_assignment
discussion_assignees -> mean_has_assignee
High
Low
Pretrend (High) p-value: 0.041
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.820
Event time (k)

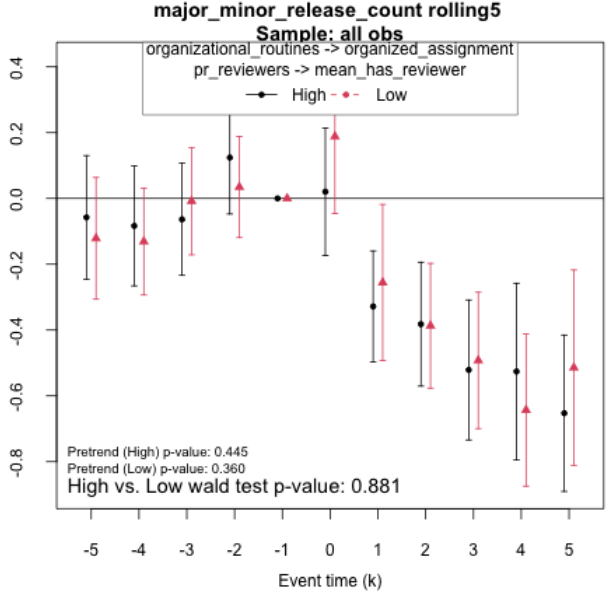

pull_request_opened rolling5
Sample: all obs
organizational_routines -> organized_assignment
discussion_assignees -> mean_has_assignee
High
Low
Pretrend (High) p-value: 0.005
Pretrend (Low) p-value: 0.143
High vs. Low wald test p-value: 0.842
Event time (k)

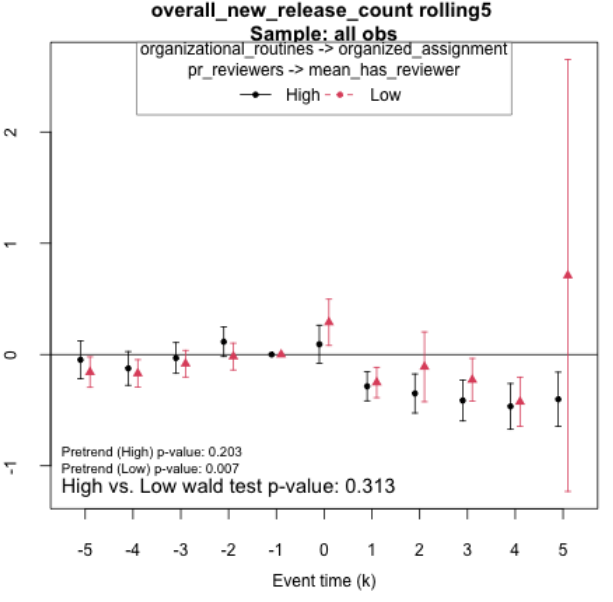

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> organized_assignment
discussion_labels -> mean_has_tag
High
Low
Pretrend (High) p-value: 0.026
Pretrend (Low) p-value: 0.471
High vs. Low wald test p-value: 0.871
Event time (k)

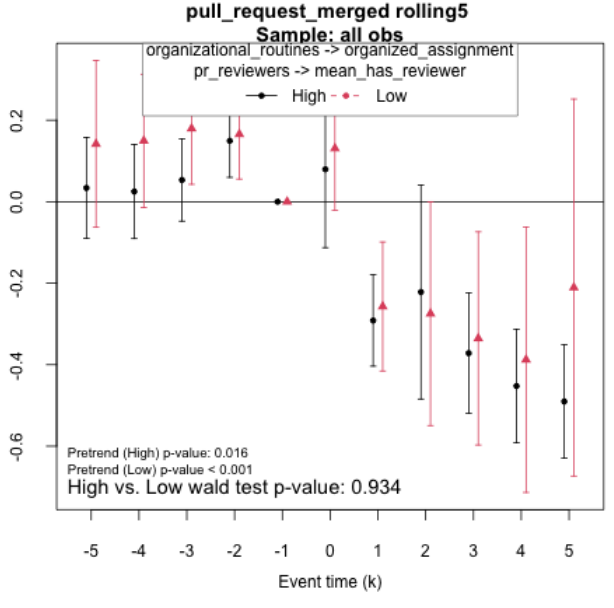

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> organized_assignment
discussion_labels -> mean_has_tag
High
Low
Pretrend (High) p-value: 0.116
Pretrend (Low) p-value: 0.040
High vs. Low wald test p-value: 0.670
Event time (k)

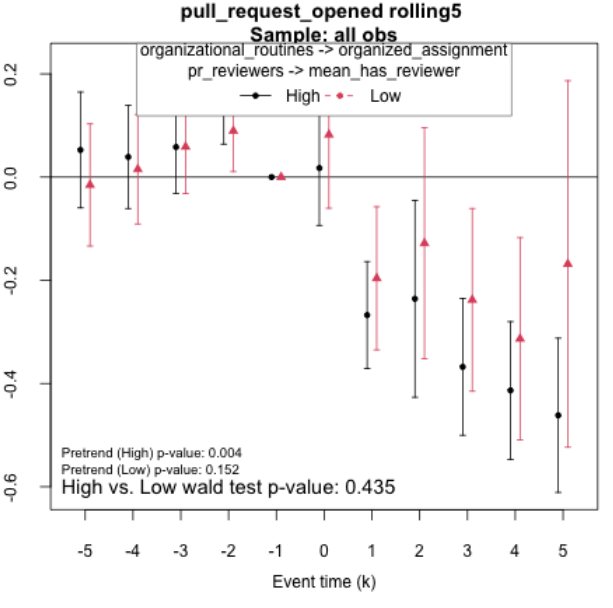

pull_request_merged rolling5
Sample: all obs
organizational_routines -> organized_assignment
discussion_labels -> mean_has_tag
High
Low
Pretrend (High) p-value: 0.001
Pretrend (Low) p-value: 0.003
High vs. Low wald test p-value: 0.001
Event time (k)

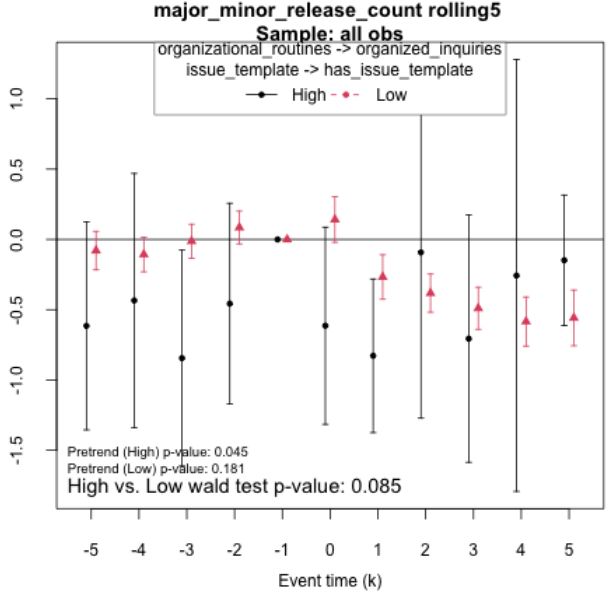

pull_request_opened rolling5
Sample: all obs
organizational_routines -> organized_assignment
discussion_labels -> mean_has_tag
High
Low
Pretrend (High) p-value: 0.025
Pretrend (Low) p-value: 0.057
High vs. Low wald test p-value: 0.077
Event time (k)

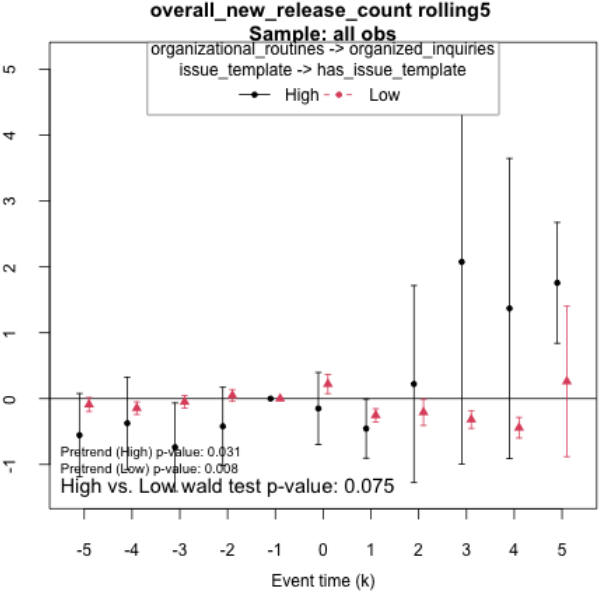

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> organized_assignment
pr_reviewers -> mean_has_reviewer
High
Low
Pretrend (High) p-value: 0.445
Pretrend (Low) p-value: 0.360
High vs. Low wald test p-value: 0.881
Event time (k)

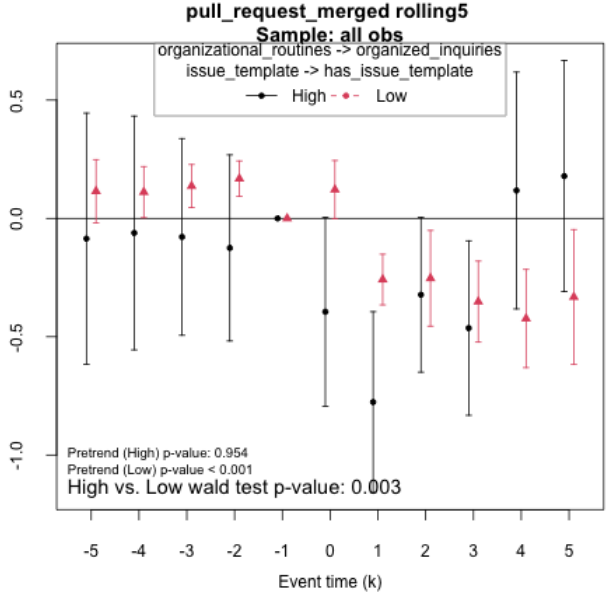

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> organized_assignment
pr_reviewers -> mean_has_reviewer
High
Low
Pretrend (High) p-value: 0.203
Pretrend (Low) p-value: 0.007
High vs. Low wald test p-value: 0.313
Event time (k)

