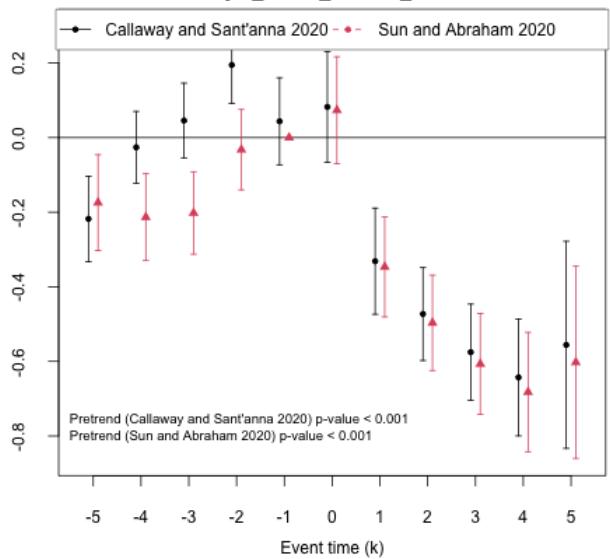
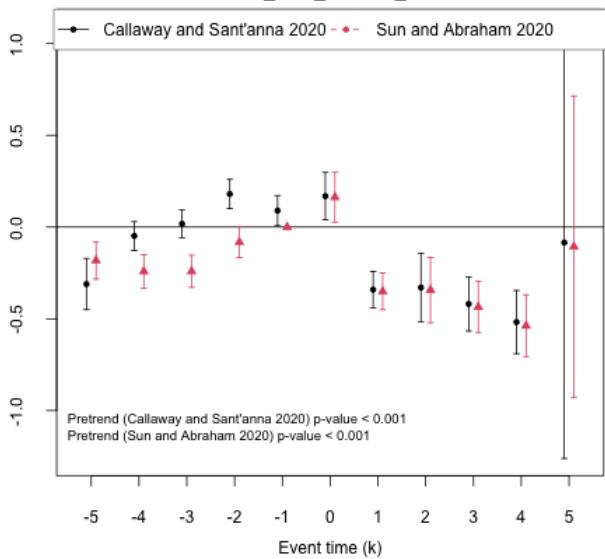
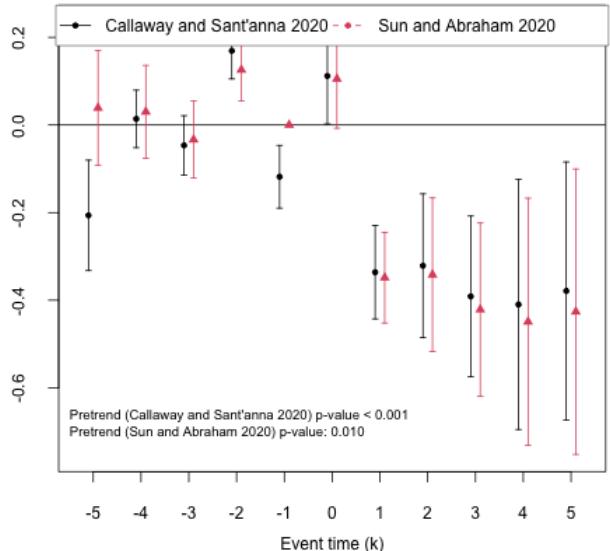
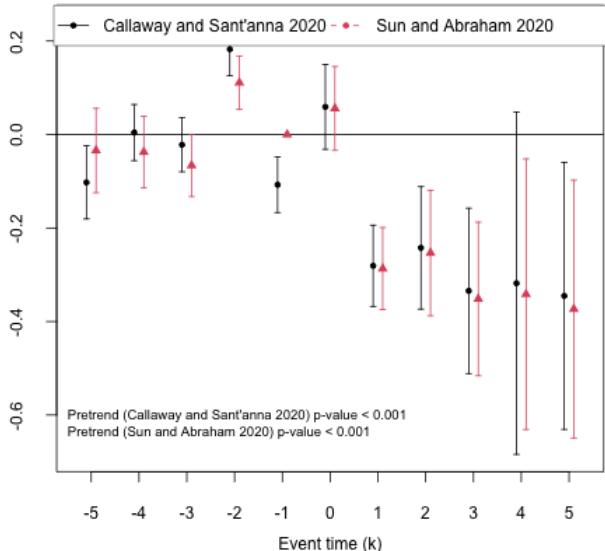


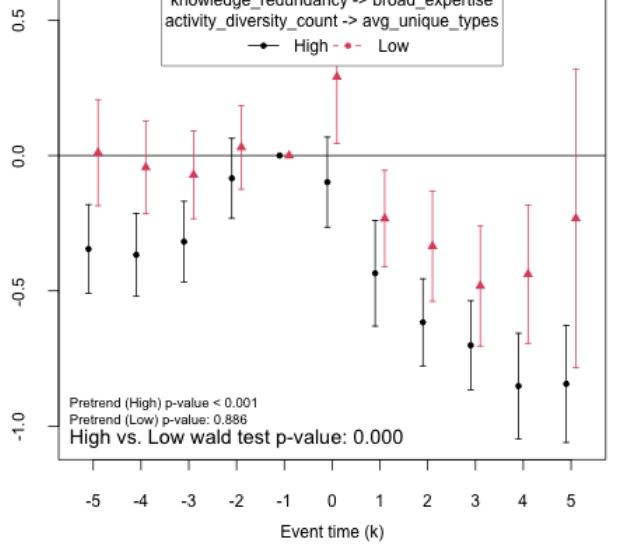
major_minor_release_count**overall_new_release_count****pull_request_merged****pull_request_opened**

major_minor_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
activity_diversity_count -> avg_unique_types

● High ▲ Low

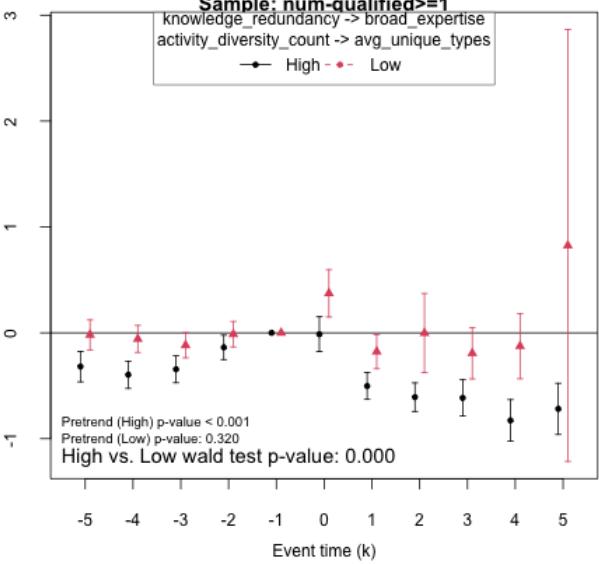


overall_new_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
activity_diversity_count -> avg_unique_types

● High ▲ Low

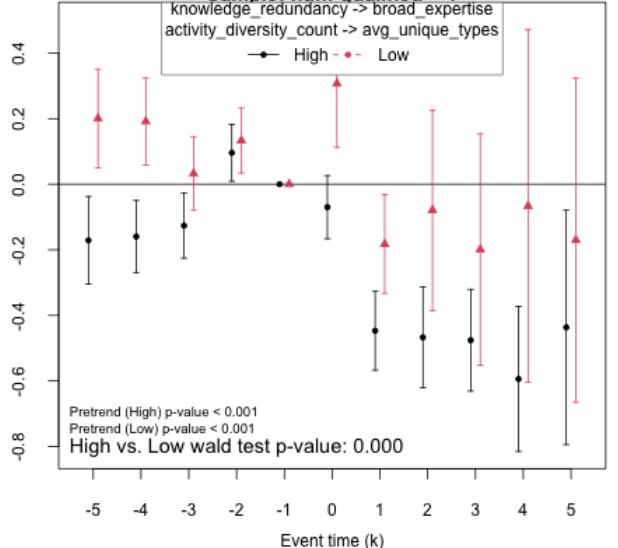


pull_request_merged rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
activity_diversity_count -> avg_unique_types

● High ▲ Low

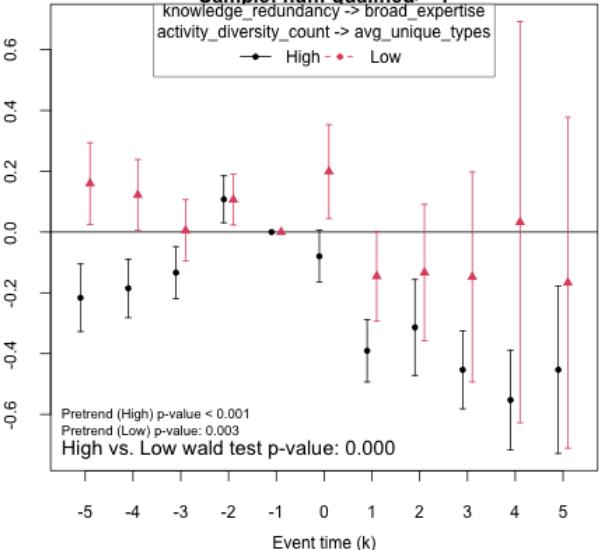


pull_request_opened rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
activity_diversity_count -> avg_unique_types

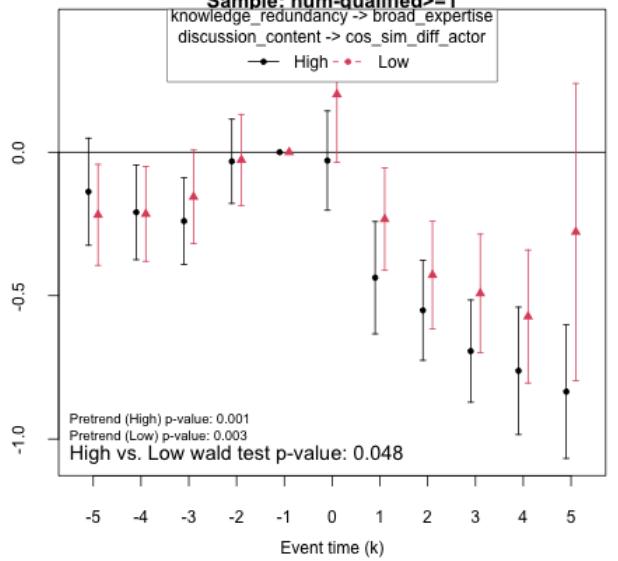
● High ▲ Low



major_minor_release_count rolling5**Sample: num-qualified>=1**

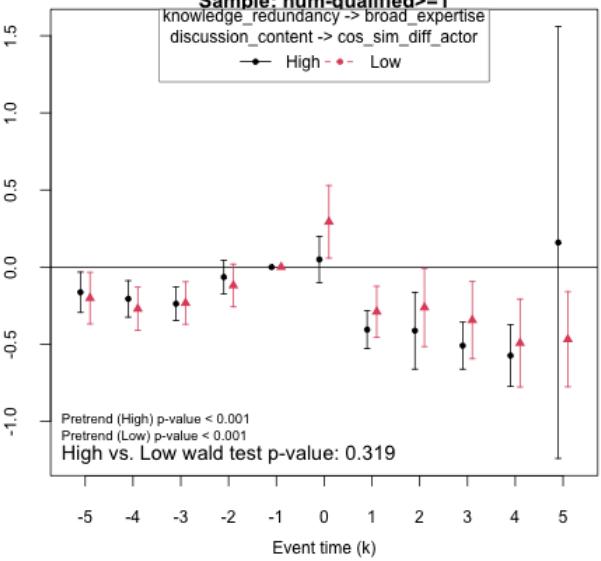
knowledge_redundancy -> broad_expertise
 discussion_content -> cos_sim_diff_actor

● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**

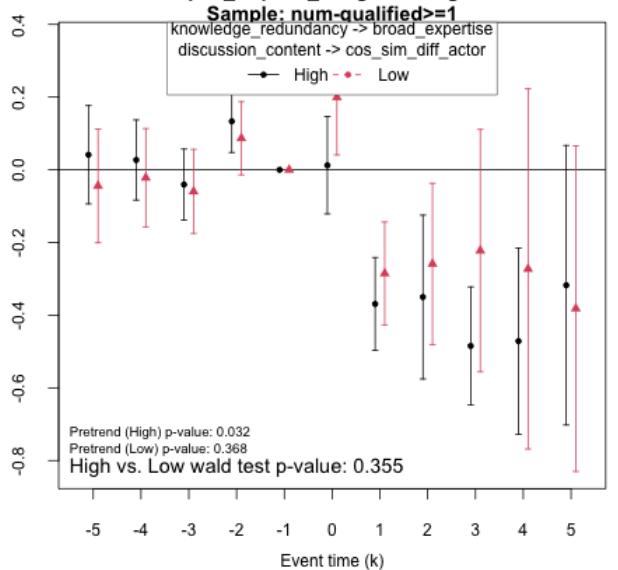
knowledge_redundancy -> broad_expertise
 discussion_content -> cos_sim_diff_actor

● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**

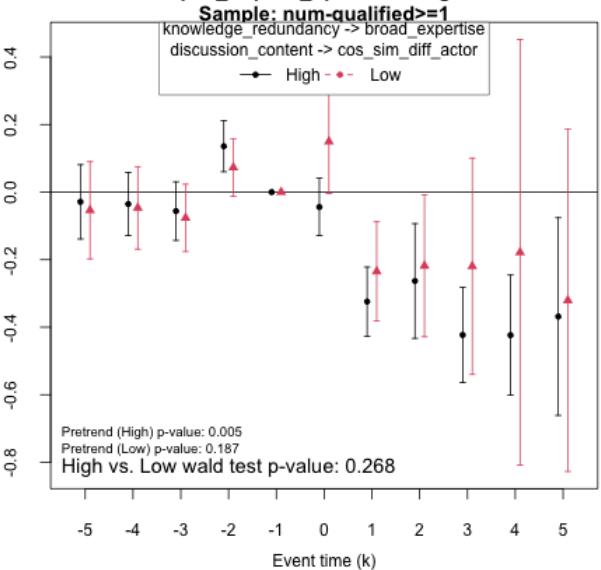
knowledge_redundancy -> broad_expertise
 discussion_content -> cos_sim_diff_actor

● High ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**

knowledge_redundancy -> broad_expertise
 discussion_content -> cos_sim_diff_actor

● High ▲ Low

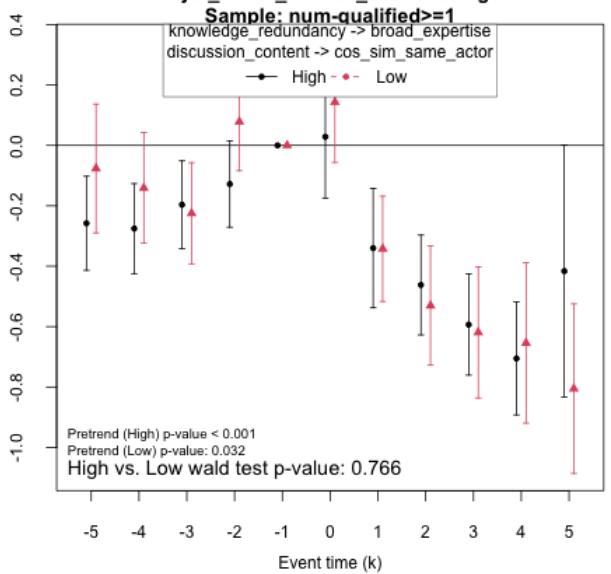


major_minor_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_same_actor

● High ▲ Low

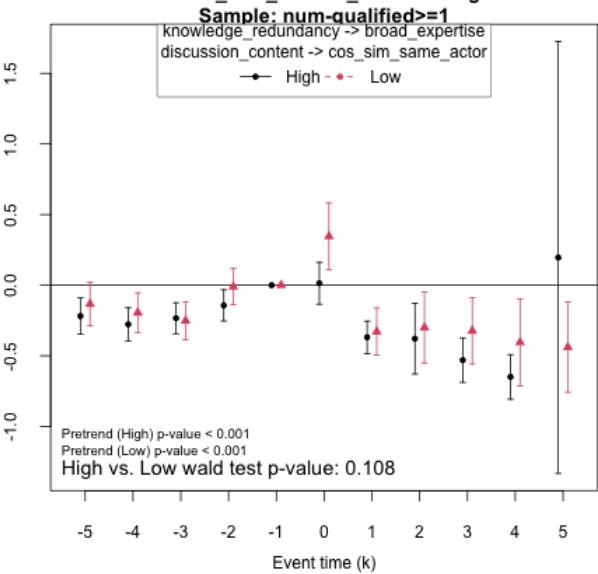


overall_new_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_same_actor

● High ▲ Low

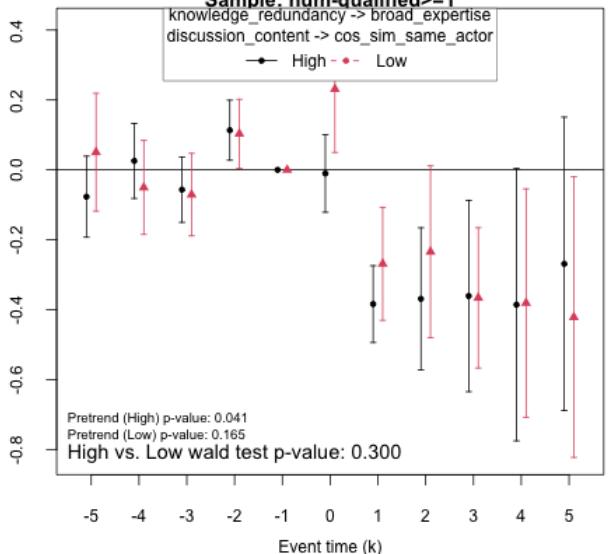


pull_request_merged rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_same_actor

● High ▲ Low

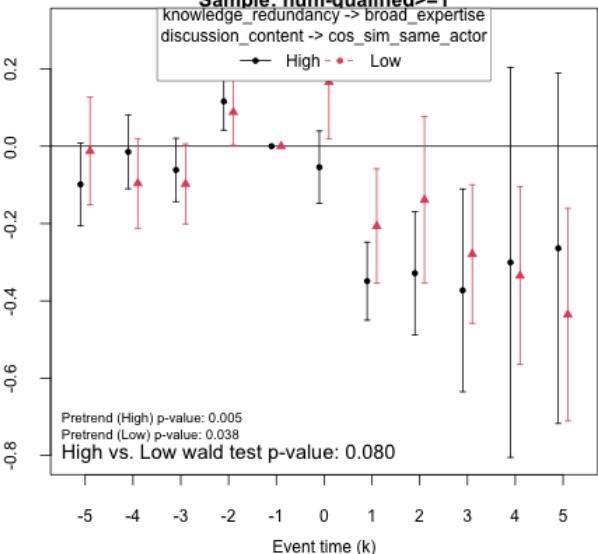


pull_request_opened rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
discussion_content -> cos_sim_same_actor