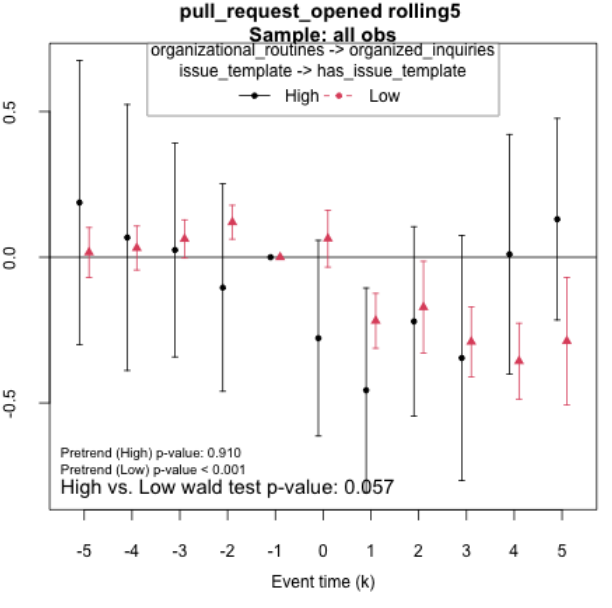

pull_request_merged rolling5
Sample: all obs
organizational_routines -> organized_assignment
pr_reviewers -> mean_has_reviewer
High
Low
Pretrend (High) p-value: 0.016
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.934
Event time (k)

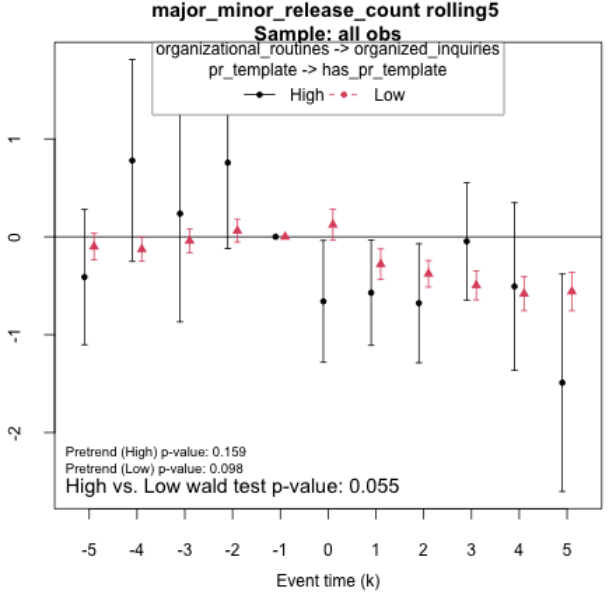

pull_request_opened rolling5
Sample: all obs
organizational_routines -> organized_assignment
pr_reviewers -> mean_has_reviewer
High
Low
Pretrend (High) p-value: 0.004
Pretrend (Low) p-value: 0.152
High vs. Low wald test p-value: 0.435
Event time (k)

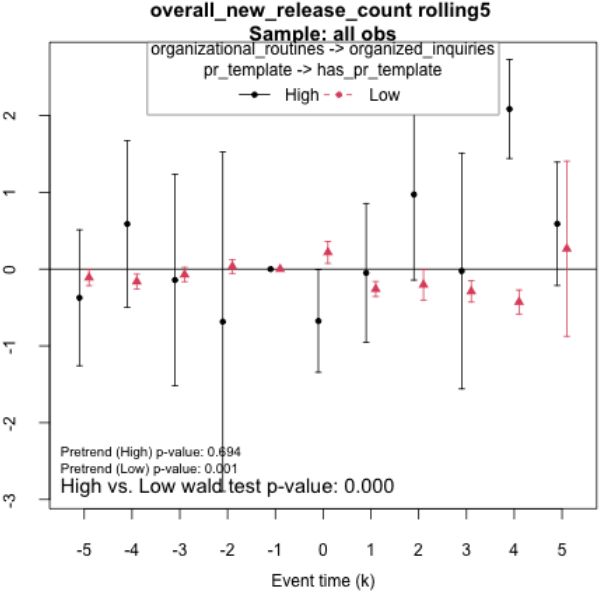

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> organized_inquiries
issue_template -> has_issue_template
High
Low
Pretrend (High) p-value: 0.045
Pretrend (Low) p-value: 0.181
High vs. Low wald test p-value: 0.085
Event time (k)

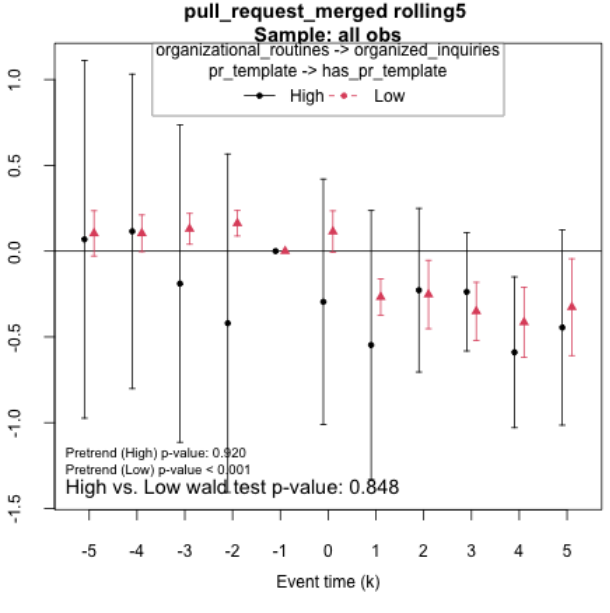

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> organized_inquiries
issue_template -> has_issue_template
High
Low
Pretrend (High) p-value: 0.031
Pretrend (Low) p-value: 0.008
High vs. Low wald test p-value: 0.075
Event time (k)

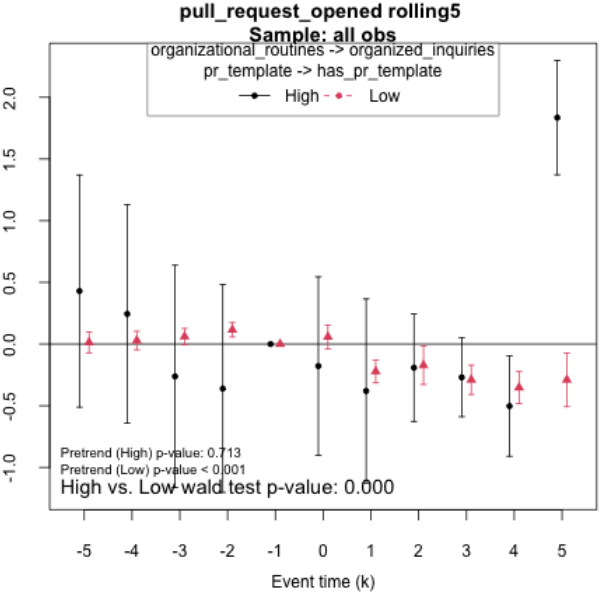

pull_request_merged rolling5
Sample: all obs
organizational_routines -> organized_inquiries
issue_template -> has_issue_template
High
Low
Pretrend (High) p-value: 0.954
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.003
Event time (k)

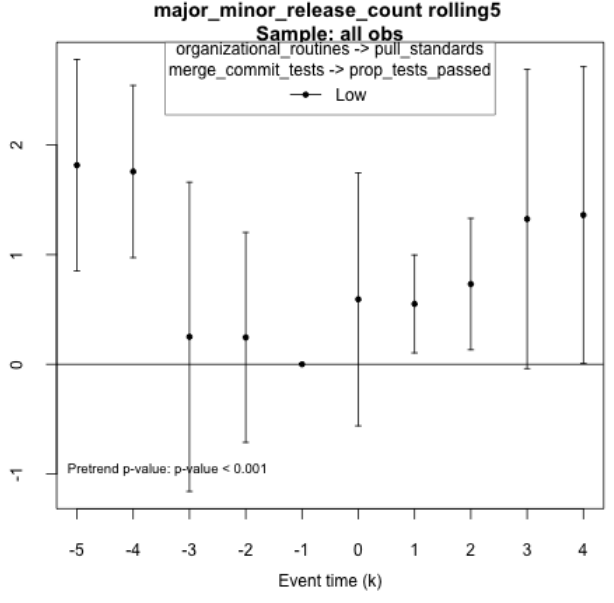

pull_request_opened rolling5
Sample: all obs
organizational_routines -> organized_inquiries
issue_template -> has_issue_template
High
Low
Pretrend (High) p-value: 0.910
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.057
Event time (k)

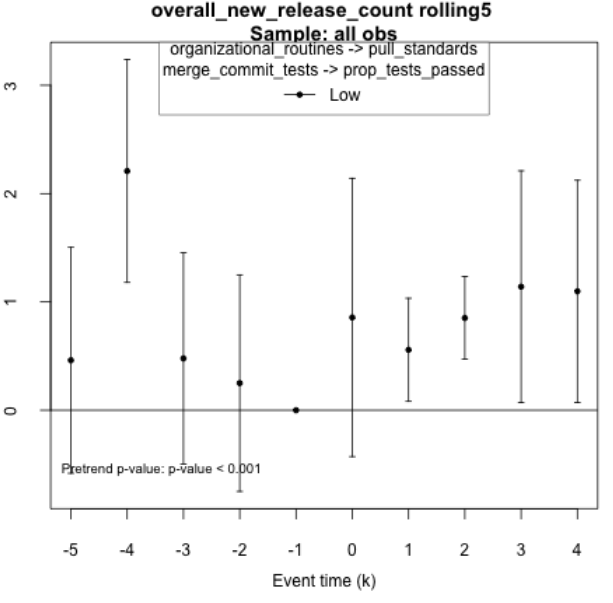

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> organized_inquiries
pr_template -> has_pr_template
High
Low
Pretrend (High) p-value: 0.159
Pretrend (Low) p-value: 0.098
High vs. Low wald test p-value: 0.055
Event time (k)

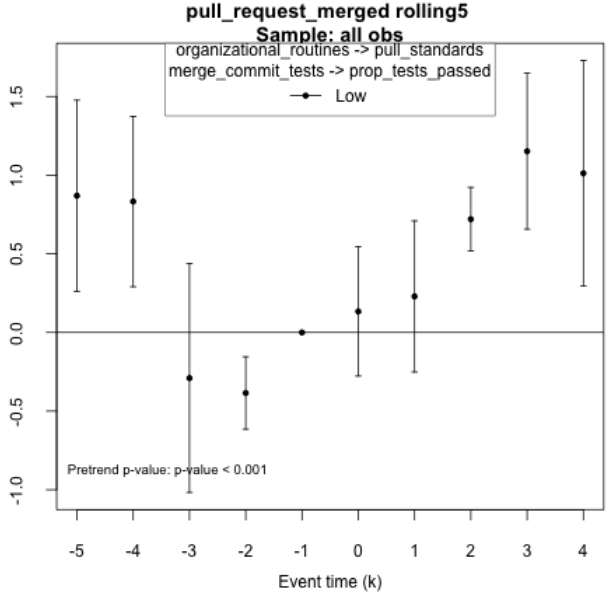

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> organized_inquiries
pr_template -> has_pr_template
High
Low
Pretrend (High) p-value: 0.694
Pretrend (Low) p-value: 0.001
High vs. Low wald test p-value: 0.000
Event time (k)

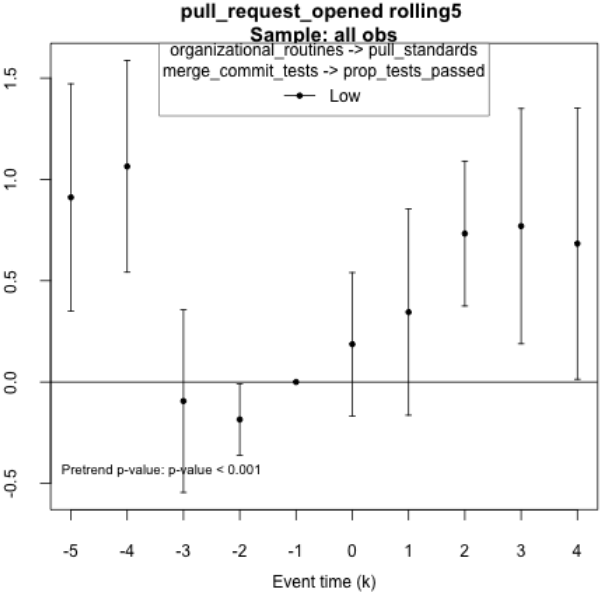

pull_request_merged rolling5
Sample: all obs
organizational_routines -> organized_inquiries
pr_template -> has_pr_template
High
Low
Pretrend (High) p-value: 0.920
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.848
Event time (k)

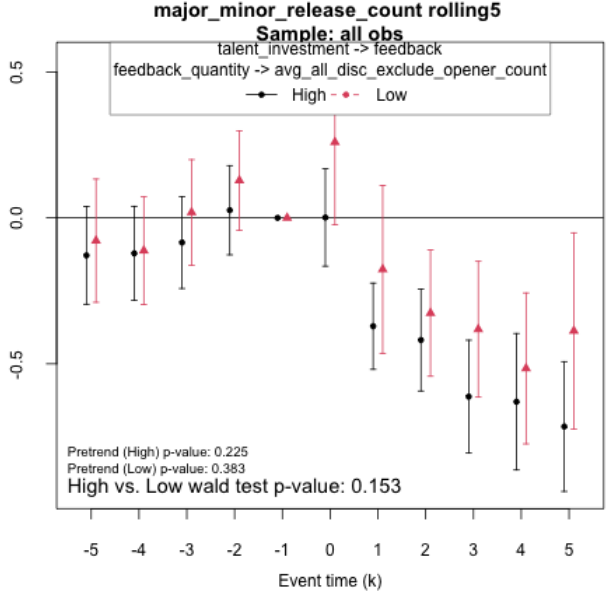

pull_request_opened rolling5
Sample: all obs
organizational_routines -> organized_inquiries
pr_template -> has_pr_template
High
Low
Pretrend (High) p-value: 0.713
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.000
Event time (k)

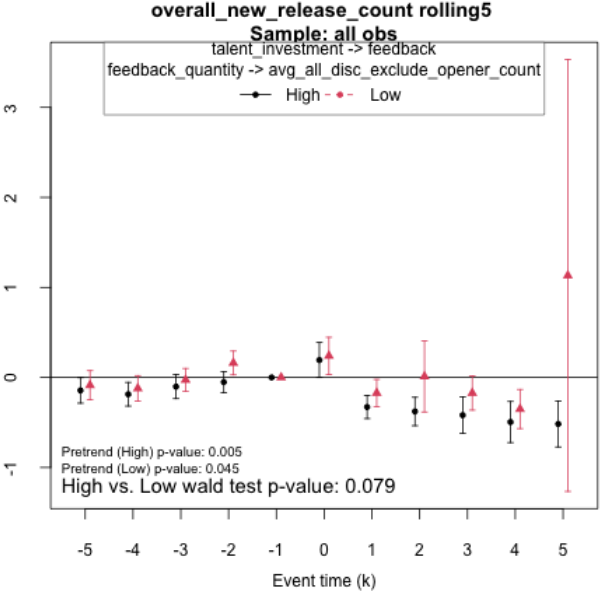

major_minor_release_count rolling5
Sample: all obs
organizational_routines -> pull_standards
merge_commit_tests -> prop_tests_passed
Low
Pretrend p-value: p-value < 0.001
Event time (k)

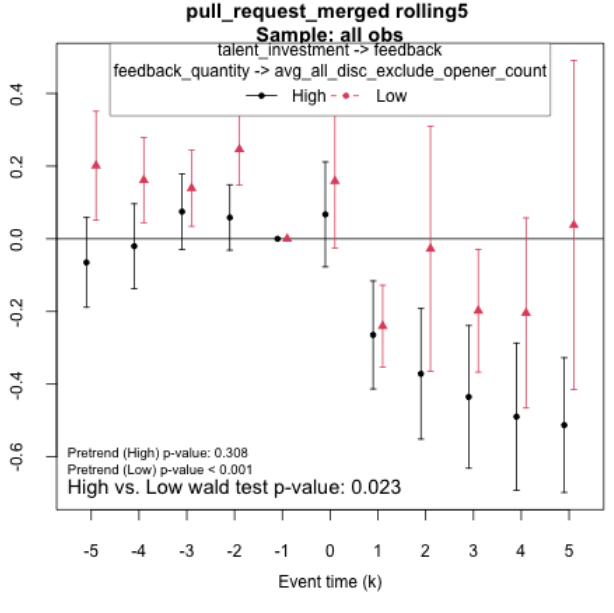

overall_new_release_count rolling5
Sample: all obs
organizational_routines -> pull_standards
merge_commit_tests -> prop_tests_passed
Low
Pretrend p-value: p-value < 0.001
Event time (k)

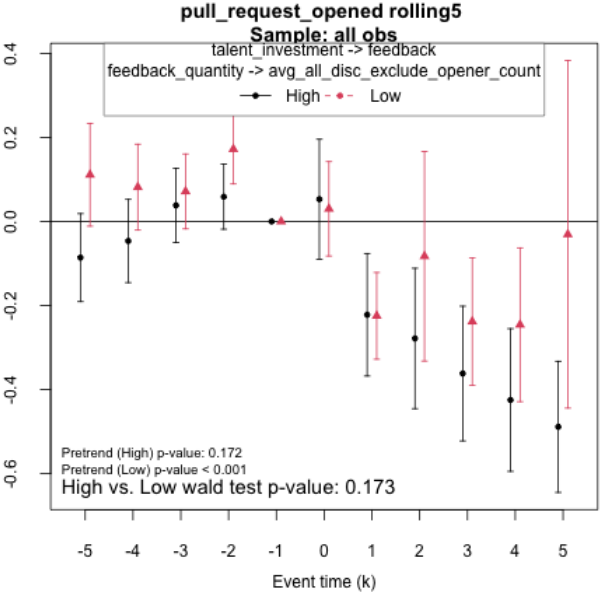

pull_request_merged rolling5
Sample: all obs
organizational_routines -> pull_standards
merge_commit_tests -> prop_tests_passed
Low
Pretrend p-value: p-value < 0.001
Event time (k)

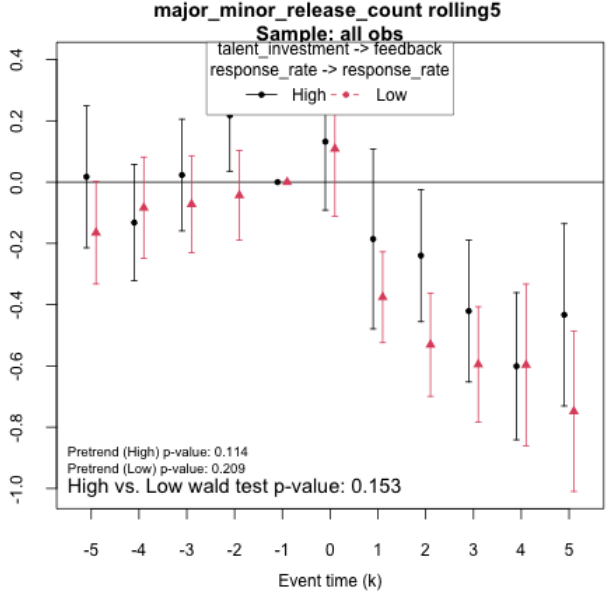

pull_request_opened rolling5
Sample: all obs
organizational_routines -> pull_standards
merge_commit_tests -> prop_tests_passed
Low
Pretrend p-value: p-value < 0.001
Event time (k)