● High ▲ Low



major_minor_release_count rolling5**Sample: num-qualified>=1**

knowledge_redundancy -> broad_expertise

discussion_content -> text_sim_ratio

● High ▲ Low

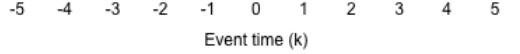
0.0

-0.5

Pretrend (High) p-value: 0.003

Pretrend (Low) p-value < 0.001

High vs. Low wald test p-value: 0.430



Event time (k)

overall_new_release_count rolling5**Sample: num-qualified>=1**

knowledge_redundancy -> broad_expertise

discussion_content -> text_sim_ratio

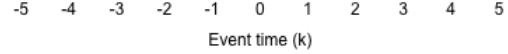
● High ▲ Low

0.0 0.5 1.0 1.5 2.0

Pretrend (High) p-value < 0.001

Pretrend (Low) p-value < 0.001

High vs. Low wald test p-value: 0.591



Event time (k)

pull_request_merged rolling5**Sample: num-qualified>=1**

knowledge_redundancy -> broad_expertise

discussion_content -> text_sim_ratio

● High ▲ Low

0.0

-0.2

Pretrend (High) p-value: 0.025

Pretrend (Low) p-value: 0.044

High vs. Low wald test p-value: 0.529

-0.4

-0.8

pull_request_opened rolling5**Sample: num-qualified>=1**

knowledge_redundancy -> broad_expertise

discussion_content -> text_sim_ratio

● High ▲ Low

0.0

-0.2

Pretrend (High) p-value: 0.015

Pretrend (Low) p-value: 0.004

High vs. Low wald test p-value: 0.449

-0.4

-0.8

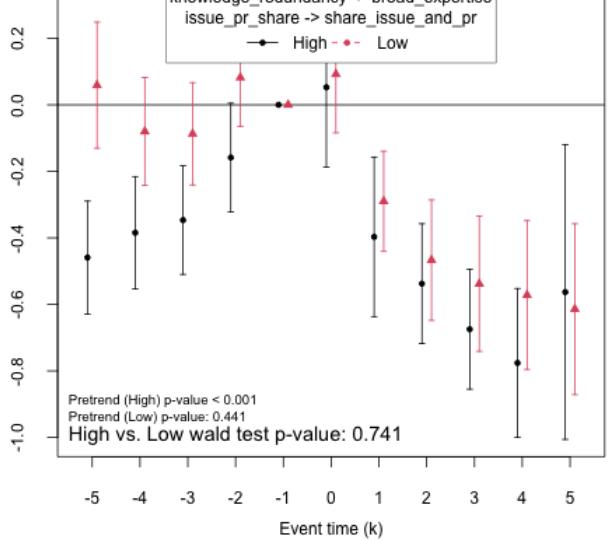
Event time (k)

Event time (k)

major_minor_release_count rolling5

Sample: num-qualified>=1

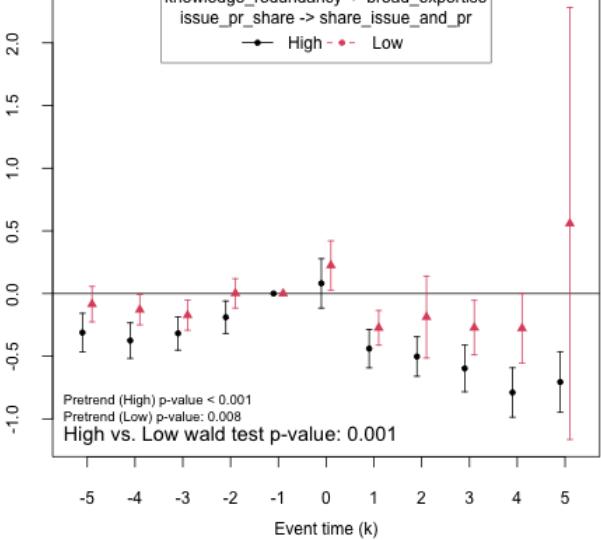
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_and_pr



overall_new_release_count rolling5

Sample: num-qualified>=1

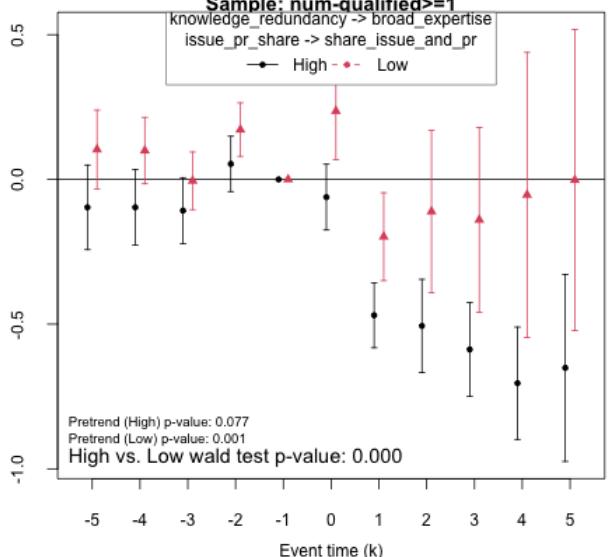
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_and_pr



pull_request_merged rolling5

Sample: num-qualified>=1

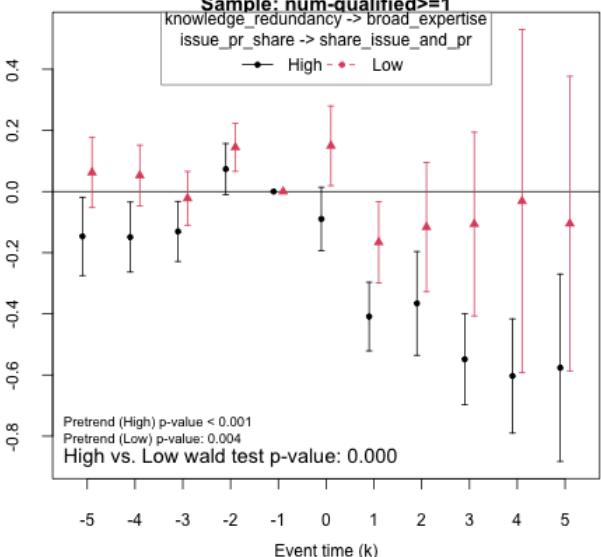
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_and_pr



pull_request_opened rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_and_pr

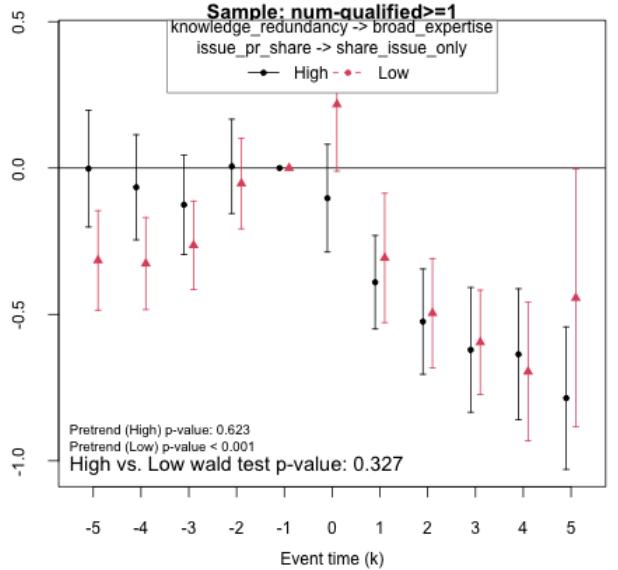


major_minor_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_only

● High ▲ Low

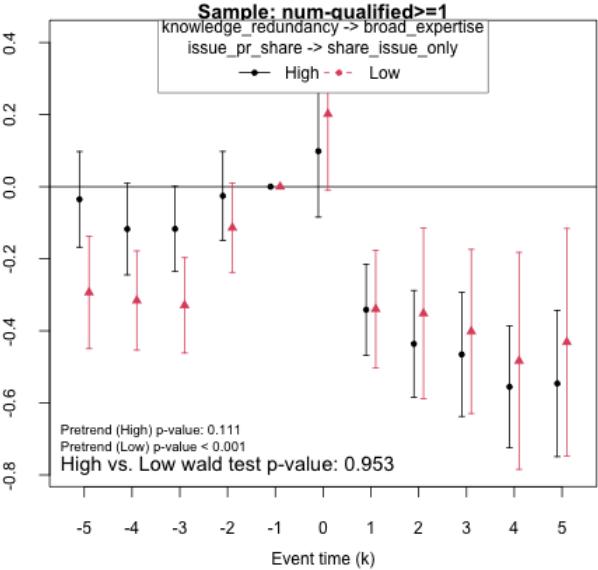


overall_new_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_only

● High ▲ Low

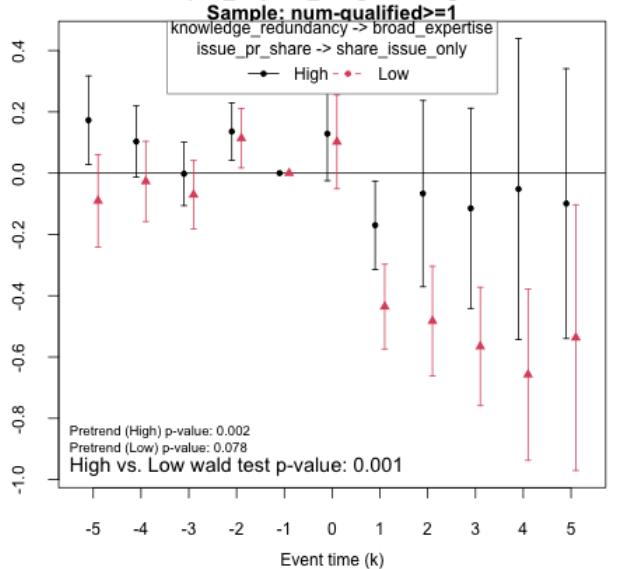


pull_request_merged rolling5

Sample: num-qualified>=1

knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_only

● High ▲ Low

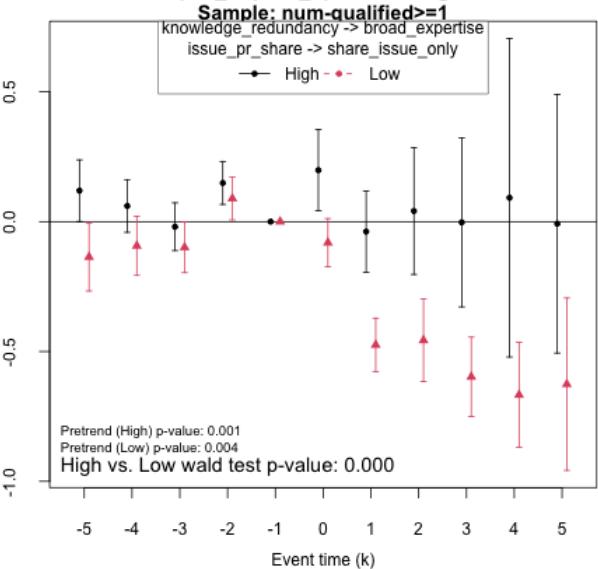


pull_request_opened rolling5

Sample: num-qualified>=1

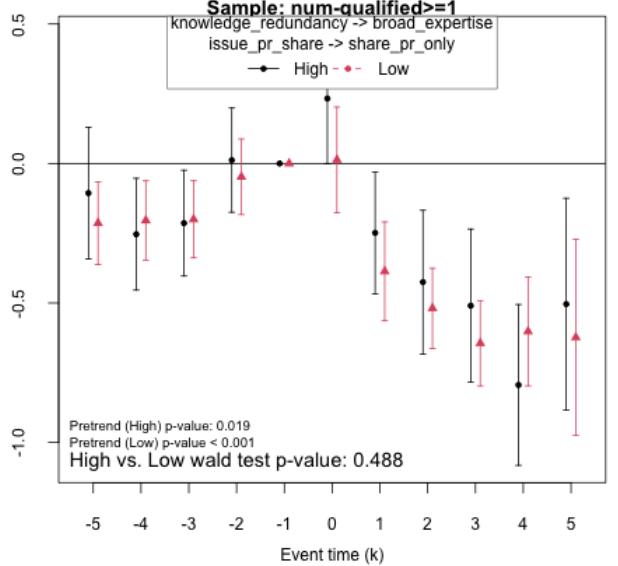
knowledge_redundancy -> broad_expertise
issue_pr_share -> share_issue_only

● High ▲ Low

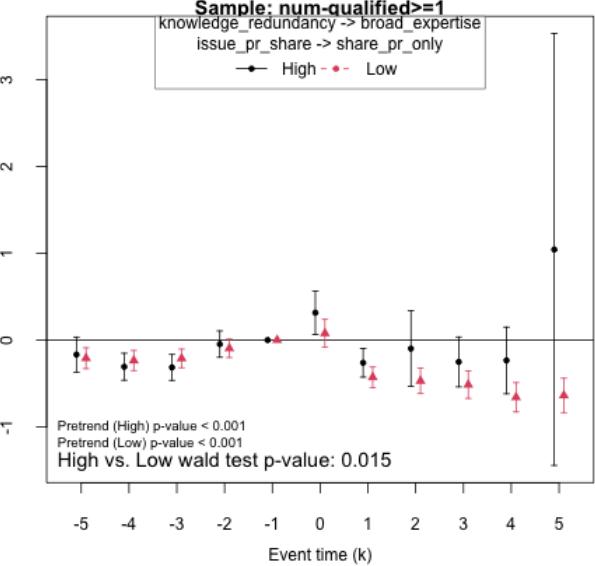


major_minor_release_count rolling5**Sample: num-qualified>=1**knowledge_redundancy -> broad_expertise
issue_pr_share -> share_pr_only

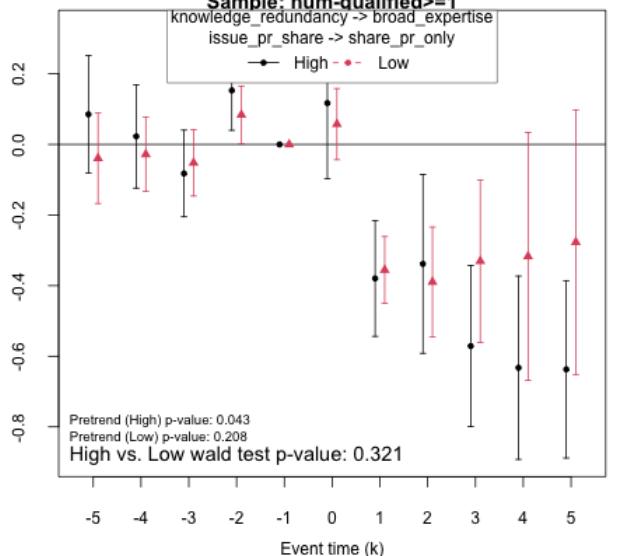
● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**knowledge_redundancy -> broad_expertise
issue_pr_share -> share_pr_only

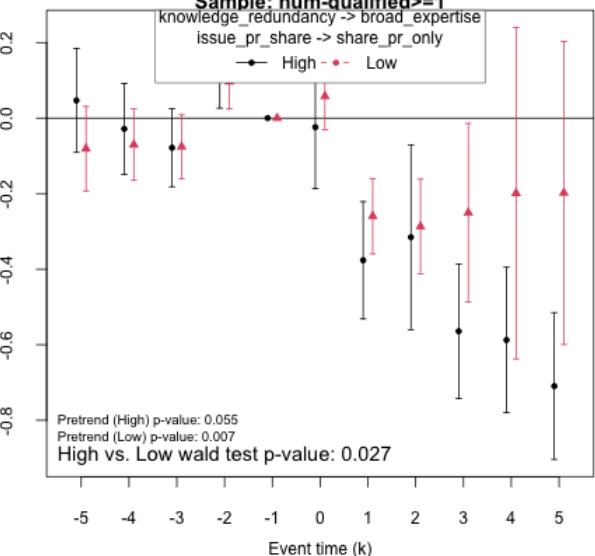
● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**knowledge_redundancy -> broad_expertise
issue_pr_share -> share_pr_only

● High ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**knowledge_redundancy -> broad_expertise
issue_pr_share -> share_pr_only