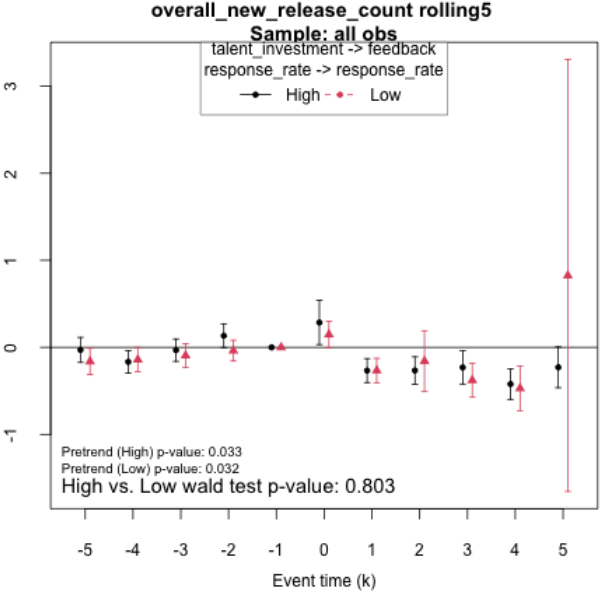

major_minor_release_count rolling5
Sample: all obs
talent_investment -> feedback
feedback_quantity -> avg_all_disc_exclude_opener_count
High
Low
Pretrend (High) p-value: 0.225
Pretrend (Low) p-value: 0.383
High vs. Low wald test p-value: 0.153
Event time (k)

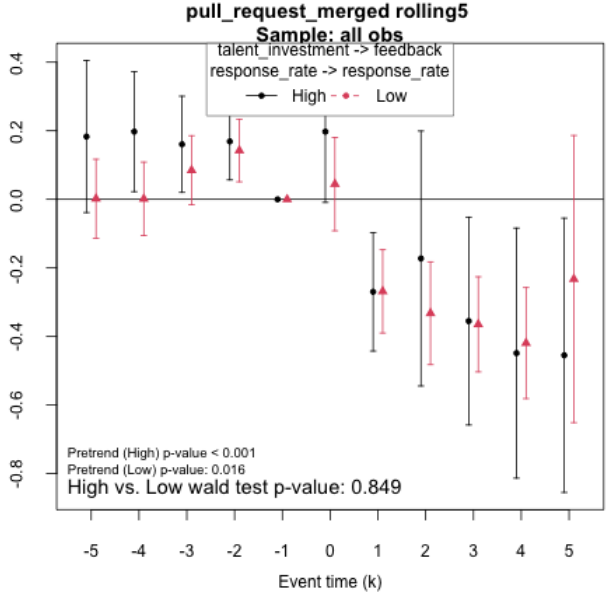

overall_new_release_count rolling5
Sample: all obs
talent_investment -> feedback
feedback_quantity -> avg_all_disc_exclude_opener_count
High
Low
Pretrend (High) p-value: 0.005
Pretrend (Low) p-value: 0.045
High vs. Low wald test p-value: 0.079
Event time (k)

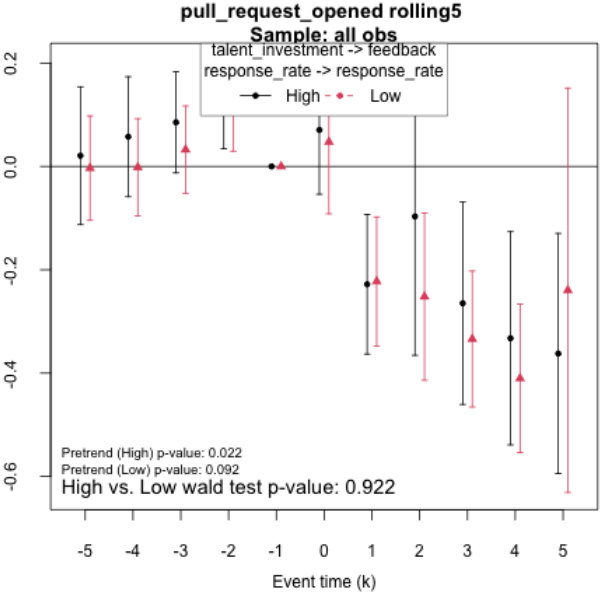

pull_request_merged rolling5
Sample: all obs
talent_investment -> feedback
feedback_quantity -> avg_all_disc_exclude_opener_count
High
Low
Pretrend (High) p-value: 0.308
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.023
Event time (k)

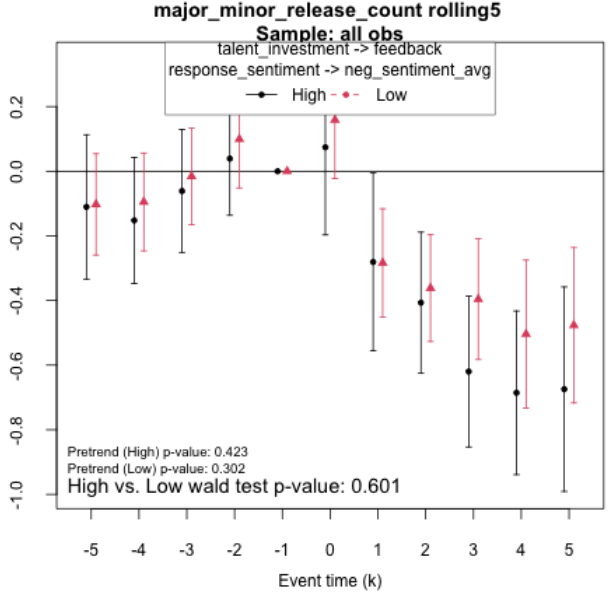

pull_request_opened rolling5
Sample: all obs
talent_investment -> feedback
feedback_quantity -> avg_all_disc_exclude_opener_count
High
Low
Pretrend (High) p-value: 0.172
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.173
Event time (k)

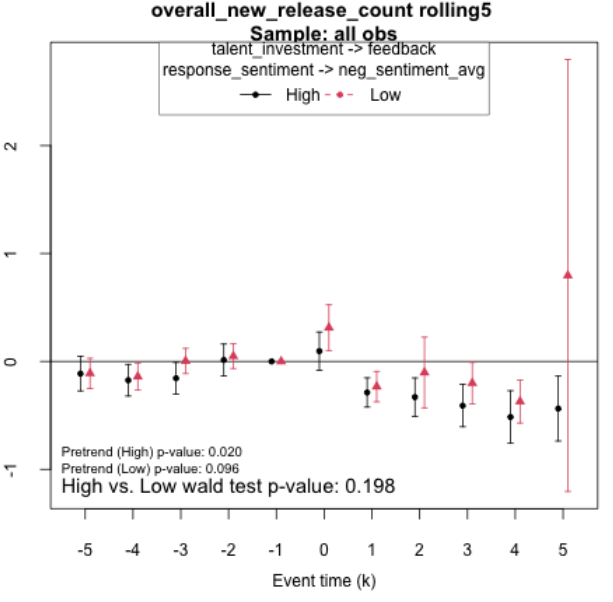

major_minor_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_rate -> response_rate
High
Low
Pretrend (High) p-value: 0.114
Pretrend (Low) p-value: 0.209
High vs. Low wald test p-value: 0.153
Event time (k)

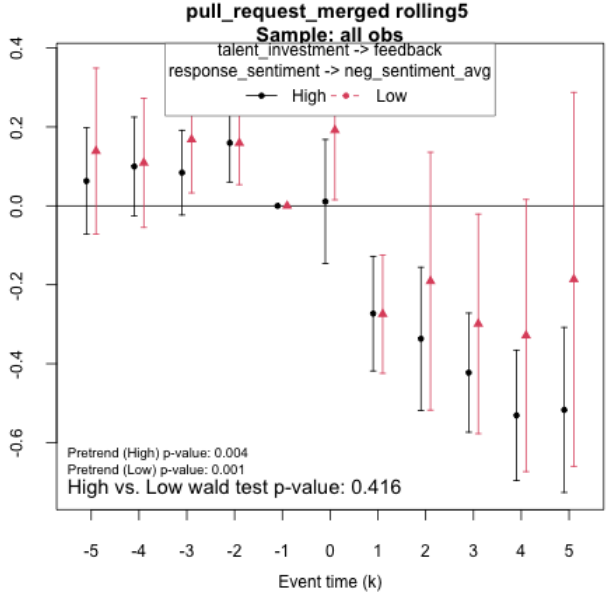

overall_new_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_rate -> response_rate
High
Low
Pretrend (High) p-value: 0.033
Pretrend (Low) p-value: 0.032
High vs. Low wald test p-value: 0.803
Event time (k)

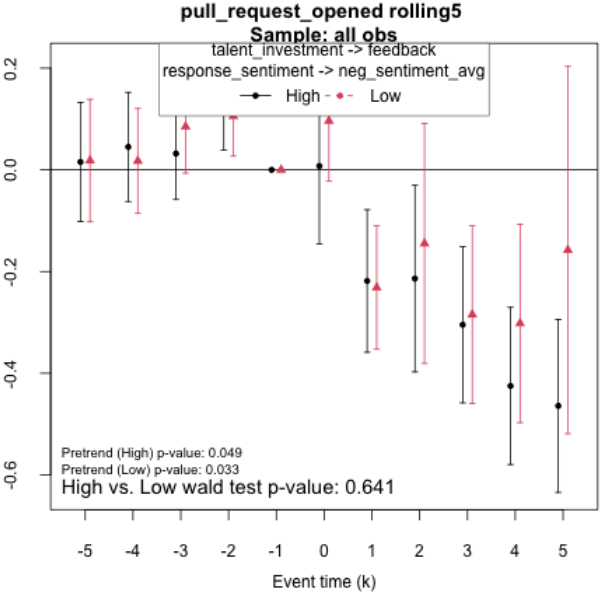

pull_request_merged rolling5
Sample: all obs
talent_investment -> feedback
response_rate -> response_rate
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.016
High vs. Low wald test p-value: 0.849
Event time (k)