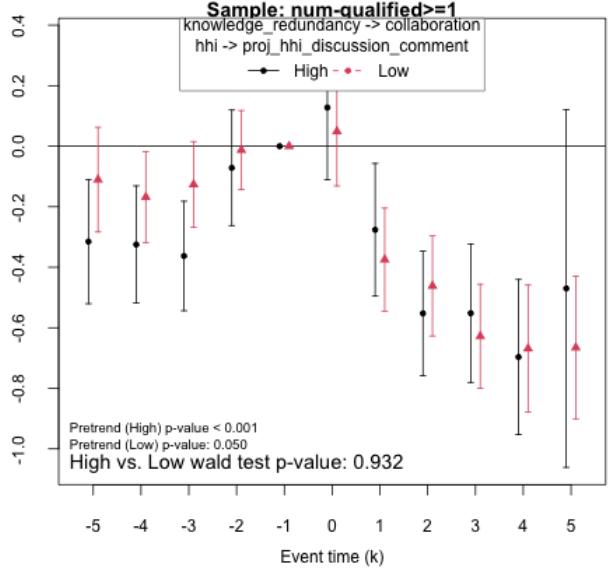
● High ▲ Low



major_minor_release_count rolling5

Sample: num-qualified>=1

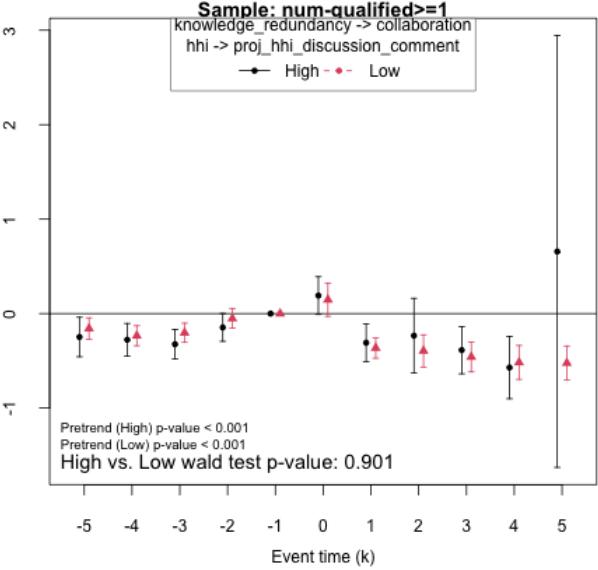
knowledge_redundancy -> collaboration
hhic -> proj_hhic_discussion_comment
● High ▲ Low



overall_new_release_count rolling5

Sample: num-qualified>=1

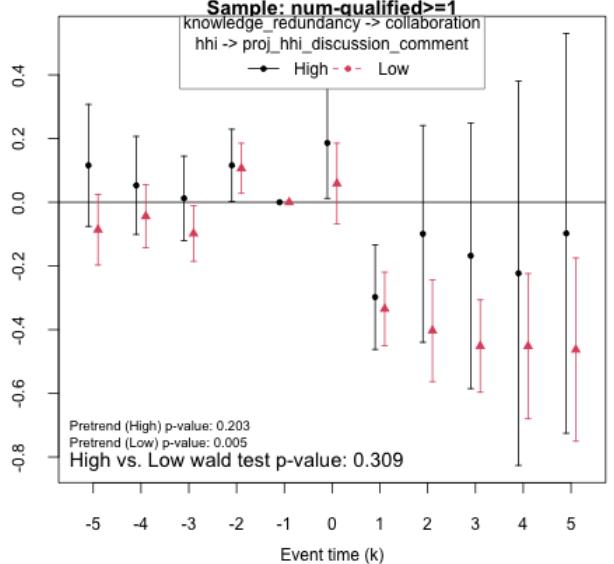
knowledge_redundancy -> collaboration
hhic -> proj_hhic_discussion_comment
● High ▲ Low



pull_request_merged rolling5

Sample: num-qualified>=1

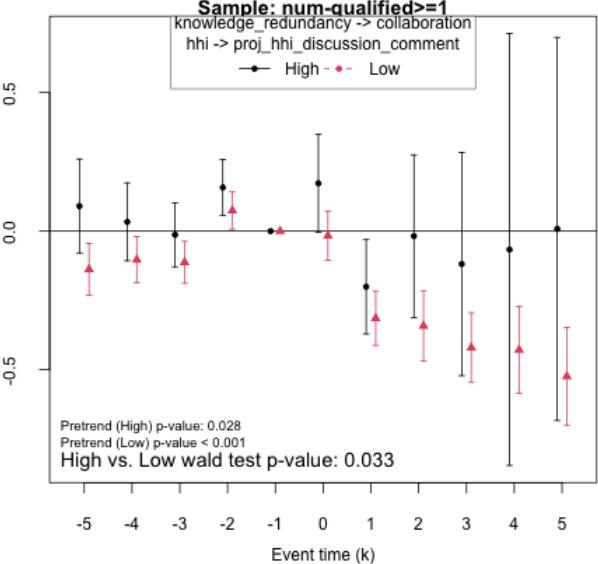
knowledge_redundancy -> collaboration
hhic -> proj_hhic_discussion_comment
● High ▲ Low



pull_request_opened rolling5

Sample: num-qualified>=1

knowledge_redundancy -> collaboration
hhic -> proj_hhic_discussion_comment
● High ▲ Low

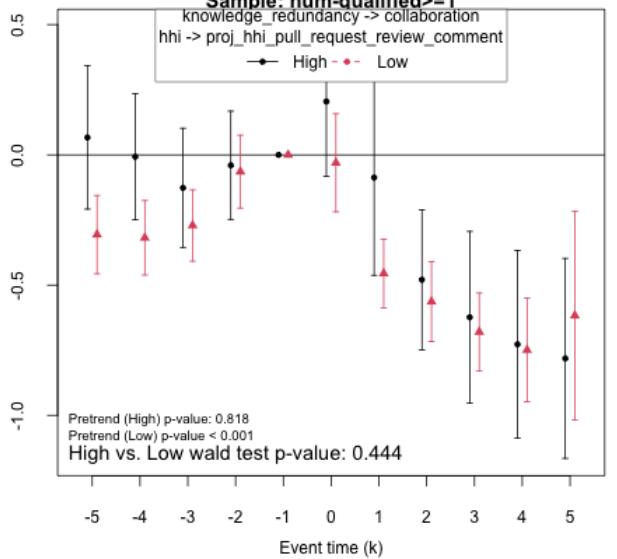


major_minor_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration
hh1 -> proj_hh1_pull_request_review_comment

● High ▲ Low

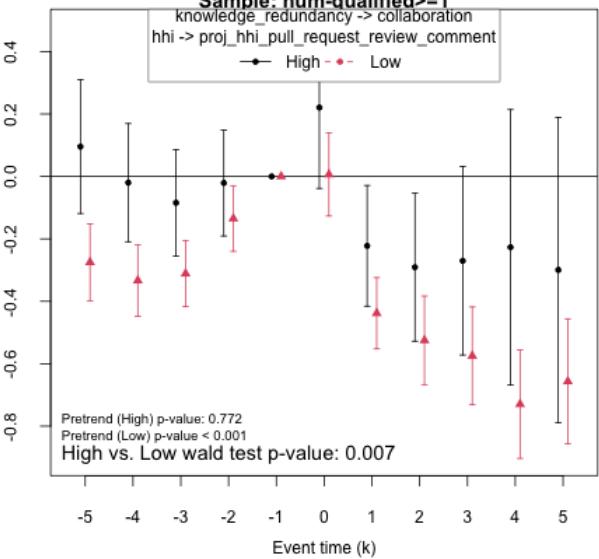


overall_new_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration
hh1 -> proj_hh1_pull_request_review_comment

● High ▲ Low

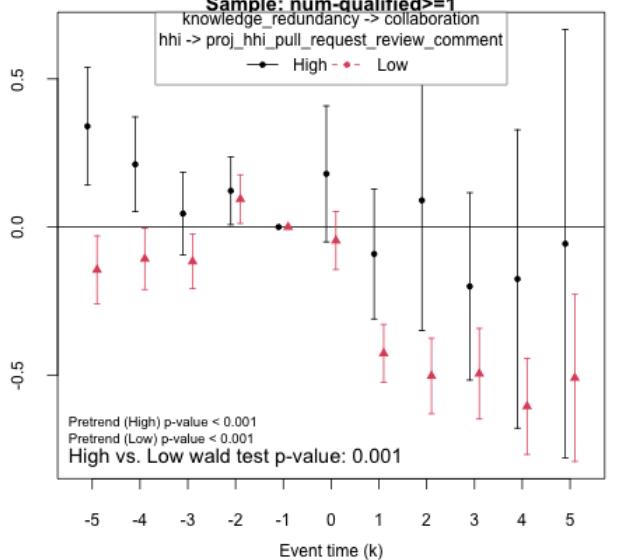


pull_request_merged rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration
hh1 -> proj_hh1_pull_request_review_comment

● High ▲ Low

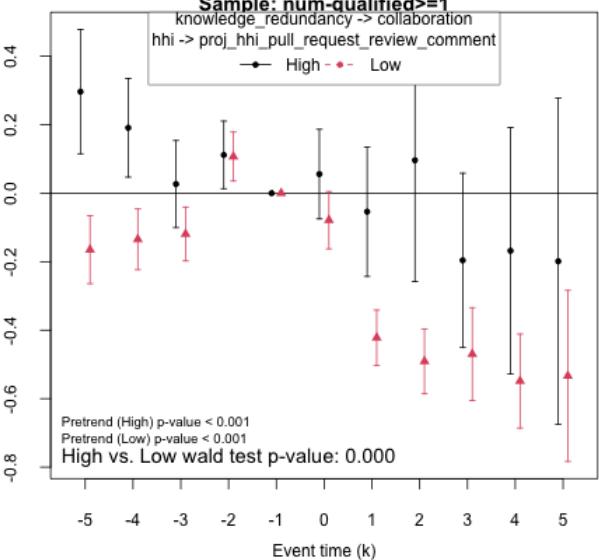


pull_request_opened rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration
hh1 -> proj_hh1_pull_request_review_comment

● High ▲ Low

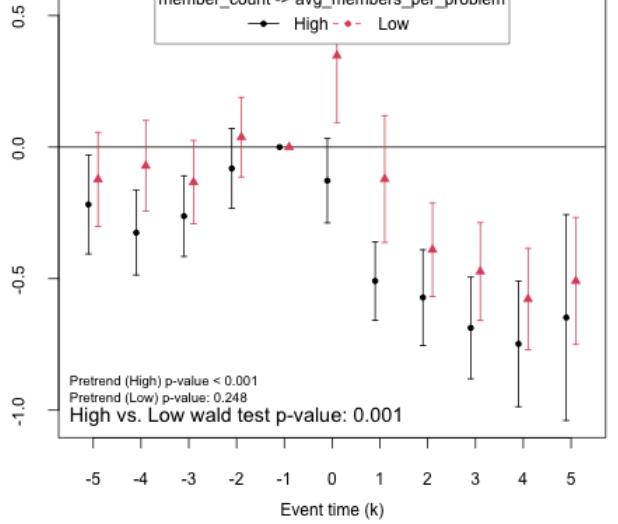


major_minor_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy -> collaboration
member_count -> avg_members_per_problem

● High ▲ Low

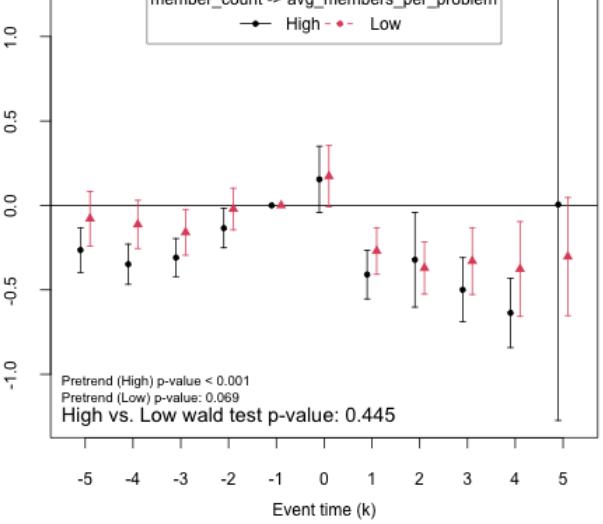


overall_new_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy -> collaboration
member_count -> avg_members_per_problem

● High ▲ Low

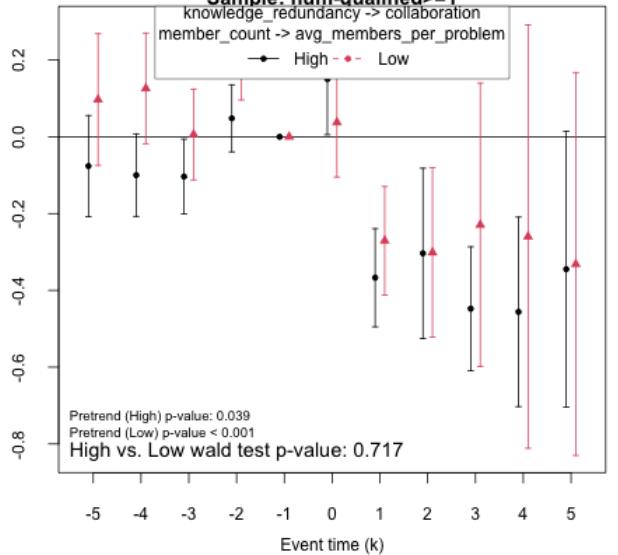


pull_request_merged rolling5

Sample: num-qualified>=1

knowledge_redundancy -> collaboration
member_count -> avg_members_per_problem

● High ▲ Low

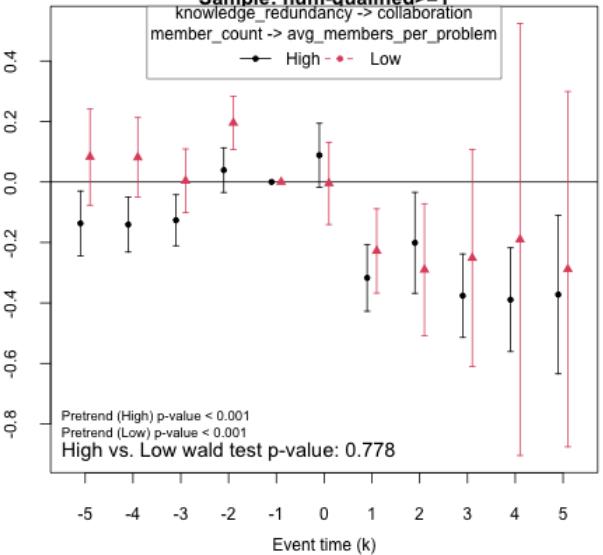


pull_request_opened rolling5

Sample: num-qualified>=1

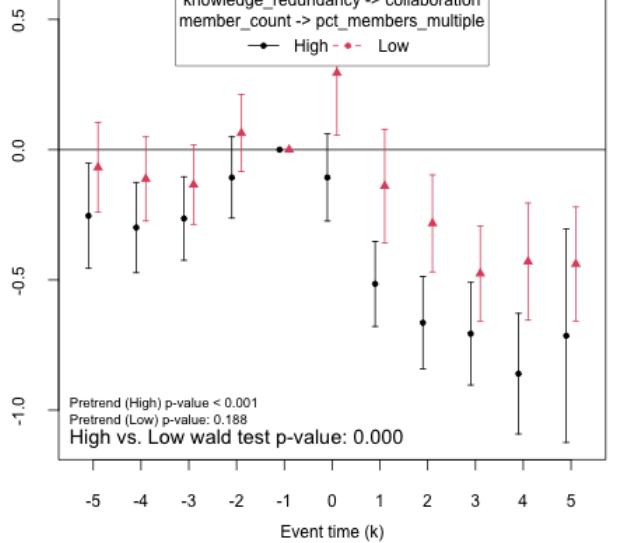
knowledge_redundancy -> collaboration
member_count -> avg_members_per_problem

● High ▲ Low

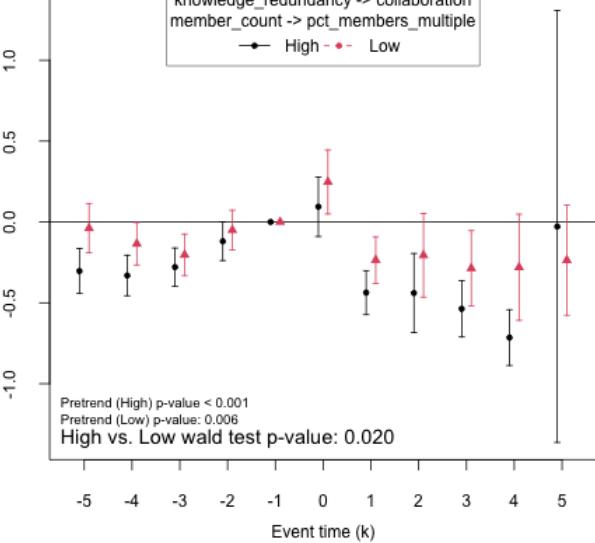


major_minor_release_count rolling5**Sample: num-qualified>=1**knowledge_redundancy->collaboration
member_count->pct_members_multiple

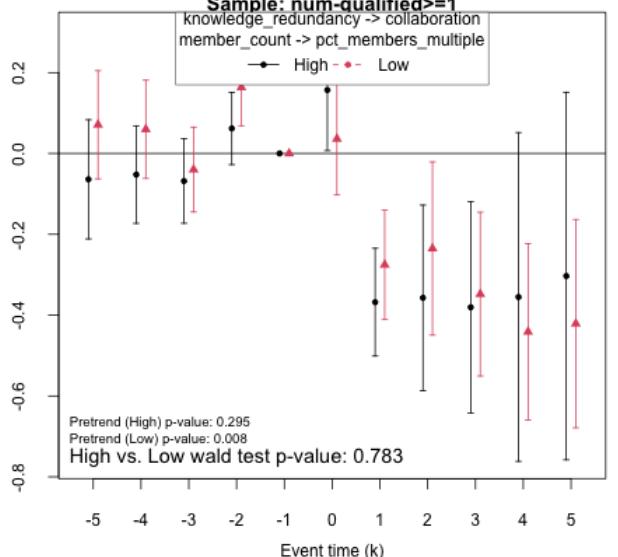
● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**knowledge_redundancy->collaboration
member_count->pct_members_multiple

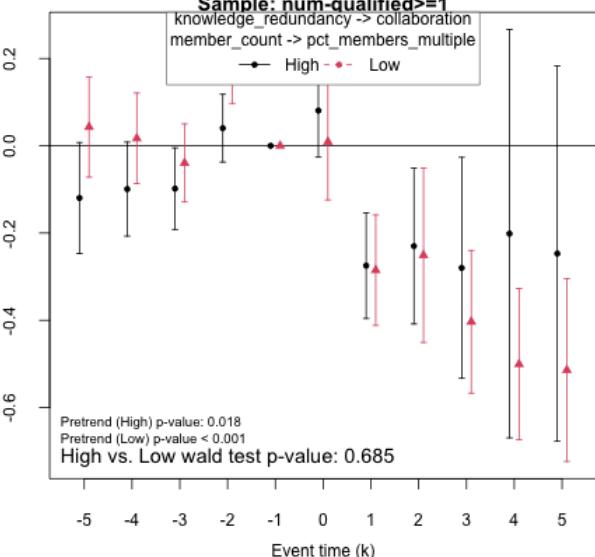
● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**knowledge_redundancy->collaboration
member_count->pct_members_multiple

● High ▲ Low

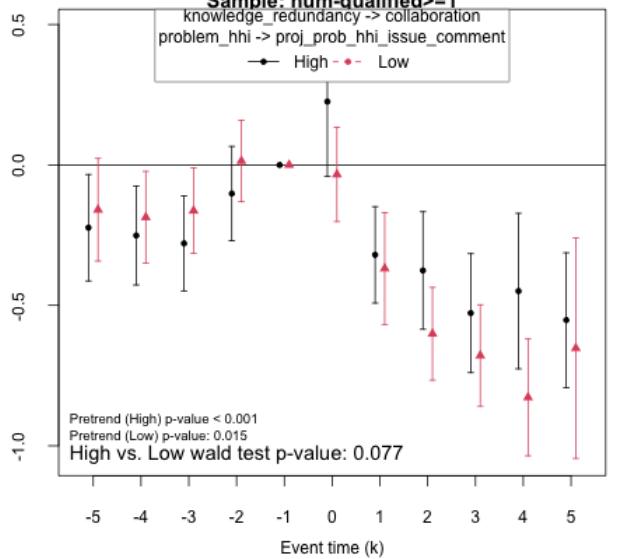
**pull_request_opened rolling5****Sample: num-qualified>=1**knowledge_redundancy->collaboration
member_count->pct_members_multiple

● High ▲ Low

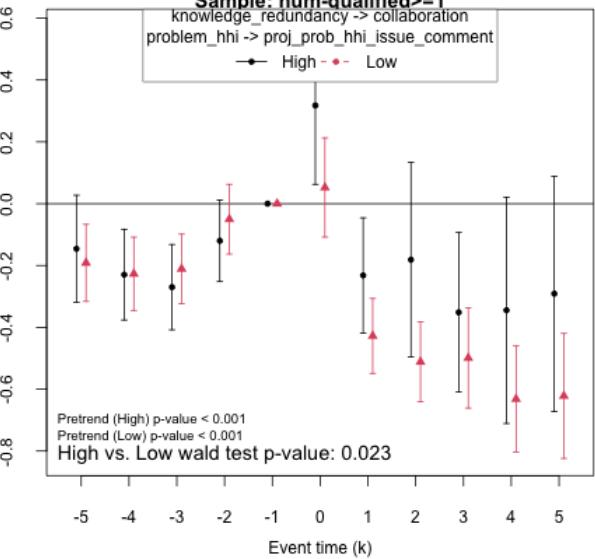


major_minor_release_count rolling5**Sample: num-qualified>=1**knowledge_redundancy->collaboration
problem_hhi->proj_prob_hhi_issue_comment

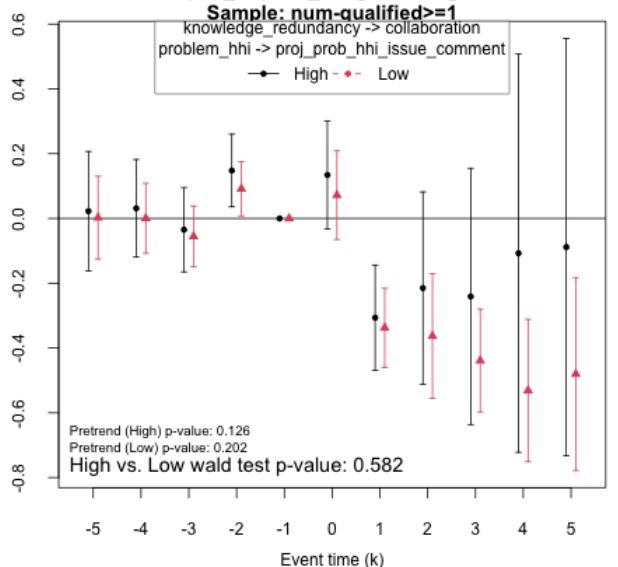
● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**knowledge_redundancy->collaboration
problem_hhi->proj_prob_hhi_issue_comment

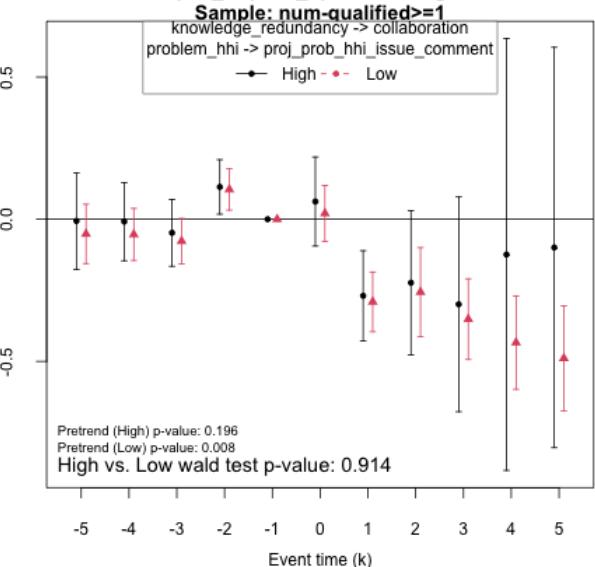
● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**knowledge_redundancy->collaboration
problem_hhi->proj_prob_hhi_issue_comment

● High ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**knowledge_redundancy->collaboration
problem_hhi->proj_prob_hhi_issue_comment

● High ▲ Low

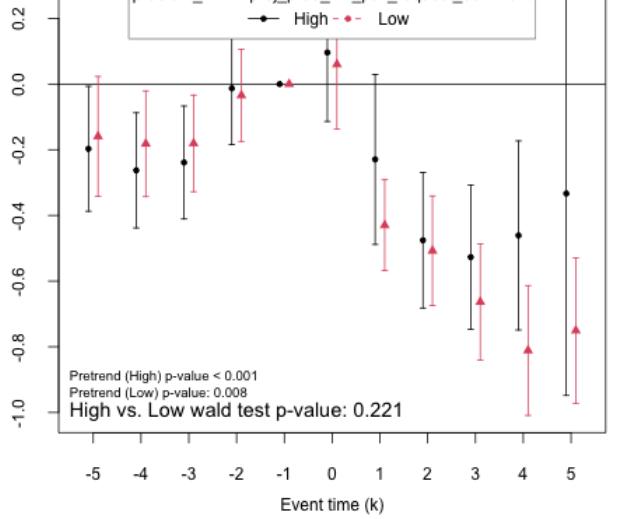


major_minor_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration
problem_hhi -> proj_prob_hhi_pull_request_comment

● High ▲ Low

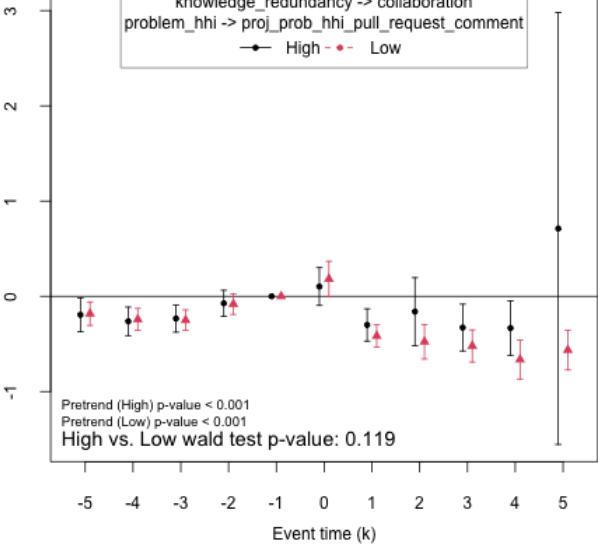


overall_new_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration
problem_hhi -> proj_prob_hhi_pull_request_comment

● High ▲ Low

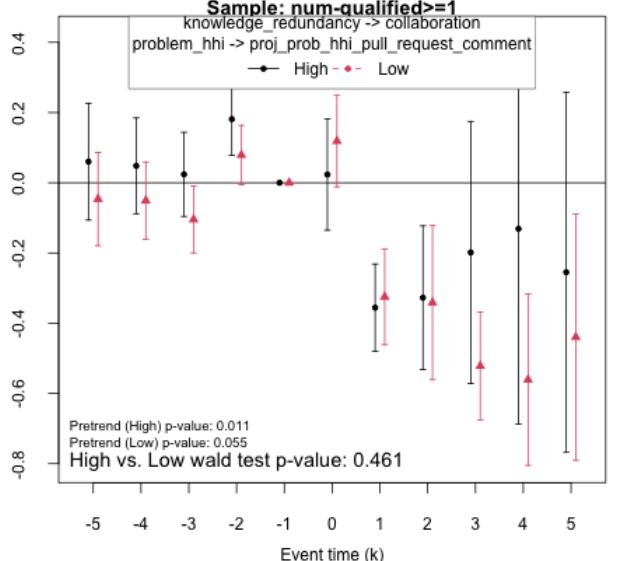


pull_request_merged rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration
problem_hhi -> proj_prob_hhi_pull_request_comment

● High ▲ Low

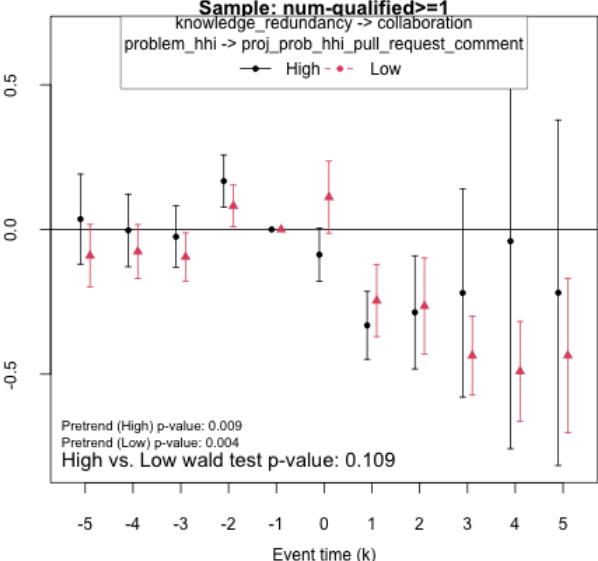


pull_request_opened rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration
problem_hhi -> proj_prob_hhi_pull_request_comment

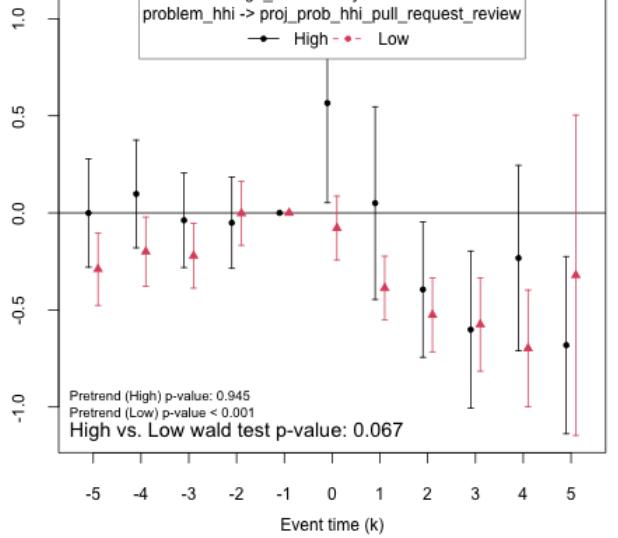
● High ▲ Low



major_minor_release_count rolling5**Sample: num-qualified>=1**

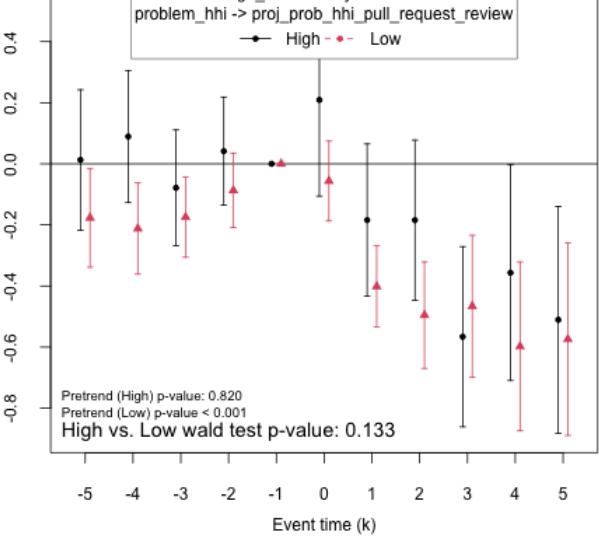
knowledge_redundancy->collaboration
problem_hhi->proj_prob_hhi_pull_request_review

● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**

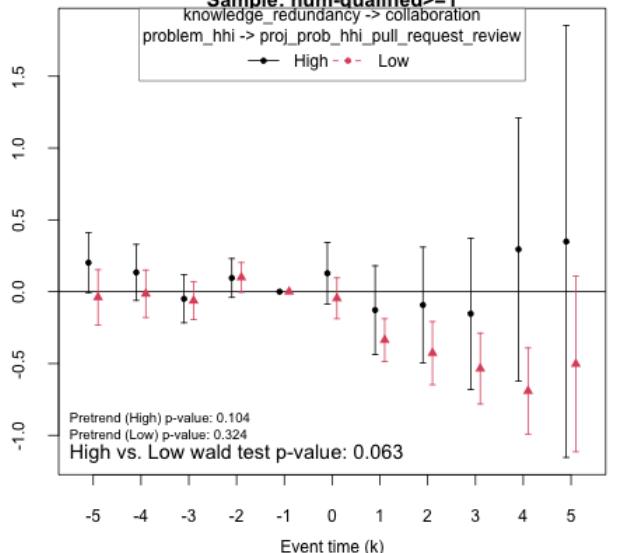
knowledge_redundancy->collaboration
problem_hhi->proj_prob_hhi_pull_request_review

● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**

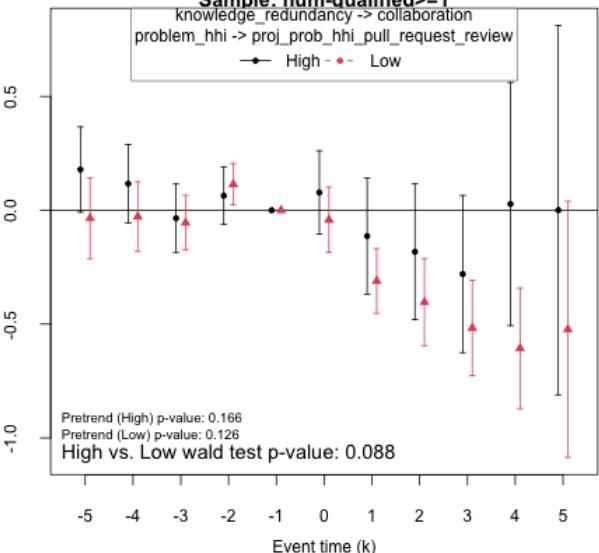
knowledge_redundancy->collaboration
problem_hhi->proj_prob_hhi_pull_request_review

● High ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**

knowledge_redundancy->collaboration
problem_hhi->proj_prob_hhi_pull_request_review

● High ▲ Low



major_minor_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration

problem_hhi -> proj_prob_hhi_pull_request_review_comment

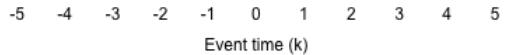
● High - ▲ Low

0.0

-0.5

Pretrend (High) p-value: 0.199
Pretrend (Low) p-value < 0.001

High vs. Low wald test p-value: 0.373



Event time (k)

overall_new_release_count rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration

problem_hhi -> proj_prob_hhi_pull_request_review_comment

● High - ▲ Low

0.4

0.0

-0.4

Pretrend (High) p-value: 0.088

Pretrend (Low) p-value < 0.001

High vs. Low wald test p-value: 0.015



Event time (k)

pull_request_merged rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration

problem_hhi -> proj_prob_hhi_pull_request_review_comment

● High - ▲ Low

0.4

0.0

Pretrend (High) p-value: 0.036
Pretrend (Low) p-value: 0.006

High vs. Low wald test p-value: 0.054



Event time (k)

pull_request_opened rolling5

Sample: num-qualified>=1

knowledge_redundancy->collaboration

problem_hhi -> proj_prob_hhi_pull_request_review_comment

● High - ▲ Low

0.4

0.0

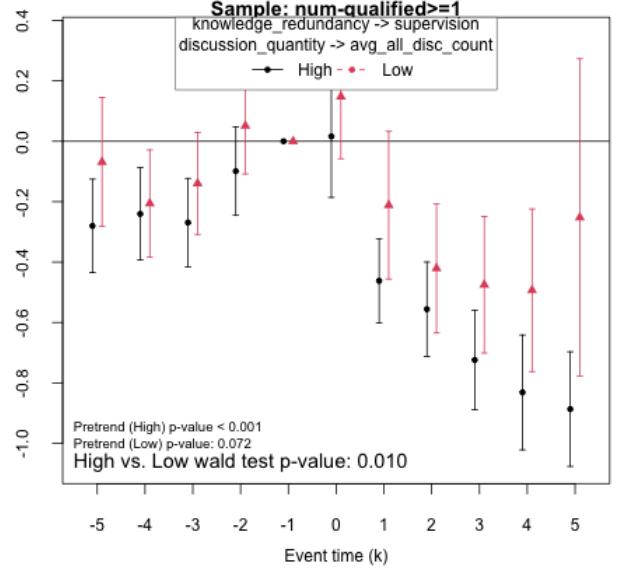
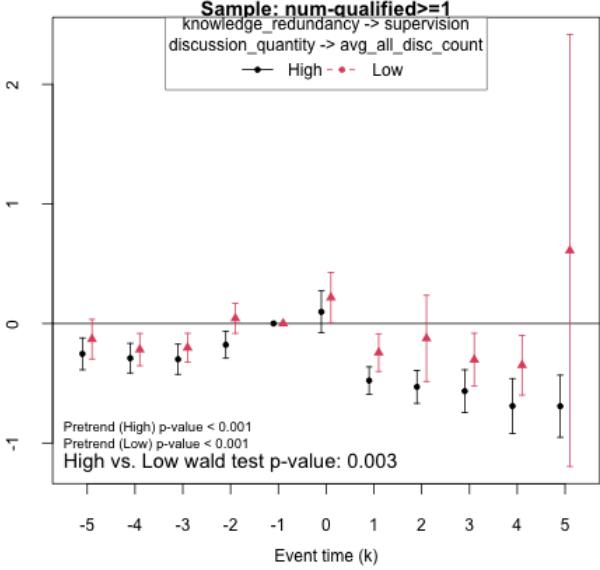
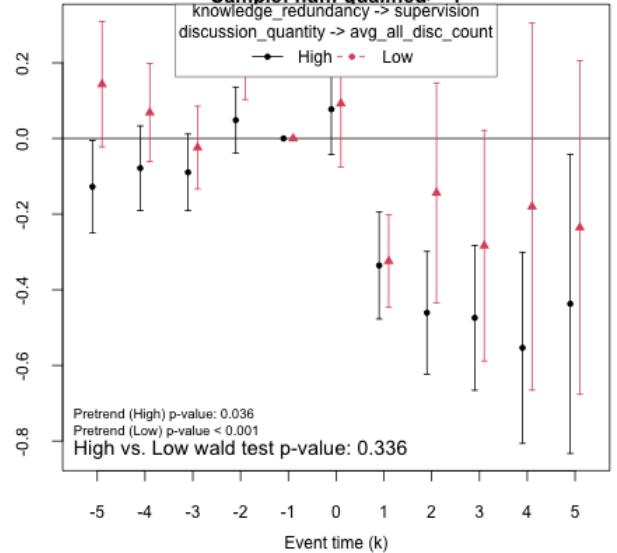
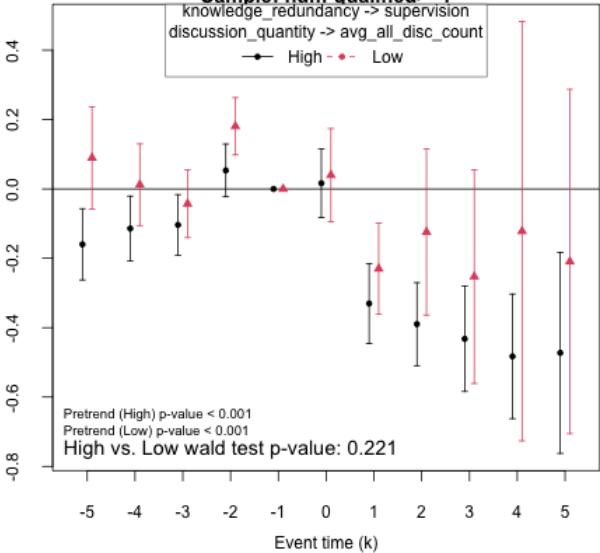
Pretrend (High) p-value: 0.088