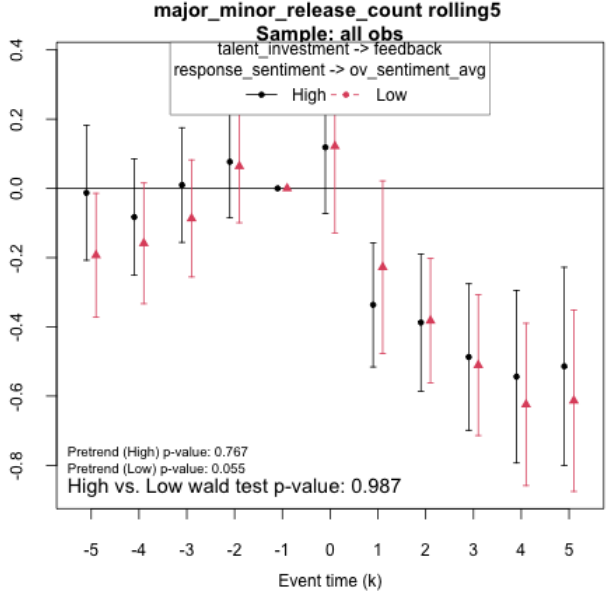

pull_request_opened rolling5
Sample: all obs
talent_investment -> feedback
response_rate -> response_rate
High
Low
Pretrend (High) p-value: 0.022
Pretrend (Low) p-value: 0.092
High vs. Low wald test p-value: 0.922
Event time (k)

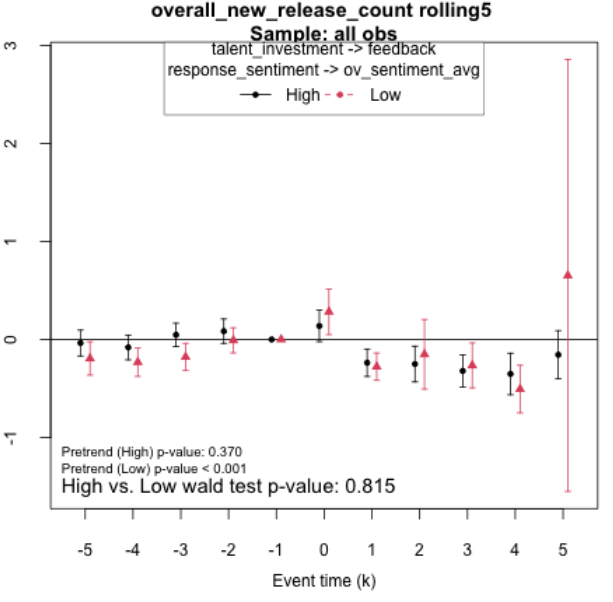

major_minor_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> neg_sentiment_avg
High
Low
Pretrend (High) p-value: 0.423
Pretrend (Low) p-value: 0.302
High vs. Low wald test p-value: 0.601
Event time (k)

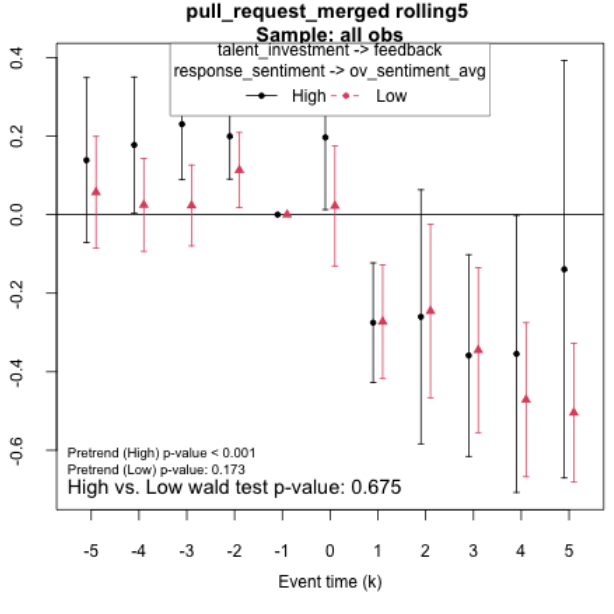

overall_new_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> neg_sentiment_avg
High
Low
Pretrend (High) p-value: 0.020
Pretrend (Low) p-value: 0.096
High vs. Low wald test p-value: 0.198
Event time (k)

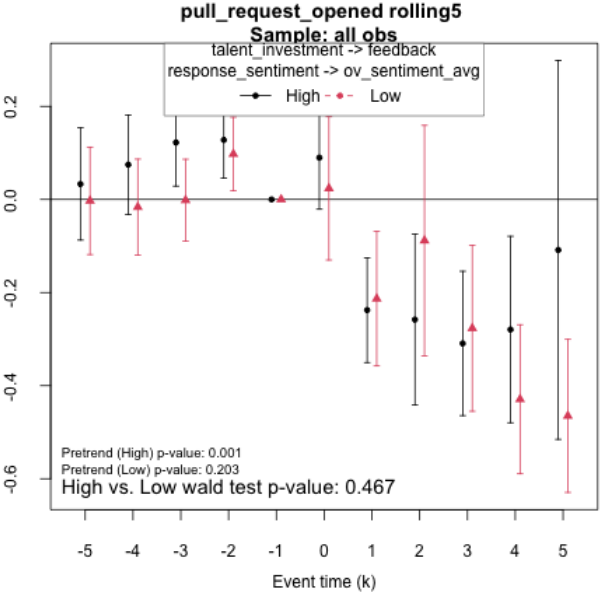

pull_request_merged rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> neg_sentiment_avg
High
Low
Pretrend (High) p-value: 0.004
Pretrend (Low) p-value: 0.001
High vs. Low wald test p-value: 0.416
Event time (k)

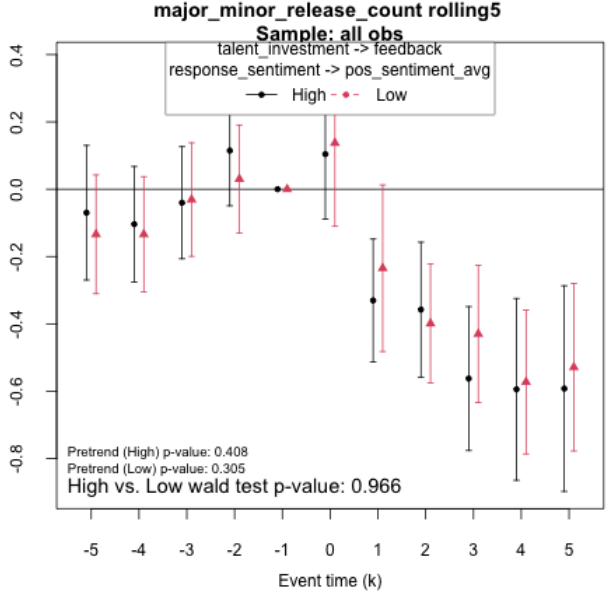

pull_request_opened rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> neg_sentiment_avg
High
Low
Pretrend (High) p-value: 0.049
Pretrend (Low) p-value: 0.033
High vs. Low wald test p-value: 0.641
Event time (k)

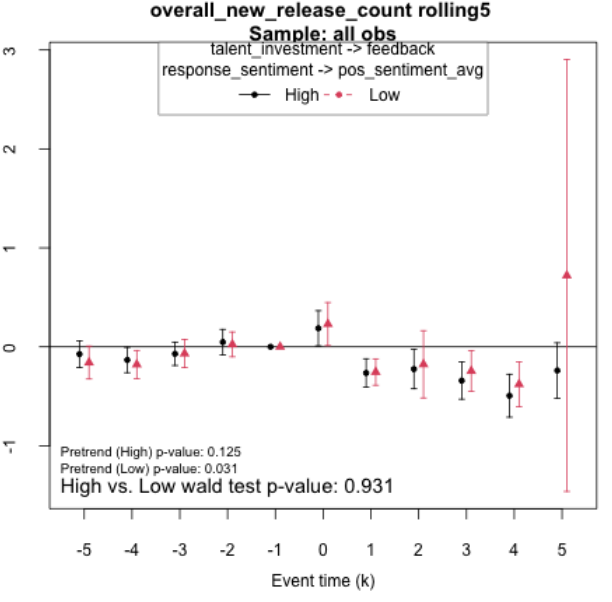

major_minor_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> ov_sentiment_avg
High
Low
Pretrend (High) p-value: 0.767
Pretrend (Low) p-value: 0.055
High vs. Low wald test p-value: 0.987
Event time (k)

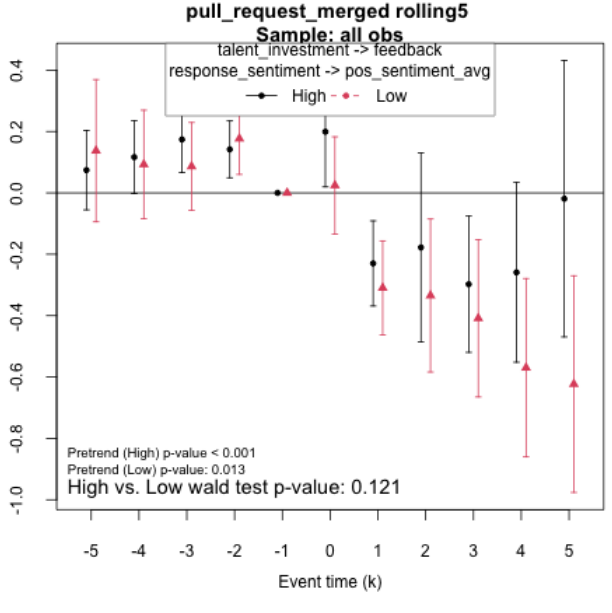

overall_new_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> ov_sentiment_avg
High
Low
Pretrend (High) p-value: 0.370
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.815
Event time (k)