Pretrend (Low) p-value < 0.001

High vs. Low wald test p-value: 0.141



Event time (k)

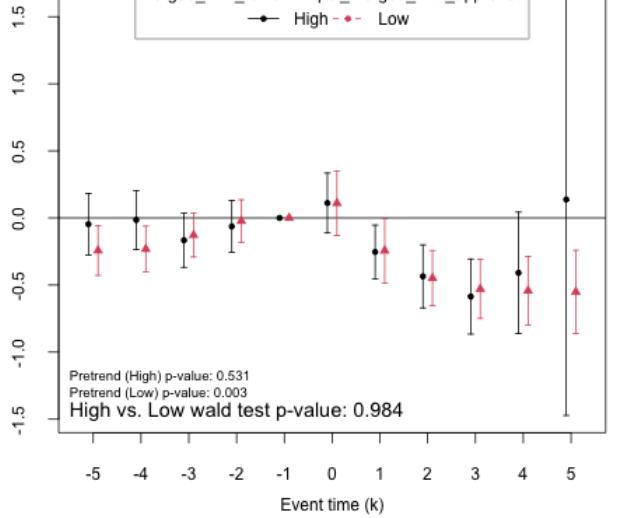
major_minor_release_count rolling5**Sample: num-qualified>=1****overall_new_release_count rolling5****Sample: num-qualified>=1****pull_request_merged rolling5****Sample: num-qualified>=1****pull_request_opened rolling5****Sample: num-qualified>=1**

major_minor_release_count rolling5**Sample: num-qualified>=1**

knowledge_redundancy-> supervision

merged_with_review -> pct_merged_with_approved

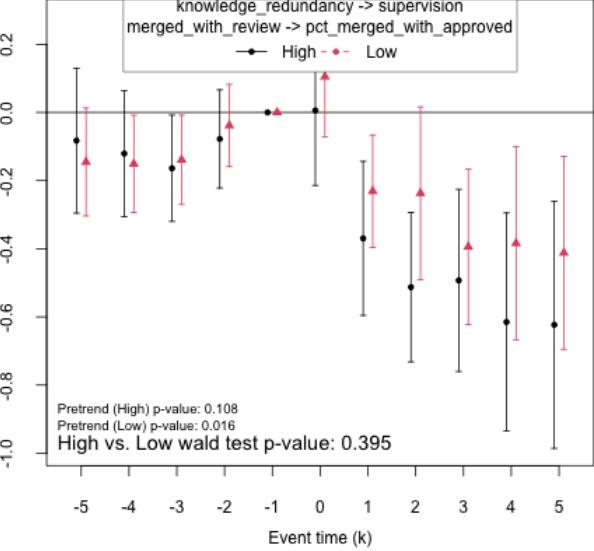
● High - ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**

knowledge_redundancy-> supervision

merged_with_review -> pct_merged_with_approved

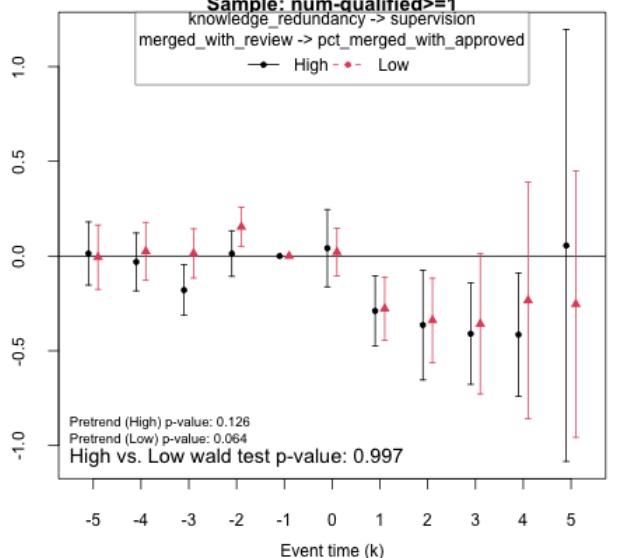
● High - ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**

knowledge_redundancy-> supervision

merged_with_review -> pct_merged_with_approved

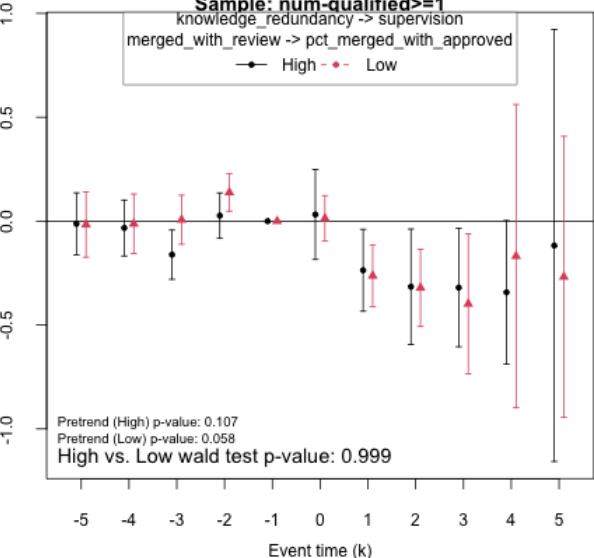
● High - ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**

knowledge_redundancy-> supervision

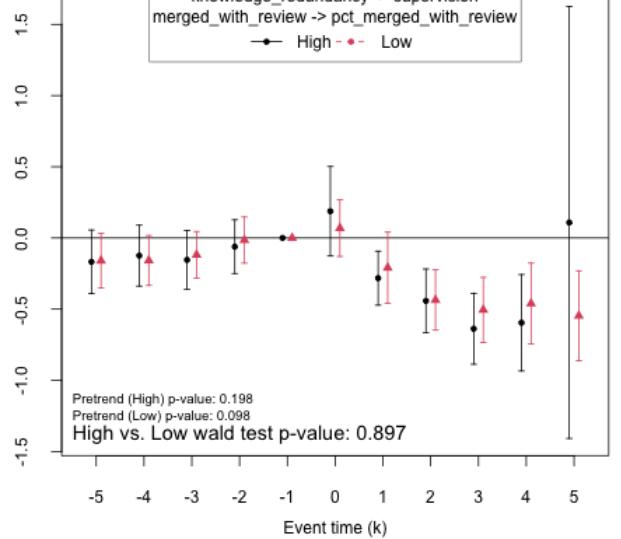
merged_with_review -> pct_merged_with_approved

● High - ▲ Low

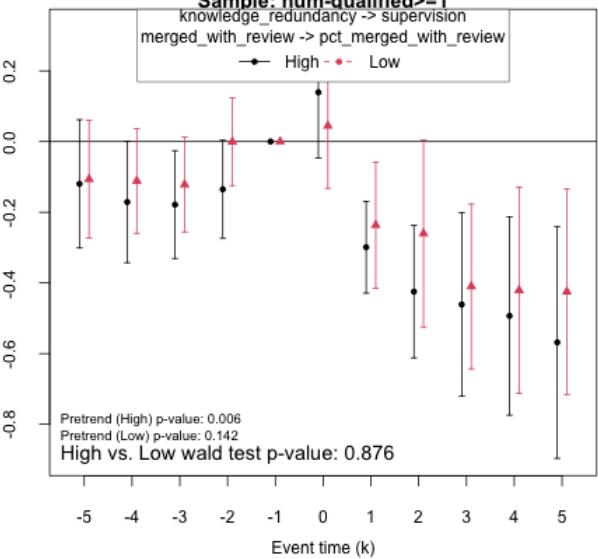


major_minor_release_count rolling5**Sample: num-qualified>=1**knowledge_redundancy-> supervision
merged_with_review -> pct_merged_with_review

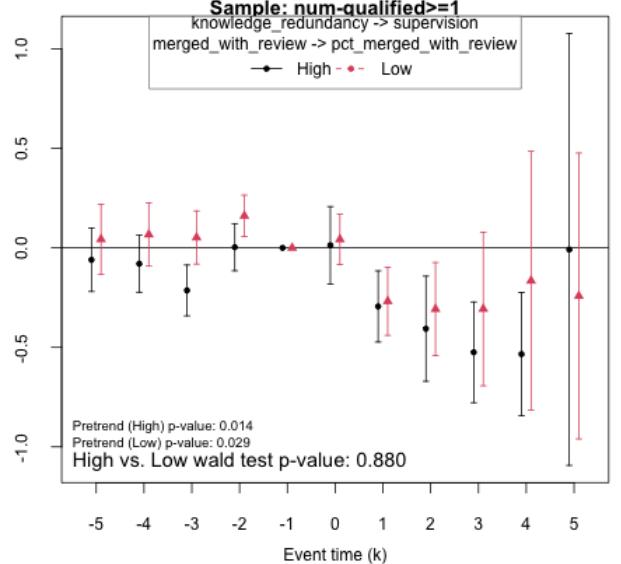
● High - ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**knowledge_redundancy-> supervision
merged_with_review -> pct_merged_with_review

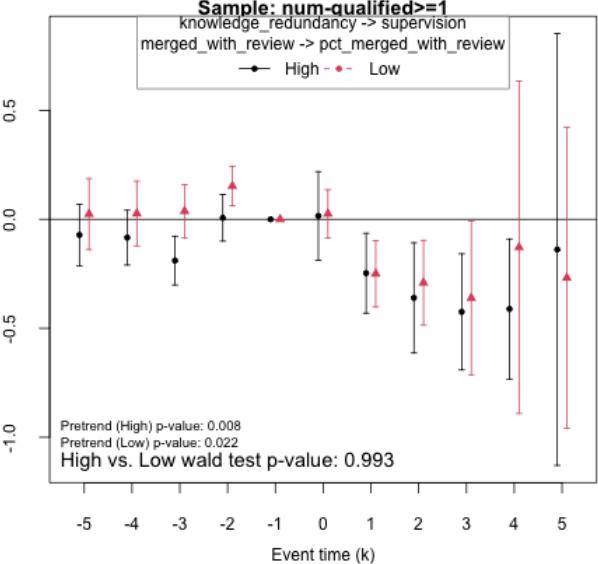
● High - ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**knowledge_redundancy-> supervision
merged_with_review -> pct_merged_with_review

● High - ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**knowledge_redundancy-> supervision
merged_with_review -> pct_merged_with_review

● High - ▲ Low

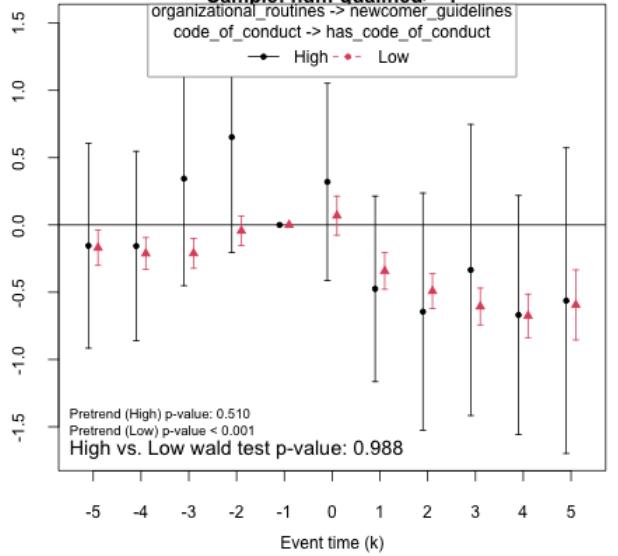


major_minor_release_count rolling5

Sample: num-qualified>=1

organizational_routines -> newcomer_guidelines
code_of_conduct -> has_code_of_conduct

● High ▲ Low

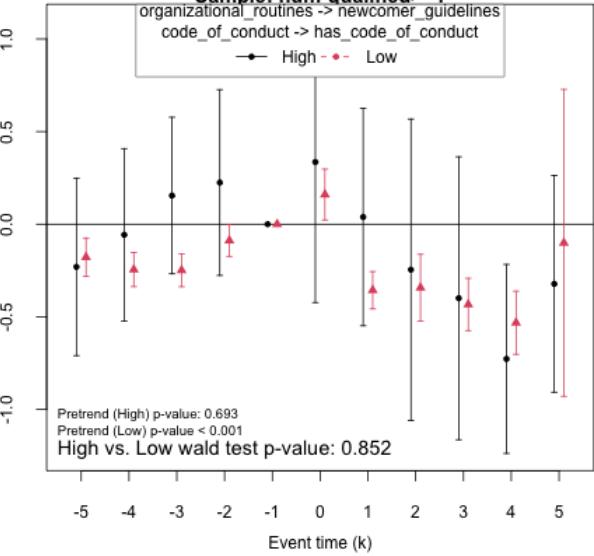


overall_new_release_count rolling5

Sample: num-qualified>=1

organizational_routines -> newcomer_guidelines
code_of_conduct -> has_code_of_conduct

● High ▲ Low

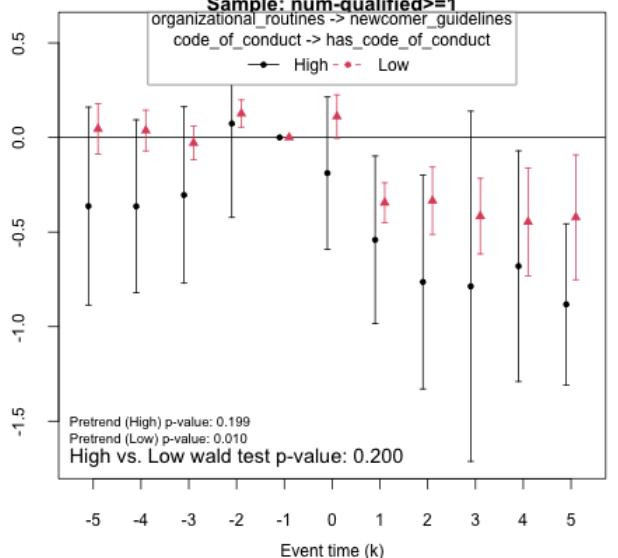


pull_request_merged rolling5

Sample: num-qualified>=1

organizational_routines -> newcomer_guidelines
code_of_conduct -> has_code_of_conduct

● High ▲ Low

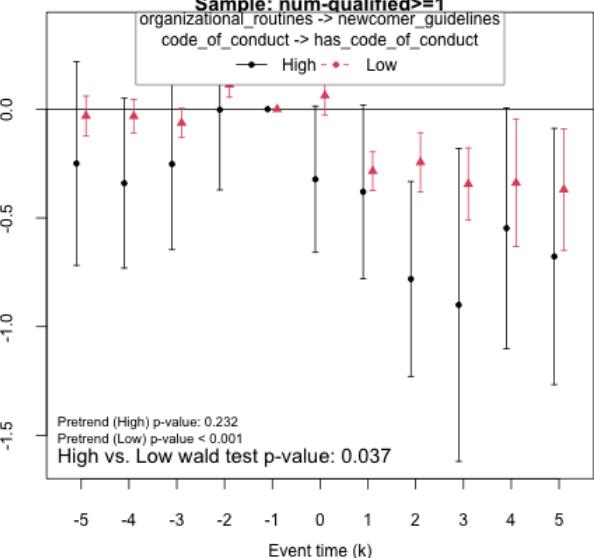


pull_request_opened rolling5

Sample: num-qualified>=1

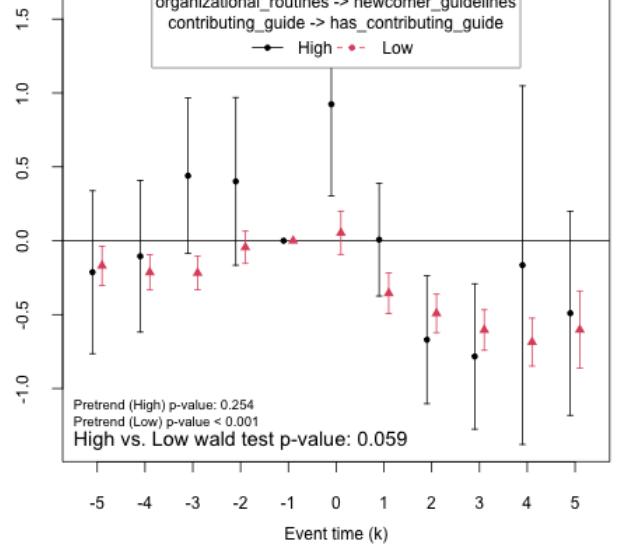
organizational_routines -> newcomer_guidelines
code_of_conduct -> has_code_of_conduct

● High ▲ Low

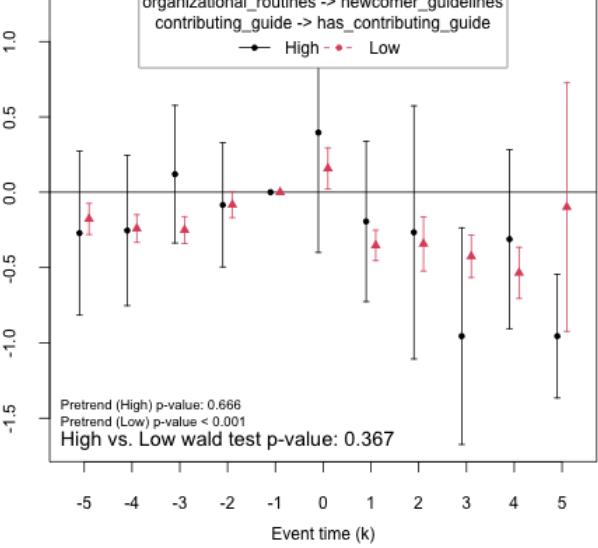


major_minor_release_count rolling5**Sample: num-qualified>=1**organizational_routines -> newcomer_guidelines
contributing_guide -> has_contributing_guide

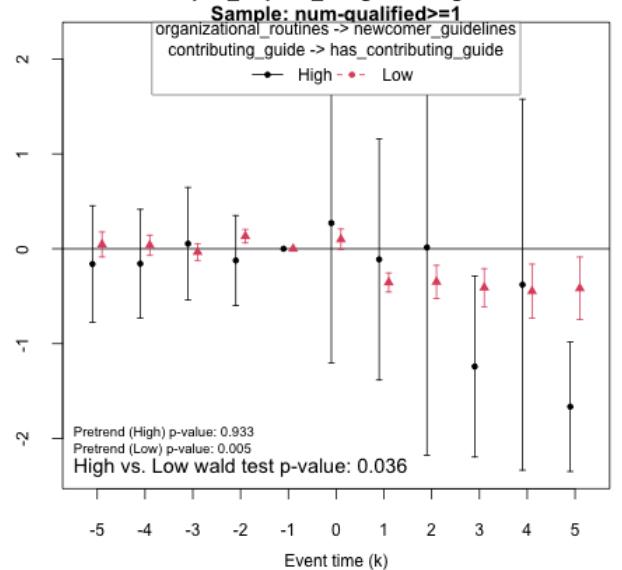
● High ● Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**organizational_routines -> newcomer_guidelines
contributing_guide -> has_contributing_guide

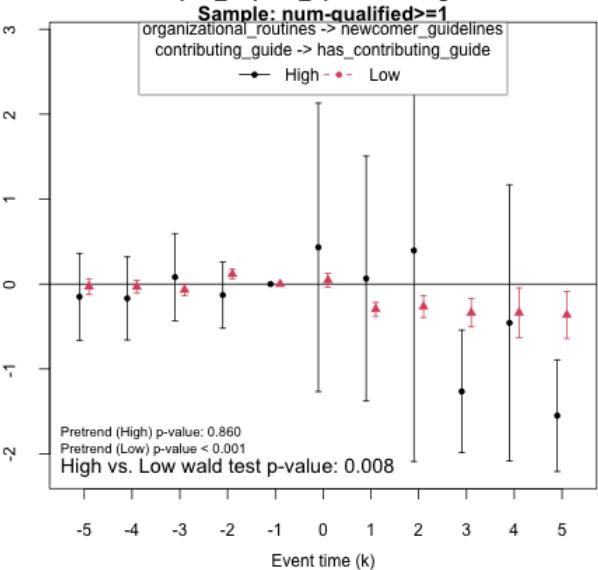
● High ● Low

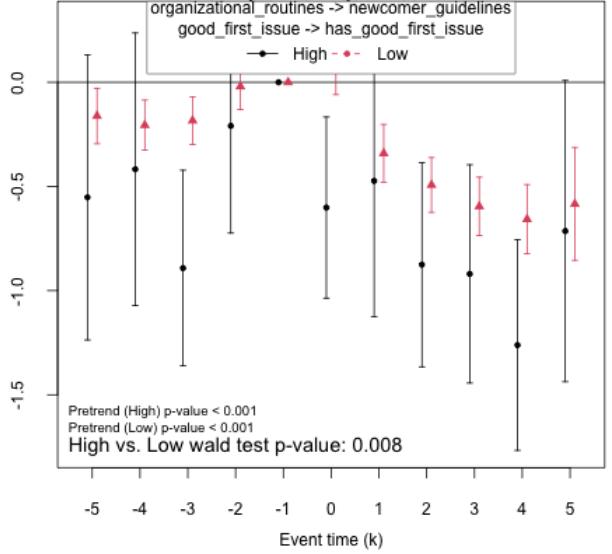
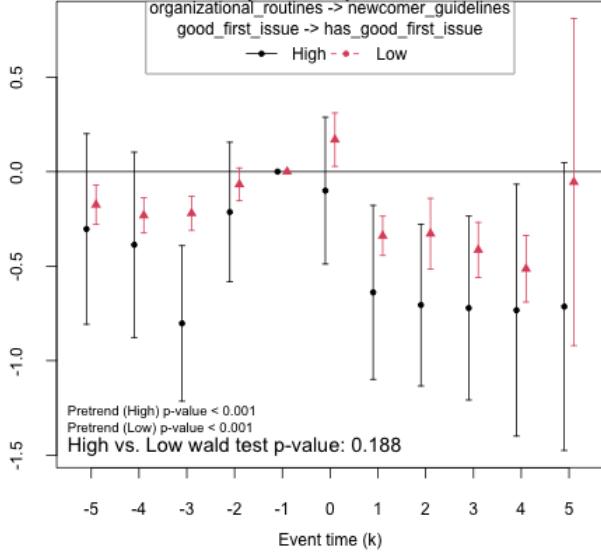
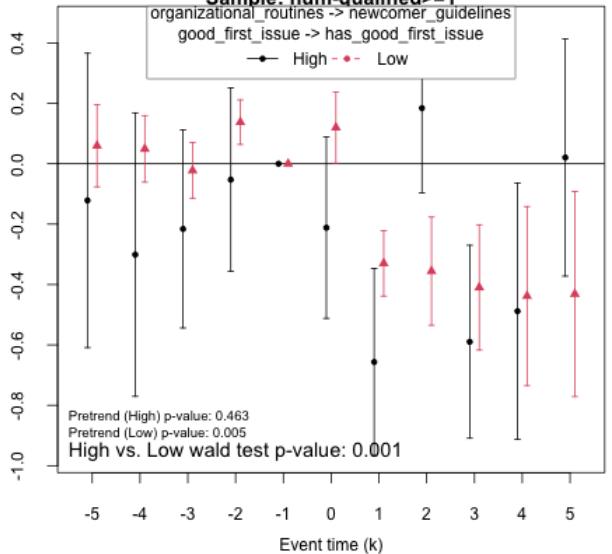
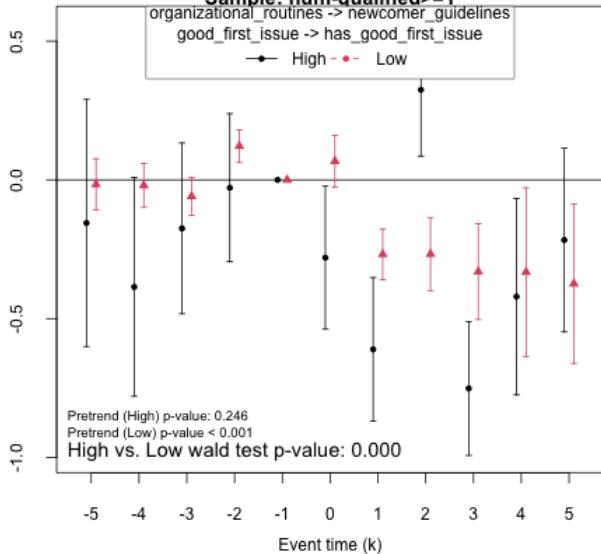
**pull_request_merged rolling5****Sample: num-qualified>=1**organizational_routines -> newcomer_guidelines
contributing_guide -> has_contributing_guide

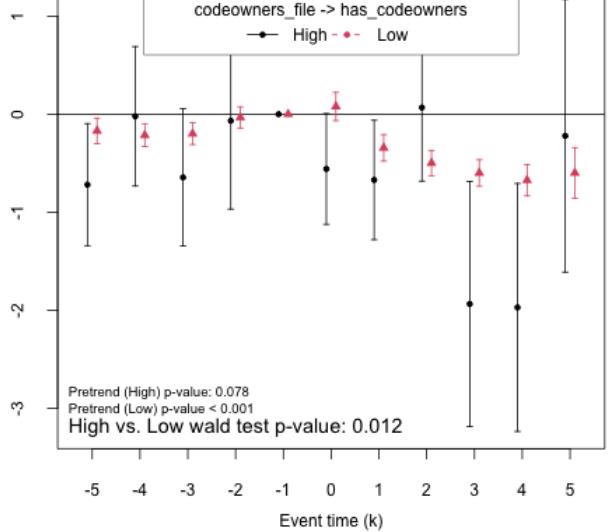
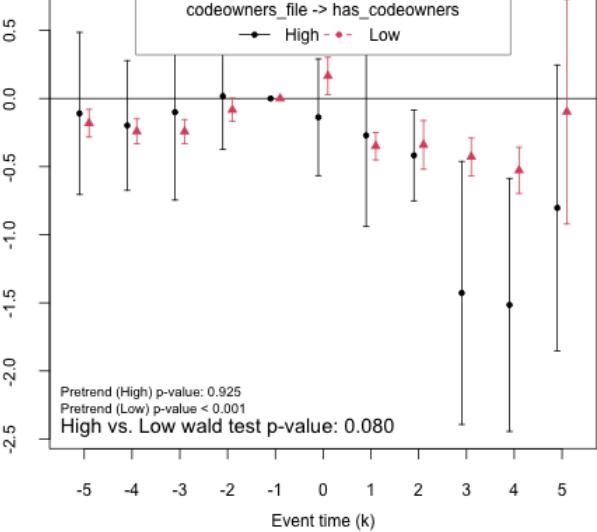
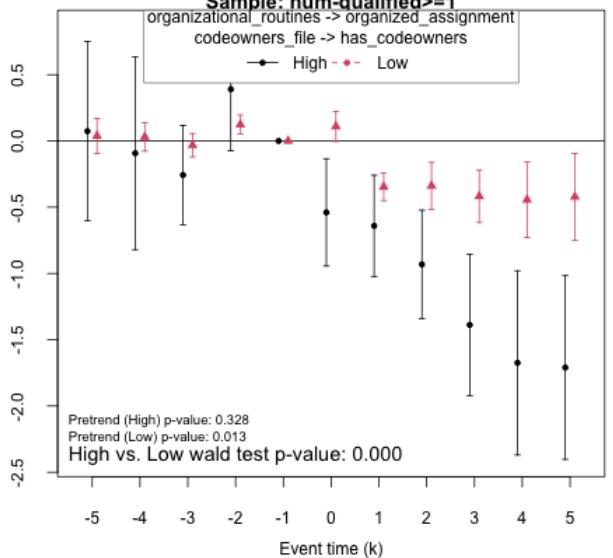
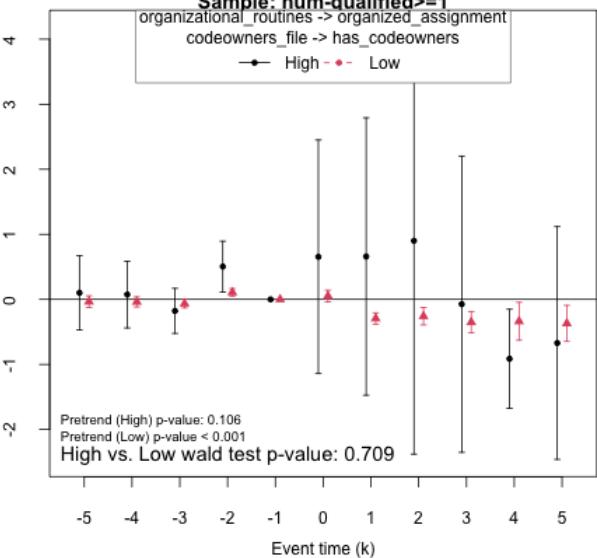
● High ● Low

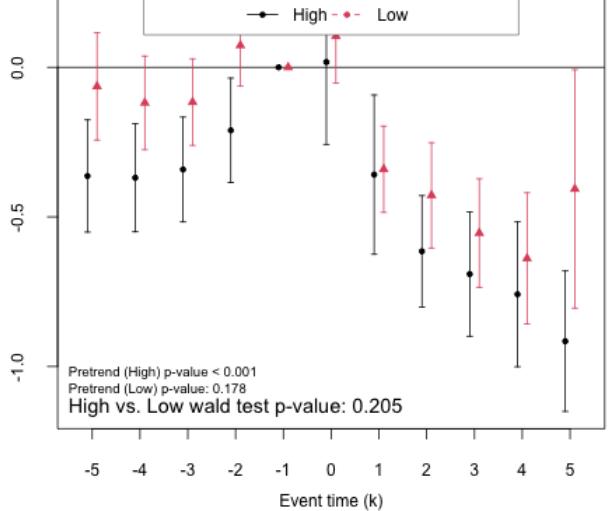
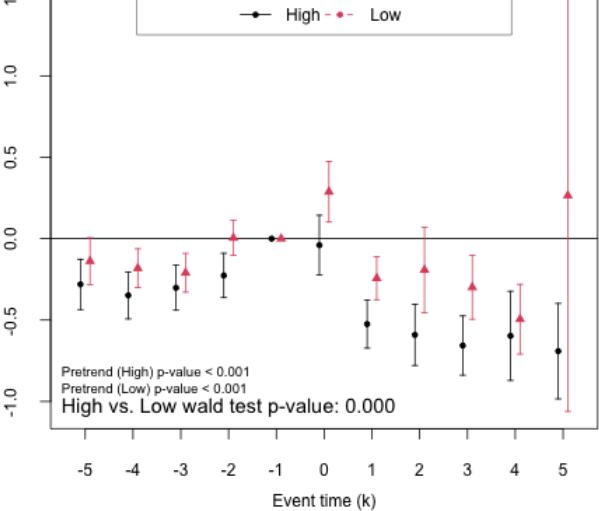
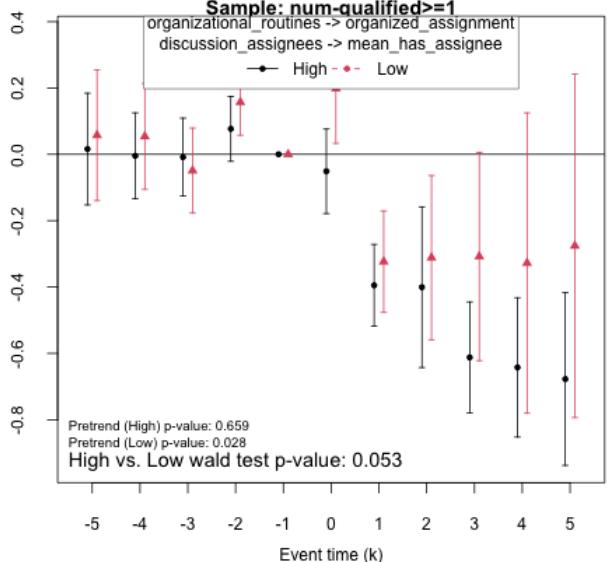
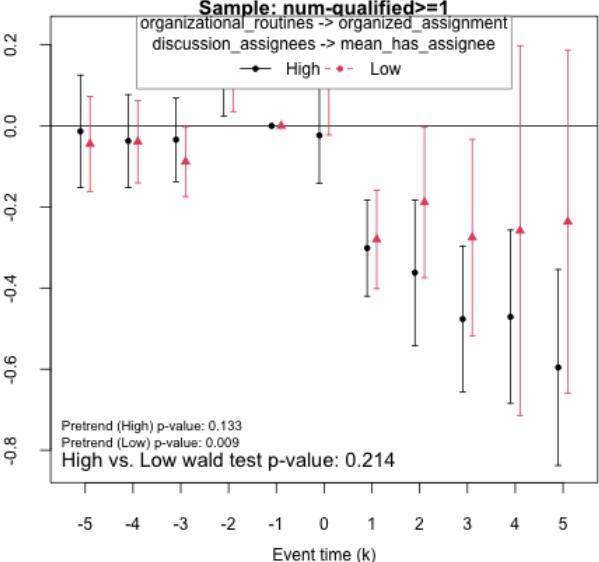
**pull_request_opened rolling5****Sample: num-qualified>=1**organizational_routines -> newcomer_guidelines
contributing_guide -> has_contributing_guide

● High ● Low



major_minor_release_count rolling5**Sample: num-qualified>=1**organizational_routines -> newcomer_guidelines
good_first_issue -> has_good_first_issue**overall_new_release_count rolling5****Sample: num-qualified>=1**organizational_routines -> newcomer_guidelines
good_first_issue -> has_good_first_issue**pull_request_merged rolling5****Sample: num-qualified>=1**organizational_routines -> newcomer_guidelines
good_first_issue -> has_good_first_issue**pull_request_opened rolling5****Sample: num-qualified>=1**organizational_routines -> newcomer_guidelines
good_first_issue -> has_good_first_issue

major_minor_release_count rolling5**Sample: num-qualified>=1**organizational_routines -> organized_assignment
codeowners_file -> has_codeowners**overall_new_release_count rolling5****Sample: num-qualified>=1**organizational_routines -> organized_assignment
codeowners_file -> has_codeowners**pull_request_merged rolling5****Sample: num-qualified>=1**organizational_routines -> organized_assignment
codeowners_file -> has_codeowners**pull_request_opened rolling5****Sample: num-qualified>=1**organizational_routines -> organized_assignment
codeowners_file -> has_codeowners

major_minor_release_count rolling5**Sample: num-qualified>=1**organizational_routines -> organized_assignment
discussion_assignees -> mean_has_assignee**overall_new_release_count rolling5****Sample: num-qualified>=1**organizational_routines -> organized_assignment
discussion_assignees -> mean_has_assignee**pull_request_merged rolling5****Sample: num-qualified>=1**organizational_routines -> organized_assignment
discussion_assignees -> mean_has_assignee**pull_request_opened rolling5****Sample: num-qualified>=1**organizational_routines -> organized_assignment
discussion_assignees -> mean_has_assignee