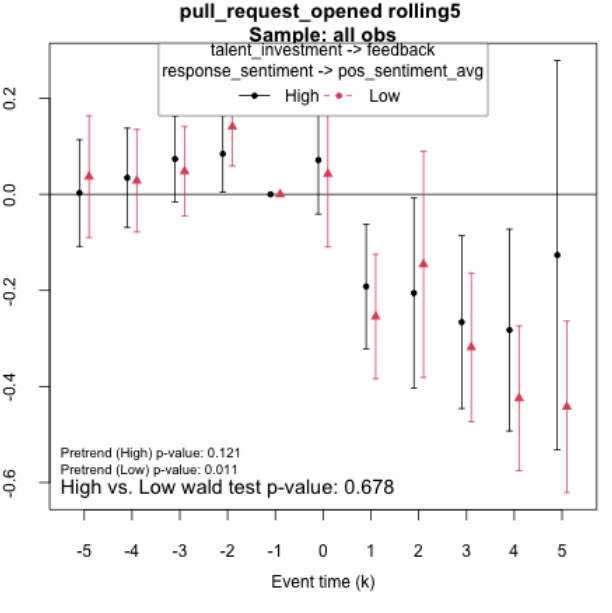

pull_request_merged rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> ov_sentiment_avg
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.173
High vs. Low wald test p-value: 0.675
Event time (k)

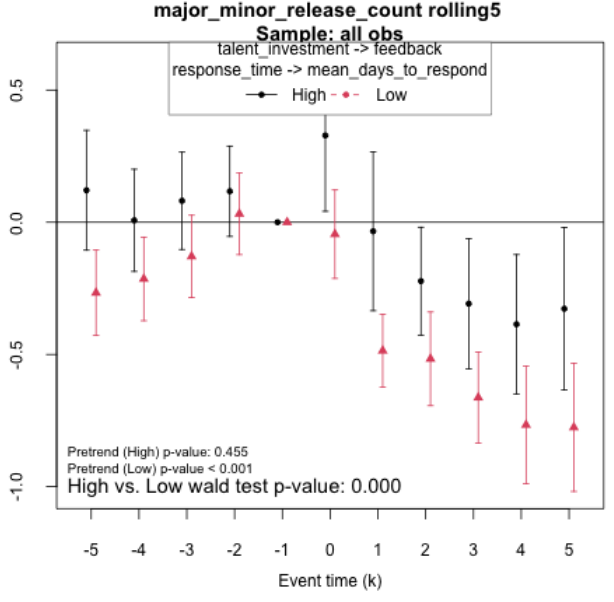

pull_request_opened rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> ov_sentiment_avg
High
Low
Pretrend (High) p-value: 0.001
Pretrend (Low) p-value: 0.203
High vs. Low wald test p-value: 0.467
Event time (k)

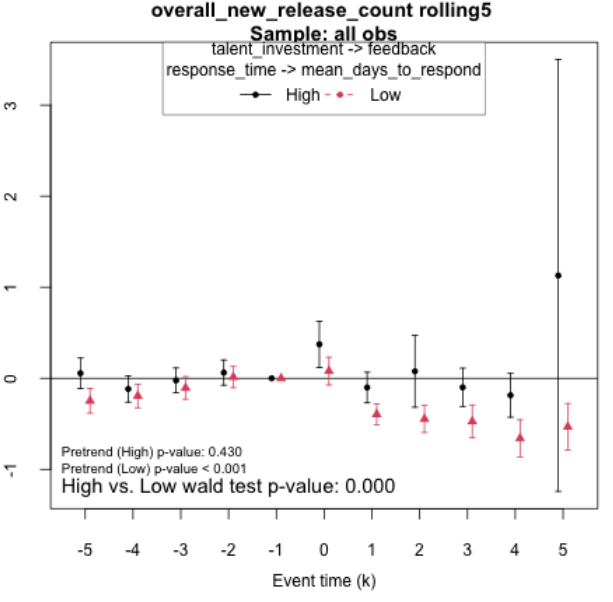

major_minor_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> pos_sentiment_avg
High
Low
Pretrend (High) p-value: 0.408
Pretrend (Low) p-value: 0.305
High vs. Low wald test p-value: 0.966
Event time (k)

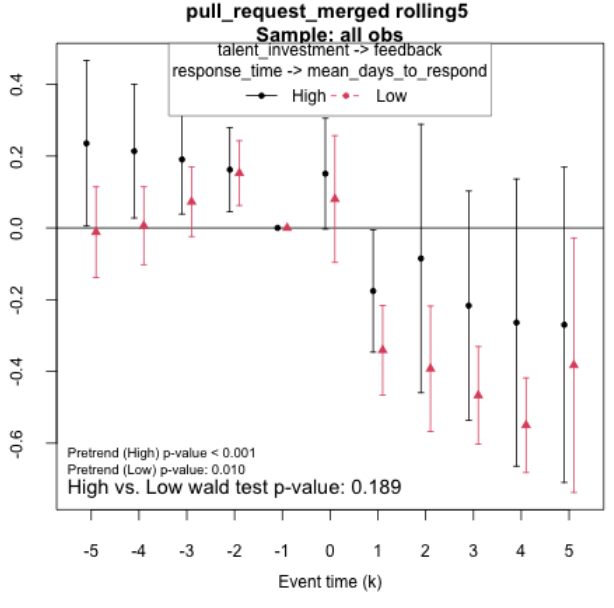

overall_new_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> pos_sentiment_avg
High
Low
Pretrend (High) p-value: 0.125
Pretrend (Low) p-value: 0.031
High vs. Low wald test p-value: 0.931
Event time (k)

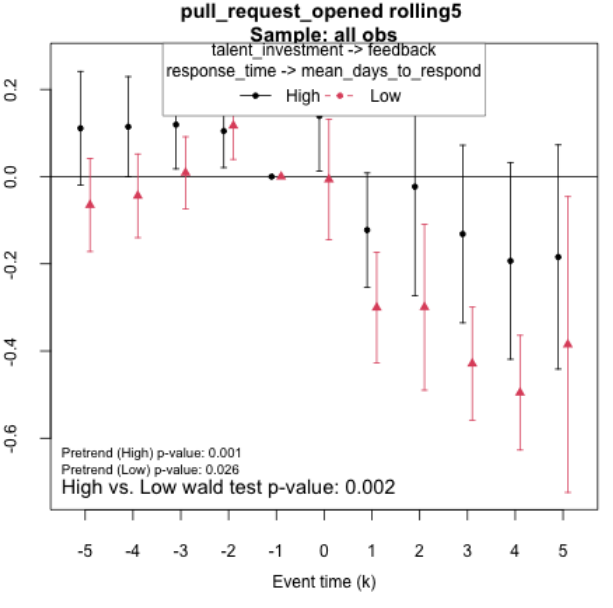

pull_request_merged rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> pos_sentiment_avg
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.013
High vs. Low wald test p-value: 0.121
Event time (k)

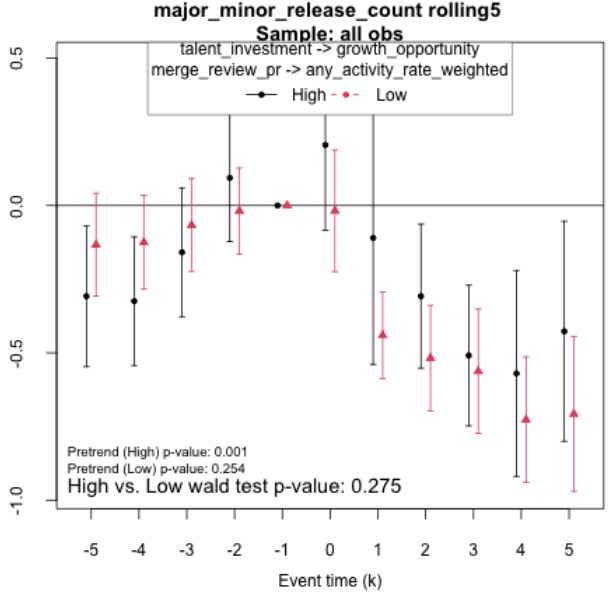

pull_request_opened rolling5
Sample: all obs
talent_investment -> feedback
response_sentiment -> pos_sentiment_avg
High
Low
Pretrend (High) p-value: 0.121
Pretrend (Low) p-value: 0.011
High vs. Low wald test p-value: 0.678
Event time (k)

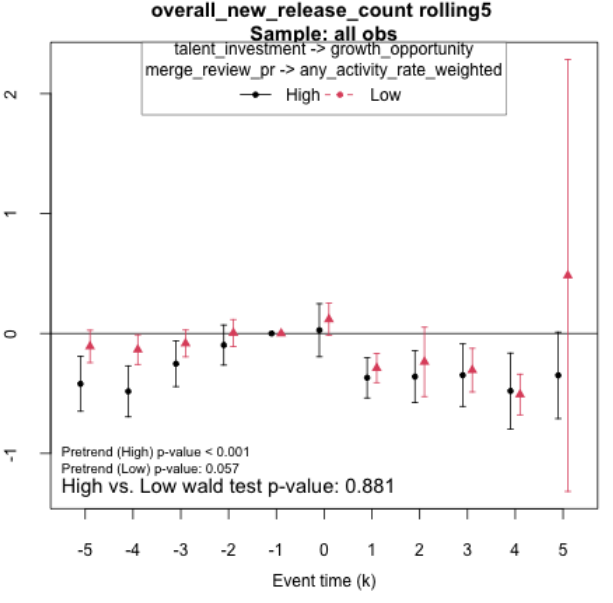

major_minor_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_time -> mean_days_to_respond
High
Low
Pretrend (High) p-value: 0.455
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.000
Event time (k)

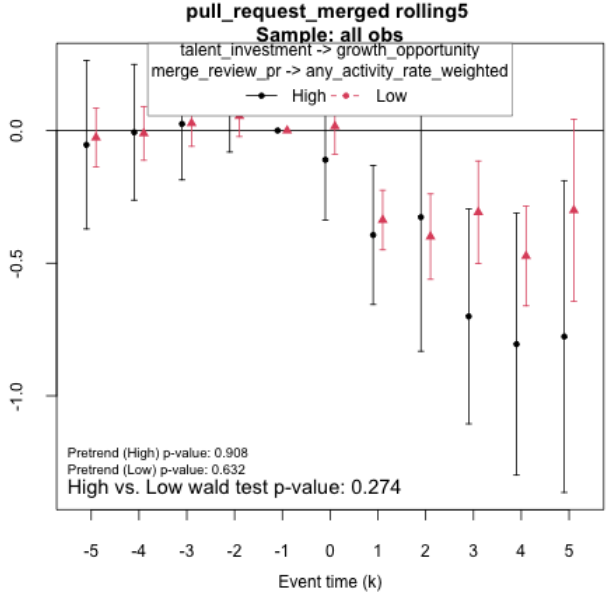

overall_new_release_count rolling5
Sample: all obs
talent_investment -> feedback
response_time -> mean_days_to_respond
High
Low
Pretrend (High) p-value: 0.430
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.000
Event time (k)