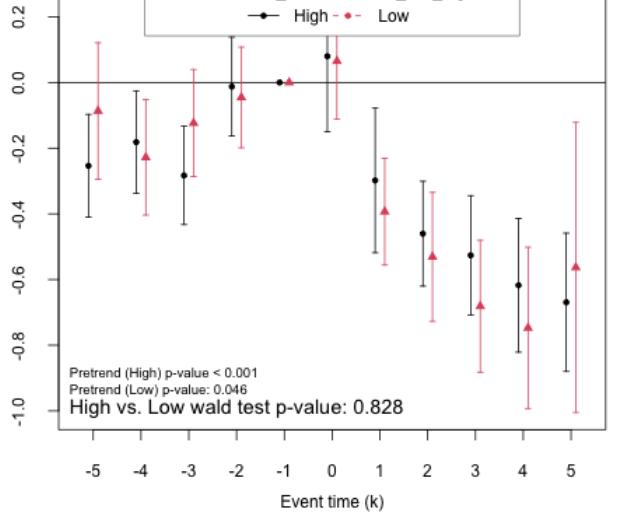
major_minor_release_count rolling5

Sample: num-qualified>=1

organizational_routines -> organized_assignment

discussion_labels -> mean_has_tag

● High ▲ Low



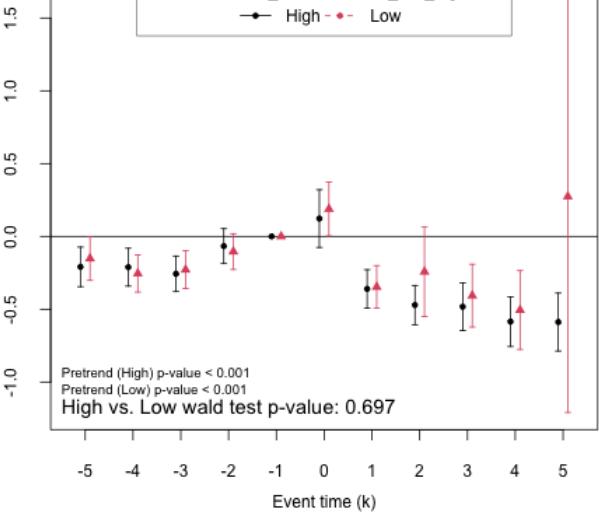
overall_new_release_count rolling5

Sample: num-qualified>=1

organizational_routines -> organized_assignment

discussion_labels -> mean_has_tag

● High ▲ Low



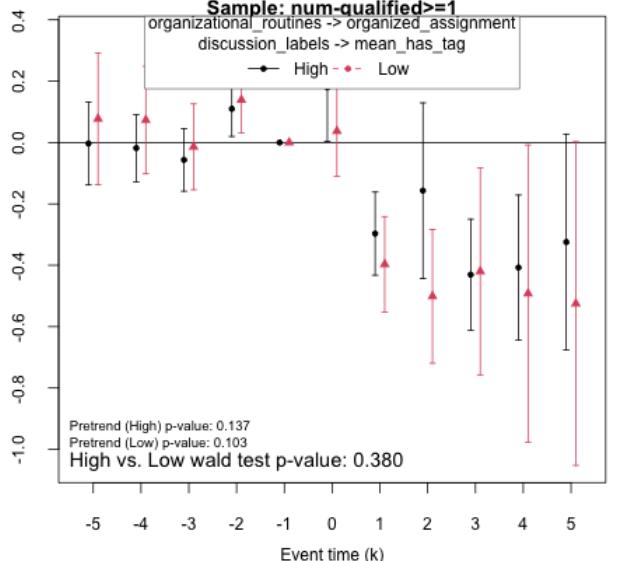
pull_request_merged rolling5

Sample: num-qualified>=1

organizational_routines -> organized_assignment

discussion_labels -> mean_has_tag

● High ▲ Low



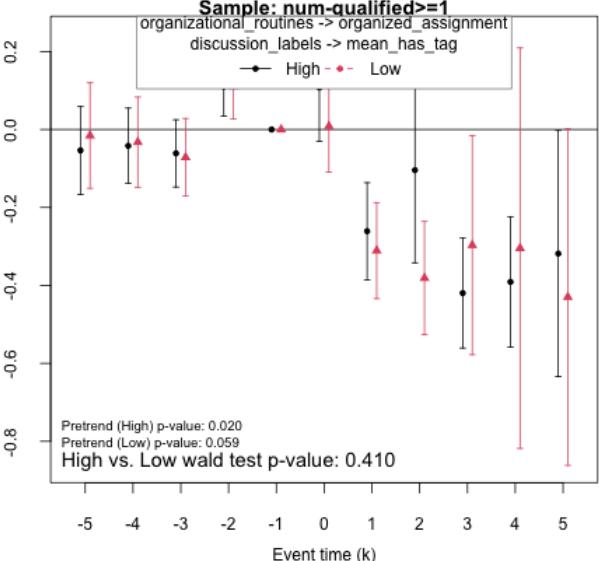
pull_request_opened rolling5

Sample: num-qualified>=1

organizational_routines -> organized_assignment

discussion_labels -> mean_has_tag

● High ▲ Low



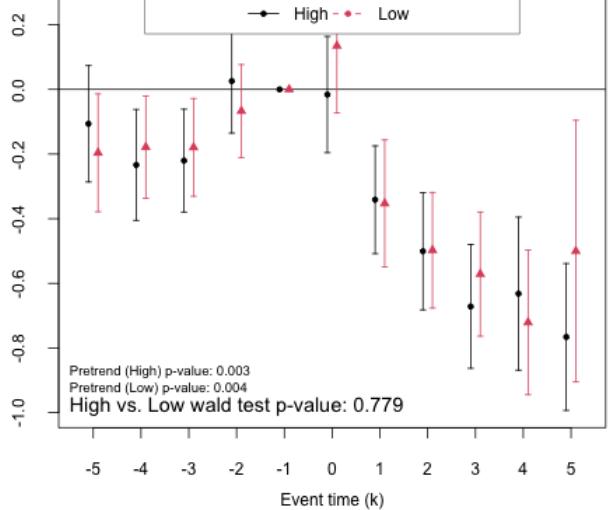
major_minor_release_count rolling5

Sample: num-qualified>=1

organizational_routines -> organized_assignment

pr_reviewers -> mean_has_reviewer

● High - ▲ Low



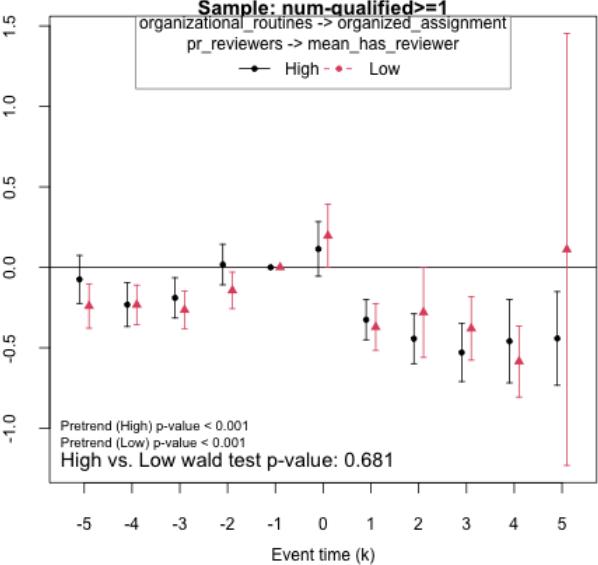
overall_new_release_count rolling5

Sample: num-qualified>=1

organizational_routines -> organized_assignment

pr_reviewers -> mean_has_reviewer

● High - ▲ Low



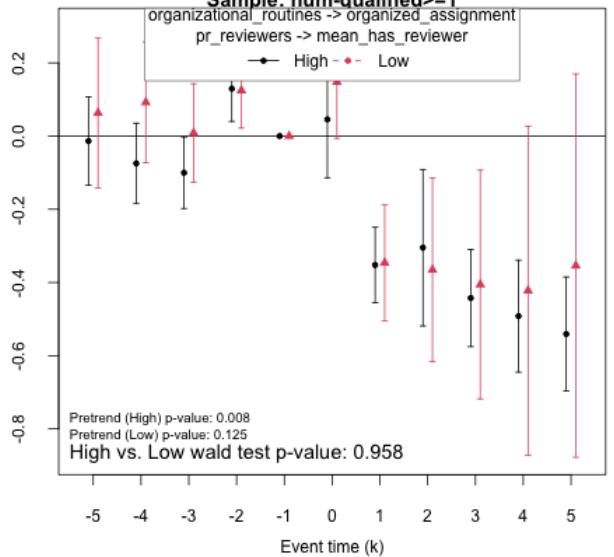
pull_request_merged rolling5

Sample: num-qualified>=1

organizational_routines -> organized_assignment

pr_reviewers -> mean_has_reviewer

● High - ▲ Low



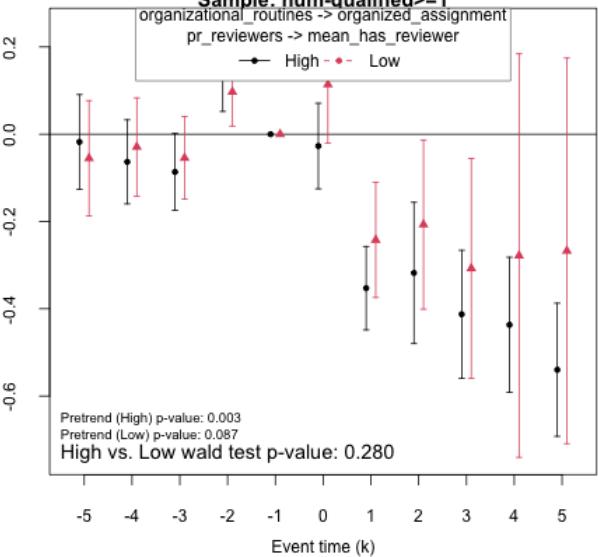
pull_request_opened rolling5

Sample: num-qualified>=1

organizational_routines -> organized_assignment

pr_reviewers -> mean_has_reviewer

● High - ▲ Low



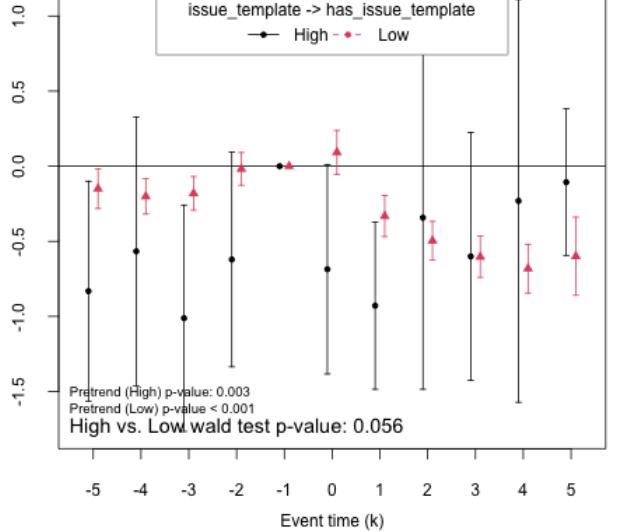
major_minor_release_count rolling5

Sample: num-qualified>=1

organizational_routines -> organized_inquiries

issue_template -> has_issue_template

—●— High —●— Low



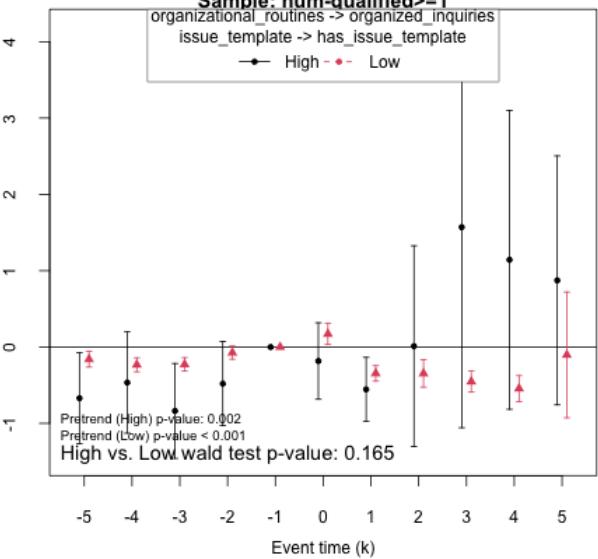
overall_new_release_count rolling5

Sample: num-qualified>=1

organizational_routines -> organized_inquiries

issue_template -> has_issue_template

—●— High —●— Low



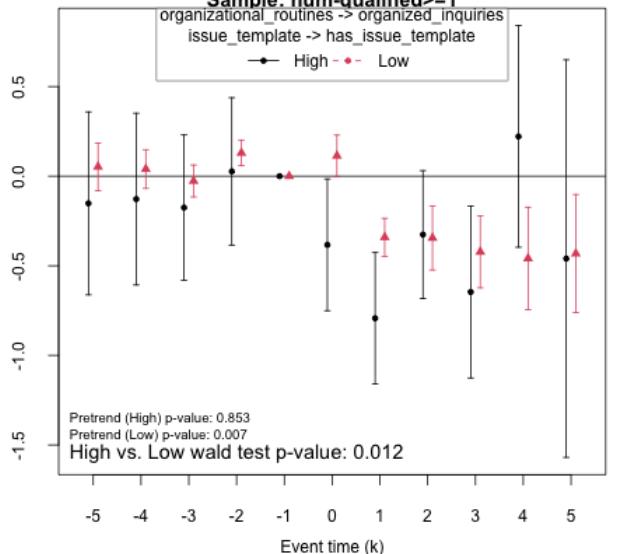
pull_request_merged rolling5

Sample: num-qualified>=1

organizational_routines -> organized_inquiries

issue_template -> has_issue_template

—●— High —●— Low



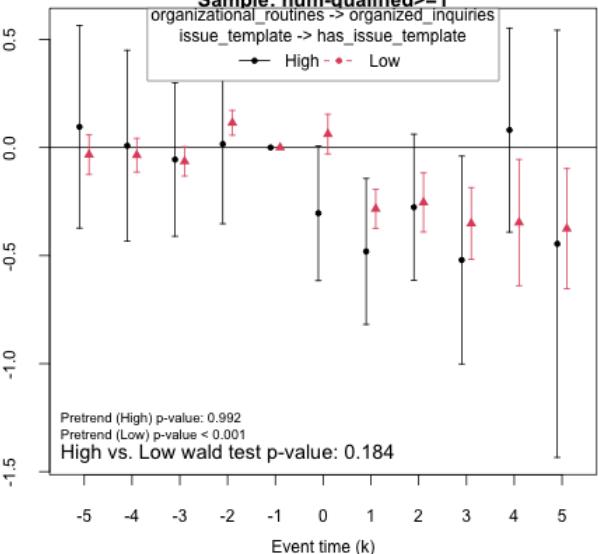
pull_request_opened rolling5

Sample: num-qualified>=1

organizational_routines -> organized_inquiries

issue_template -> has_issue_template

—●— High —●— Low

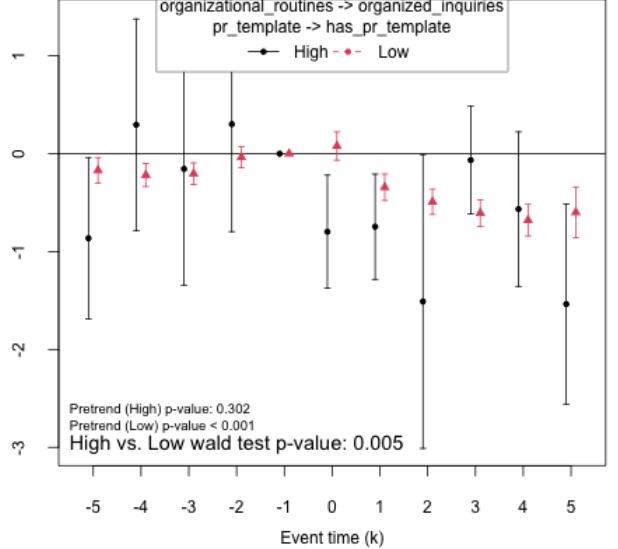


major_minor_release_count rolling5**Sample: num-qualified>=1**

organizational_routines -> organized_inquiries

pr_template -> has_pr_template

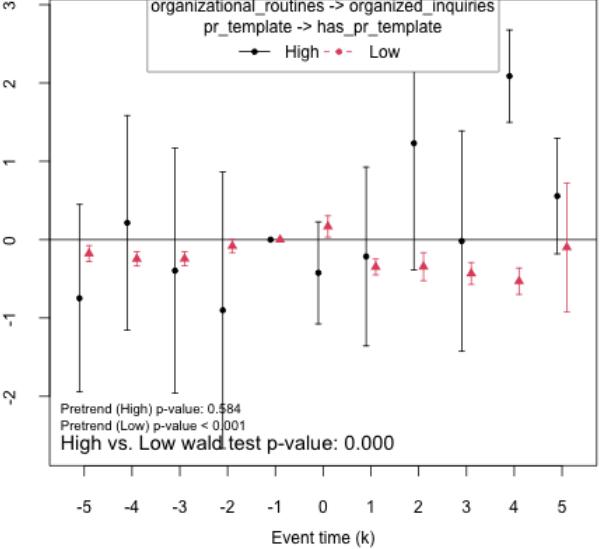
● High - ● Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**

organizational_routines -> organized_inquiries

pr_template -> has_pr_template

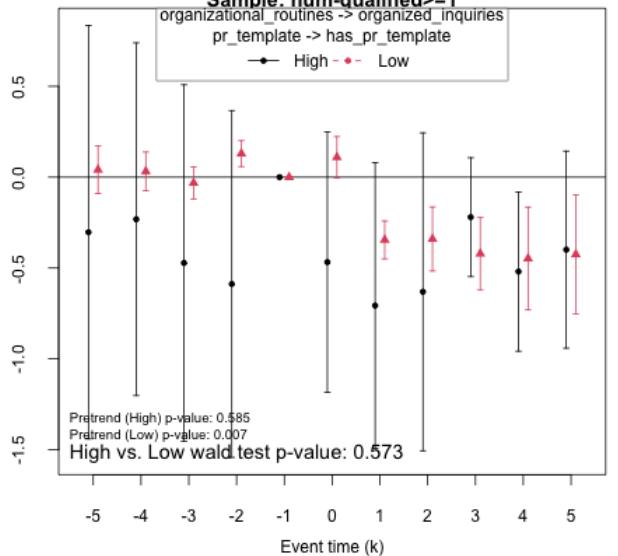
● High - ● Low

**pull_request_merged rolling5****Sample: num-qualified>=1**

organizational_routines -> organized_inquiries

pr_template -> has_pr_template

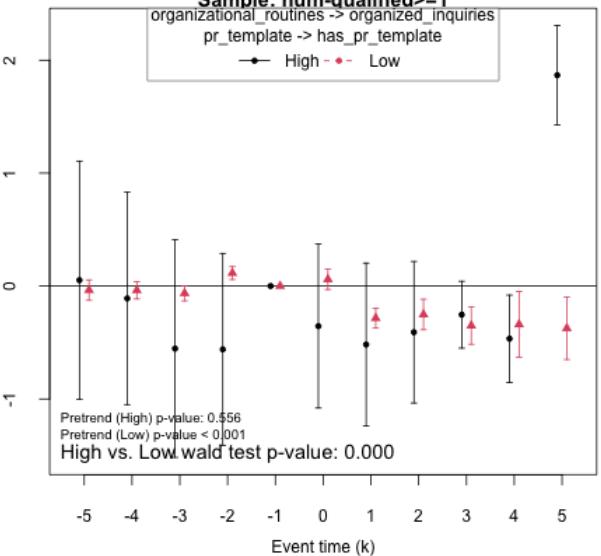
● High - ● Low

**pull_request_opened rolling5****Sample: num-qualified>=1**

organizational_routines -> organized_inquiries

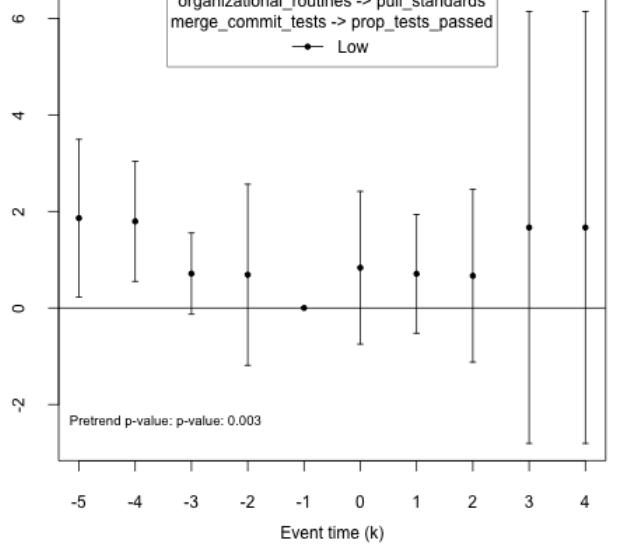
pr_template -> has_pr_template

● High - ● Low

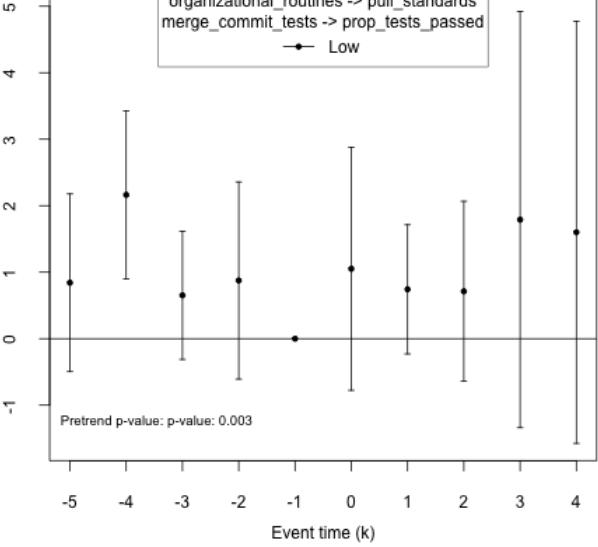


major_minor_release_count rolling5**Sample: num-qualified>=1**

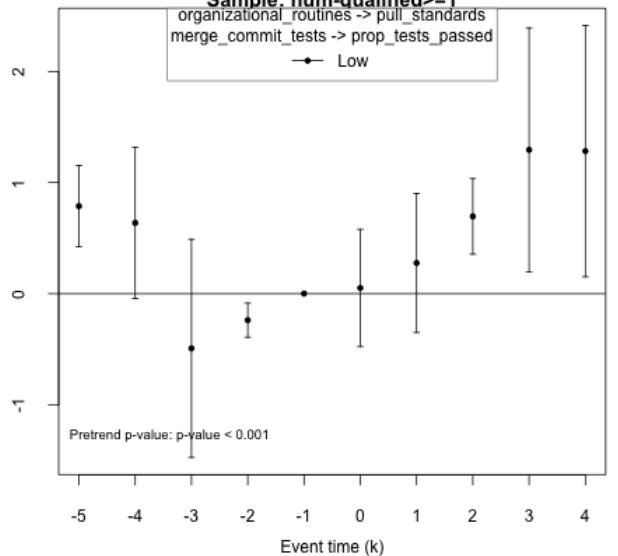
organizational_routines -> pull_standards
 merge_commit_tests -> prop_tests_passed
 ● Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**