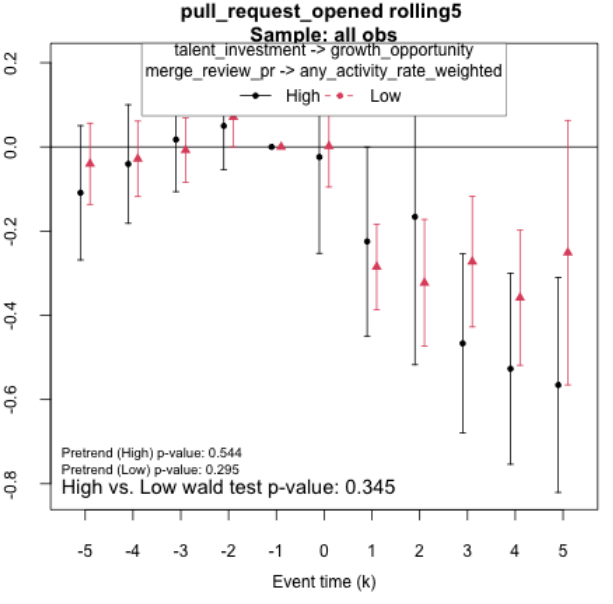

pull_request_merged rolling5
Sample: all obs
talent_investment -> feedback
response_time -> mean_days_to_respond
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.010
High vs. Low wald test p-value: 0.189
Event time (k)

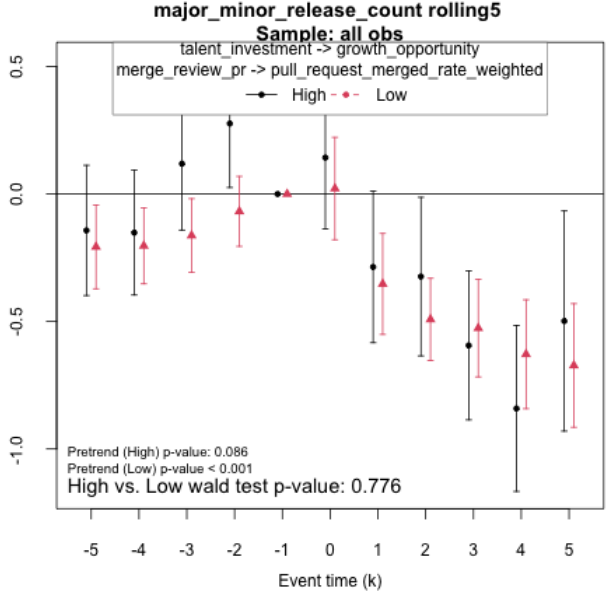

pull_request_opened rolling5
Sample: all obs
talent_investment -> feedback
response_time -> mean_days_to_respond
High
Low
Pretrend (High) p-value: 0.001
Pretrend (Low) p-value: 0.026
High vs. Low wald test p-value: 0.002
Event time (k)

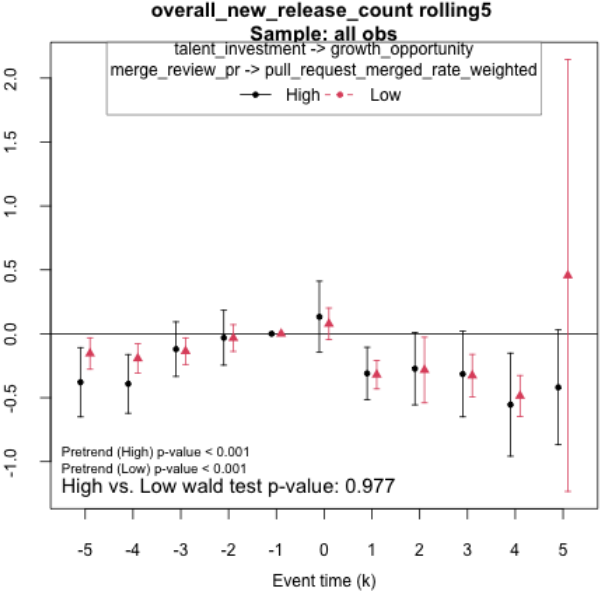

major_minor_release_count rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> any_activity_rate_weighted
High
Low
Pretrend (High) p-value: 0.001
Pretrend (Low) p-value: 0.254
High vs. Low wald test p-value: 0.275
Event time (k)

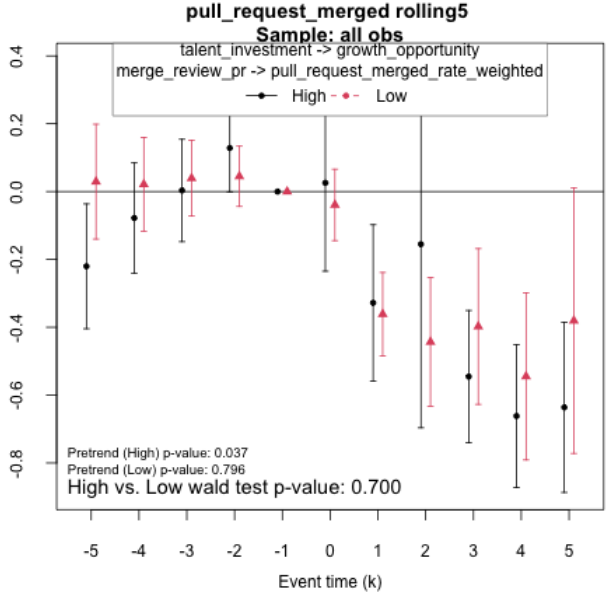

overall_new_release_count rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> any_activity_rate_weighted
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.057
High vs. Low wald test p-value: 0.881
Event time (k)

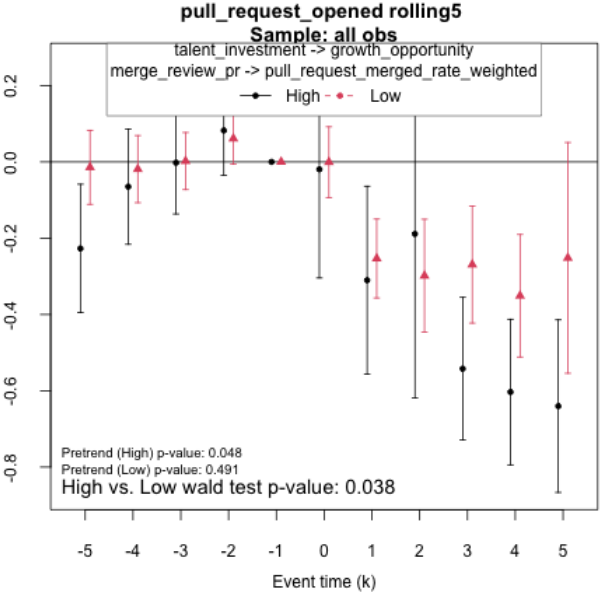

pull_request_merged rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> any_activity_rate_weighted
High
Low
Pretrend (High) p-value: 0.908
Pretrend (Low) p-value: 0.632
High vs. Low wald test p-value: 0.274
Event time (k)

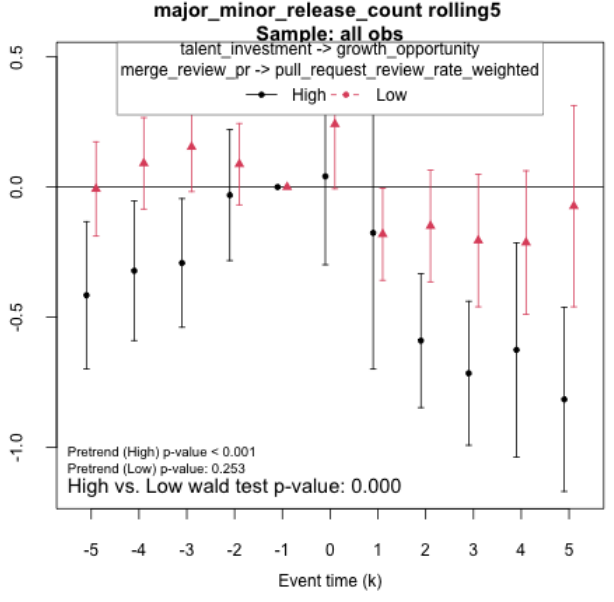

pull_request_opened rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> any_activity_rate_weighted
High
Low
Pretrend (High) p-value: 0.544
Pretrend (Low) p-value: 0.295
High vs. Low wald test p-value: 0.345
Event time (k)

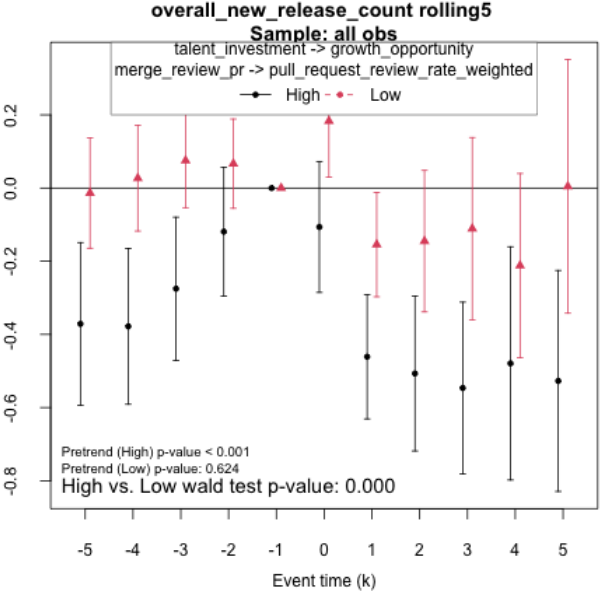

major_minor_release_count rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> pull_request_merged_rate_weighted
High
Low
Pretrend (High) p-value: 0.086
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.776
Event time (k)

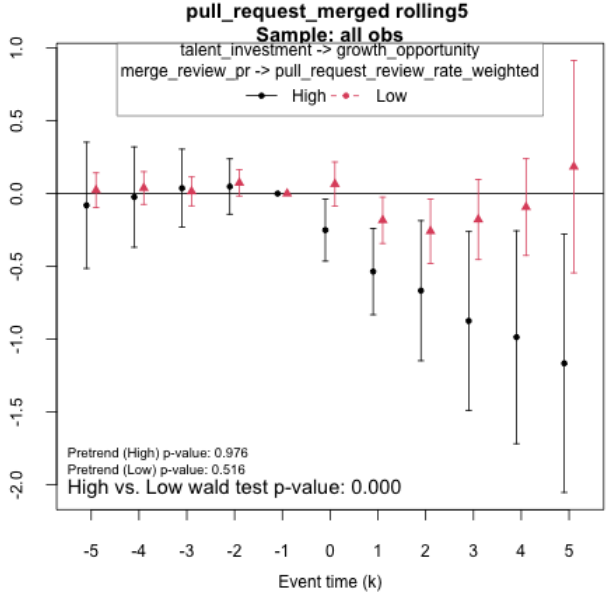

overall_new_release_count rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> pull_request_merged_rate_weighted
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value < 0.001
High vs. Low wald test p-value: 0.977
Event time (k)

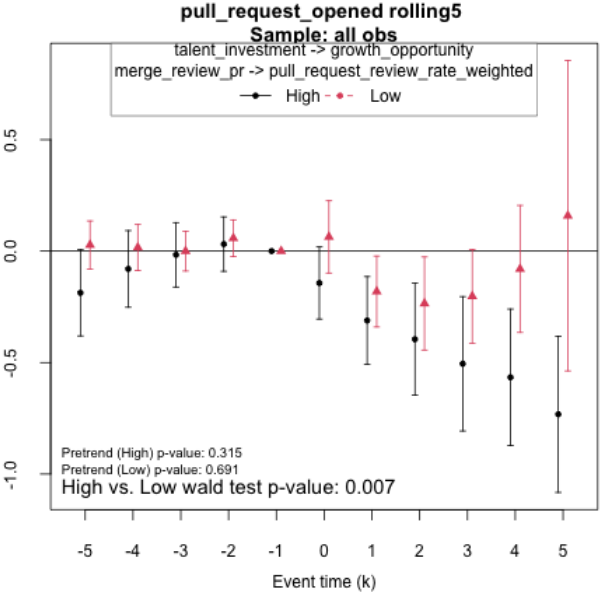

pull_request_merged rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> pull_request_merged_rate_weighted
High
Low
Pretrend (High) p-value: 0.037
Pretrend (Low) p-value: 0.796
High vs. Low wald test p-value: 0.700
Event time (k)

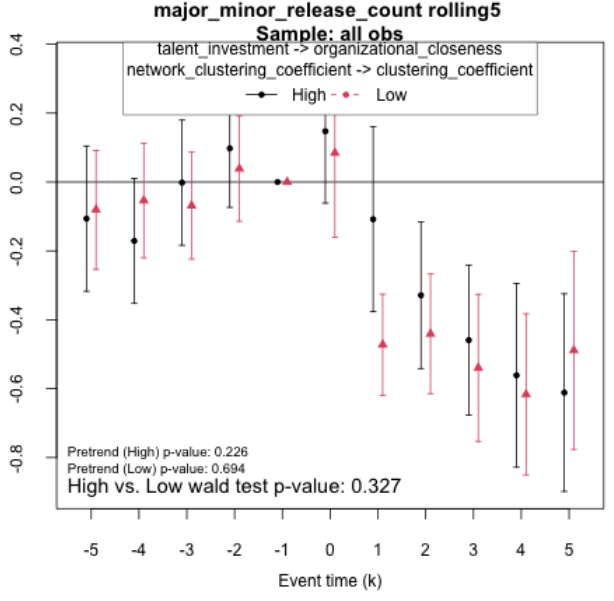

pull_request_opened rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> pull_request_merged_rate_weighted
High
Low
Pretrend (High) p-value: 0.048
Pretrend (Low) p-value: 0.491
High vs. Low wald test p-value: 0.038
Event time (k)

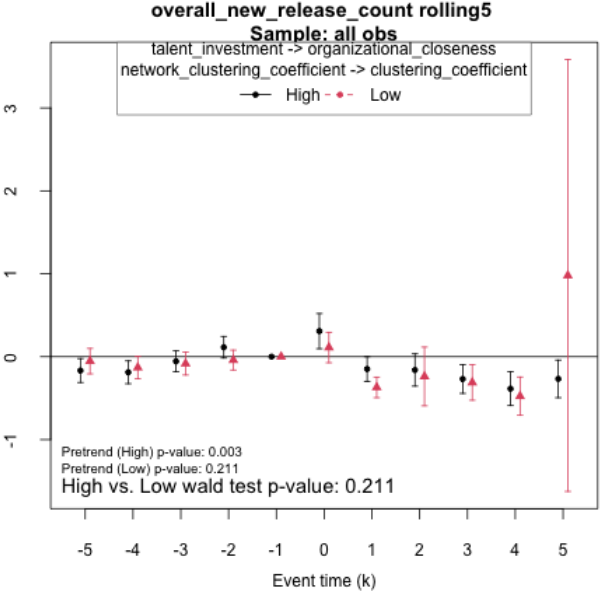

major_minor_release_count rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> pull_request_review_rate_weighted
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.253
High vs. Low wald test p-value: 0.000
Event time (k)

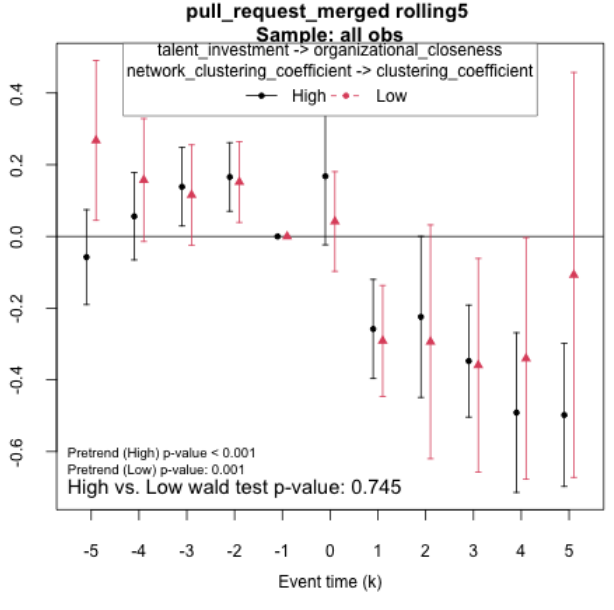

overall_new_release_count rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> pull_request_review_rate_weighted
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.624
High vs. Low wald test p-value: 0.000
Event time (k)

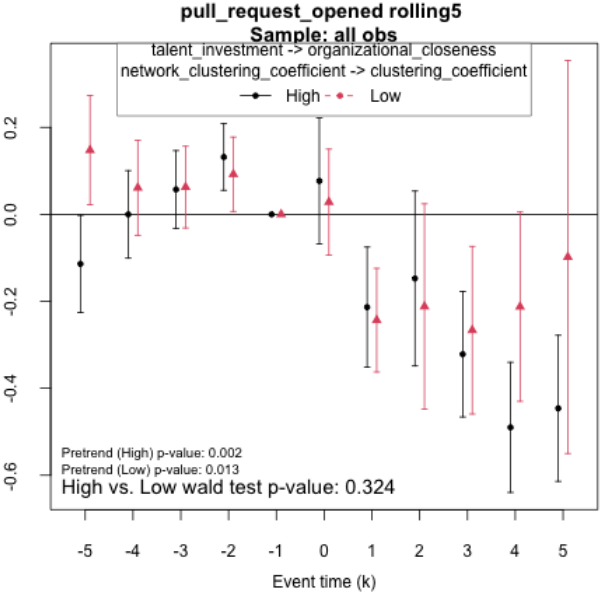

pull_request_merged rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> pull_request_review_rate_weighted
High
Low
Pretrend (High) p-value: 0.976
Pretrend (Low) p-value: 0.516
High vs. Low wald test p-value: 0.000
Event time (k)


pull_request_opened rolling5
Sample: all obs
talent_investment -> growth_opportunity
merge_review_pr -> pull_request_review_rate_weighted
High
Low
Pretrend (High) p-value: 0.315
Pretrend (Low) p-value: 0.691
High vs. Low wald test p-value: 0.007
Event time (k)


major_minor_release_count rolling5
Sample: all obs
talent_investment -> organizational_closeness
network_clustering_coefficient -> clustering_coefficient
High
Low
Pretrend (High) p-value: 0.226
Pretrend (Low) p-value: 0.694
High vs. Low wald test p-value: 0.327
Event time (k)


overall_new_release_count rolling5
Sample: all obs
talent_investment -> organizational_closeness
network_clustering_coefficient -> clustering_coefficient
High
Low
Pretrend (High) p-value: 0.003
Pretrend (Low) p-value: 0.211
High vs. Low wald test p-value: 0.211
Event time (k)


pull_request_merged rolling5
Sample: all obs
talent_investment -> organizational_closeness
network_clustering_coefficient -> clustering_coefficient
High
Low
Pretrend (High) p-value < 0.001
Pretrend (Low) p-value: 0.001
High vs. Low wald test p-value: 0.745
Event time (k)


pull_request_opened rolling5
Sample: all obs
talent_investment -> organizational_closeness
network_clustering_coefficient -> clustering_coefficient
High
Low
Pretrend (High) p-value: 0.002
Pretrend (Low) p-value: 0.013
High vs. Low wald test p-value: 0.324
Event time (k)