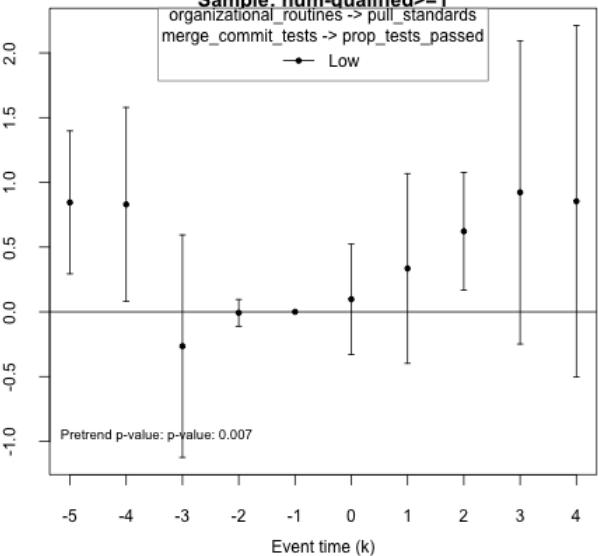
organizational_routines -> pull_standards
 merge_commit_tests -> prop_tests_passed
 ● Low

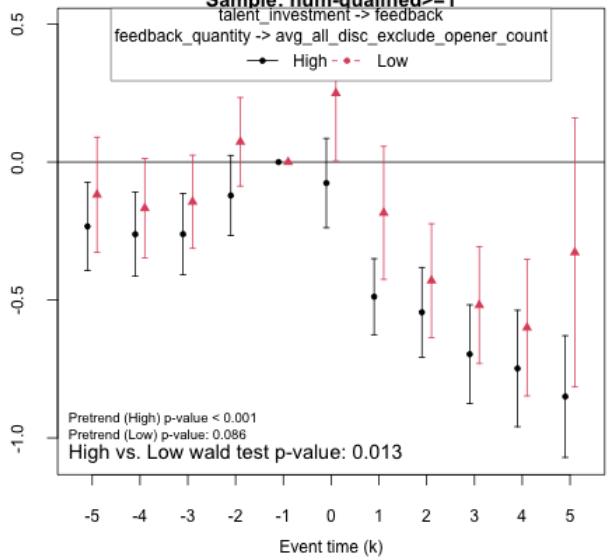
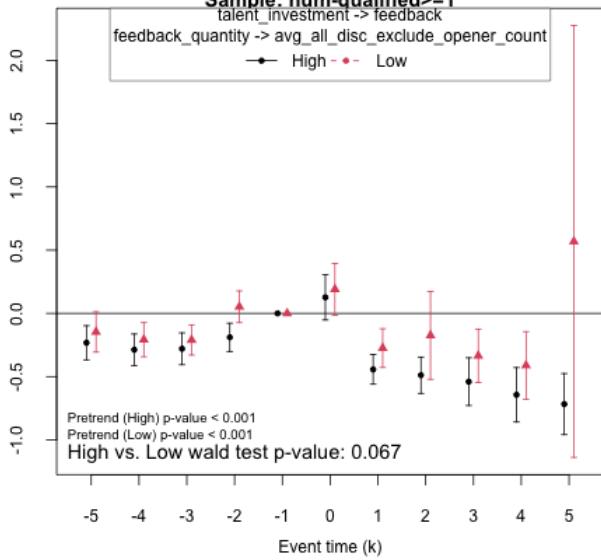
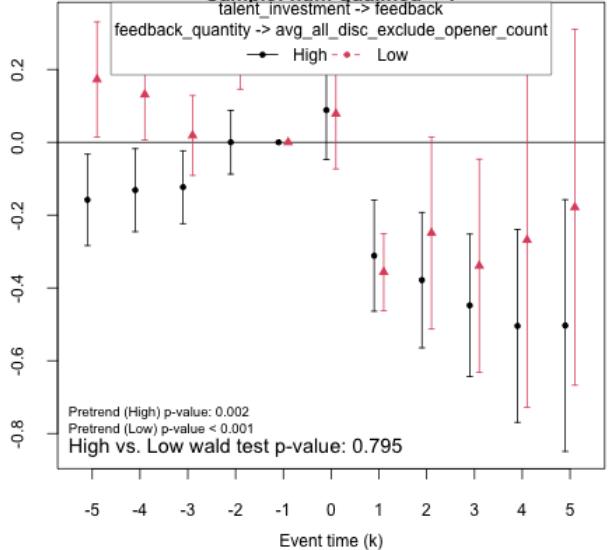
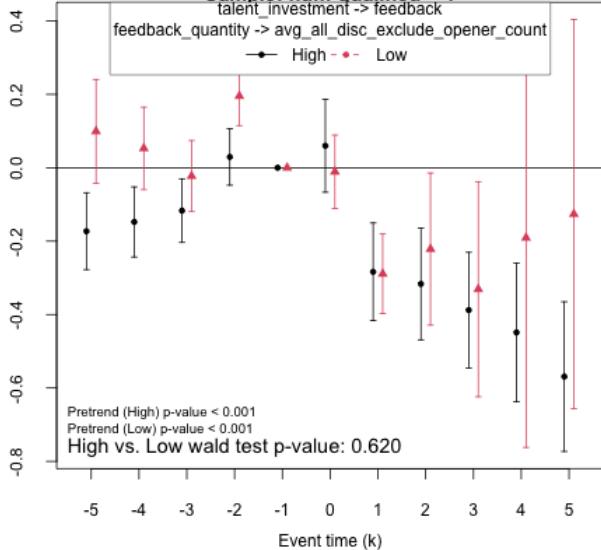
**pull_request_merged rolling5****Sample: num-qualified>=1**

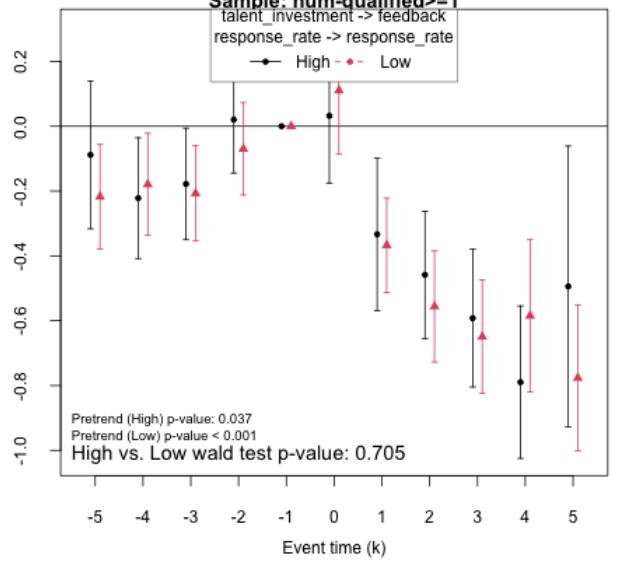
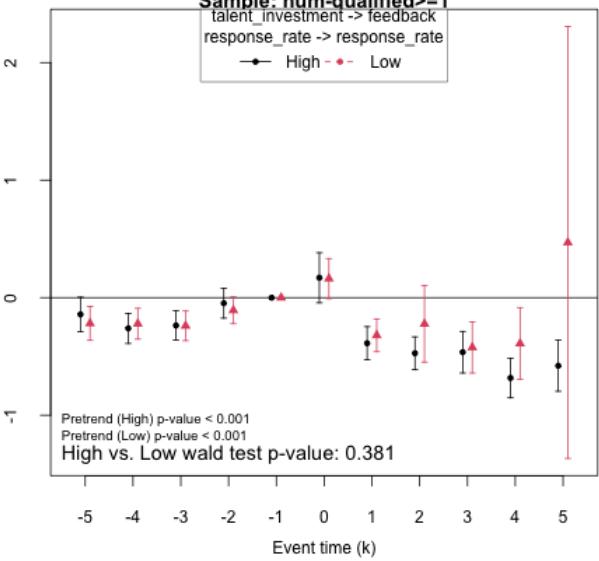
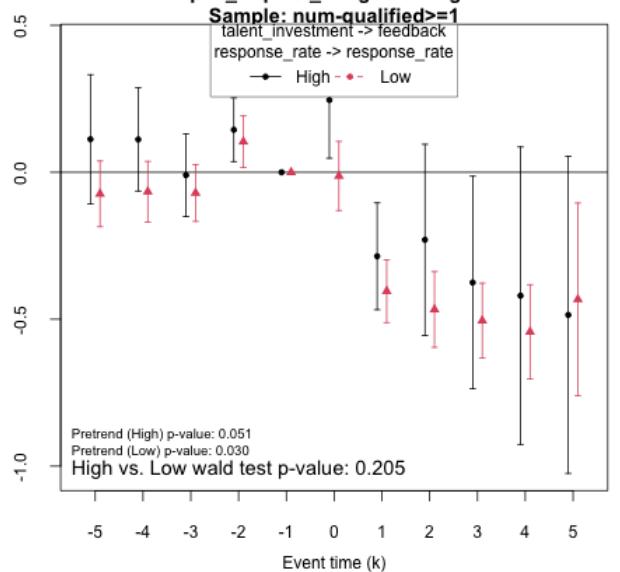
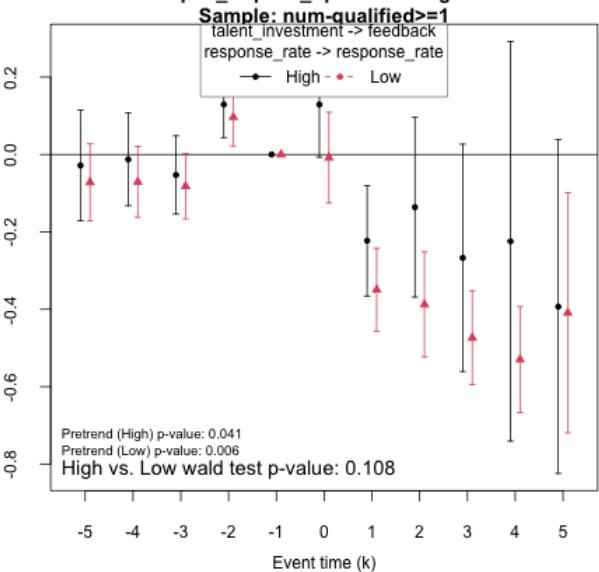
organizational_routines -> pull_standards
 merge_commit_tests -> prop_tests_passed
 ● Low

**pull_request_opened rolling5****Sample: num-qualified>=1**

organizational_routines -> pull_standards
 merge_commit_tests -> prop_tests_passed
 ● Low

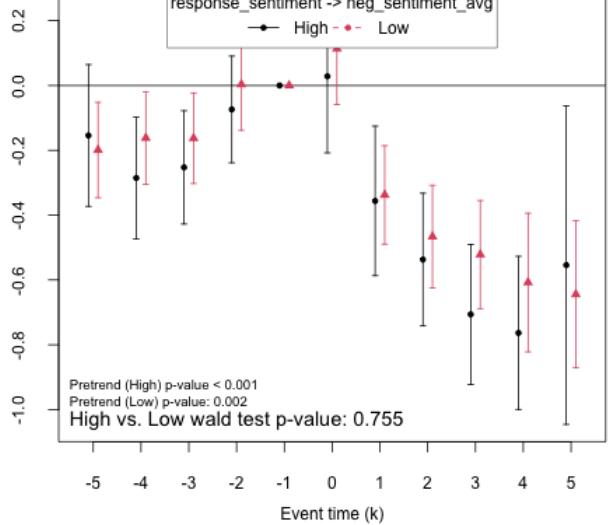


major_minor_release_count rolling5**Sample: num-qualified>=1**talent_investment-> feedback
feedback_quantity -> avg_all_disc_exclude_opener_count**overall_new_release_count rolling5****Sample: num-qualified>=1**talent_investment-> feedback
feedback_quantity -> avg_all_disc_exclude_opener_count**pull_request_merged rolling5****Sample: num-qualified>=1**talent_investment-> feedback
feedback_quantity -> avg_all_disc_exclude_opener_count**pull_request_opened rolling5****Sample: num-qualified>=1**talent_investment-> feedback
feedback_quantity -> avg_all_disc_exclude_opener_count

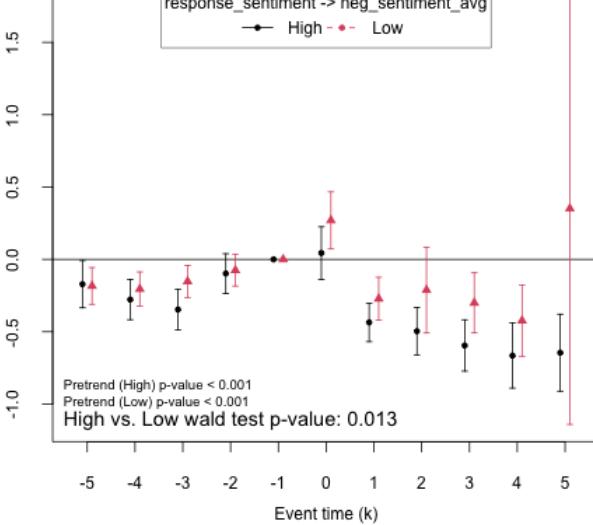
major_minor_release_count rolling5**Sample: num-qualified>=1****overall_new_release_count rolling5****Sample: num-qualified>=1****pull_request_merged rolling5****Sample: num-qualified>=1****pull_request_opened rolling5****Sample: num-qualified>=1**

major_minor_release_count rolling5**Sample: num-qualified>=1**

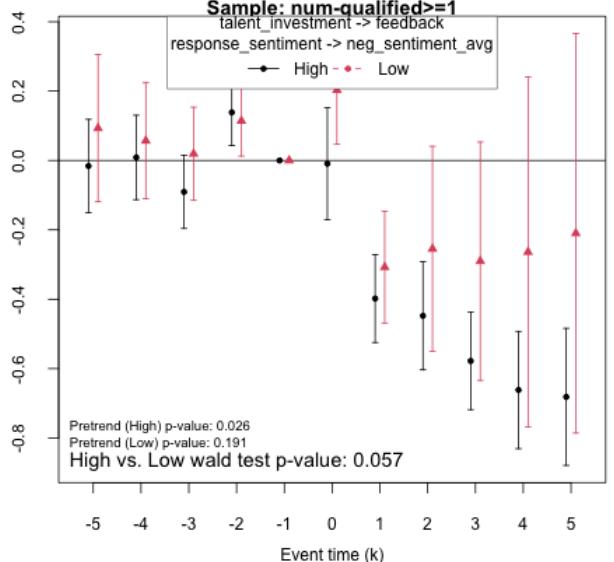
talent_investment -> feedback
 response_sentiment -> neg_sentiment_avg
 ● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**

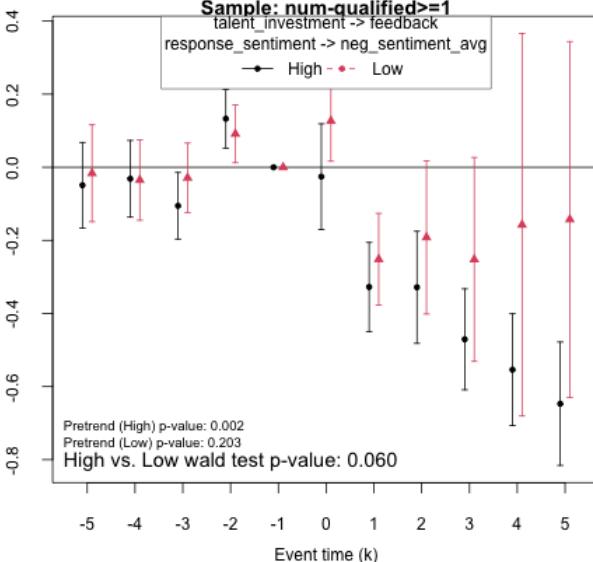
talent_investment -> feedback
 response_sentiment -> neg_sentiment_avg
 ● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**

talent_investment -> feedback
 response_sentiment -> neg_sentiment_avg
 ● High ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**

talent_investment -> feedback
 response_sentiment -> neg_sentiment_avg
 ● High ▲ Low

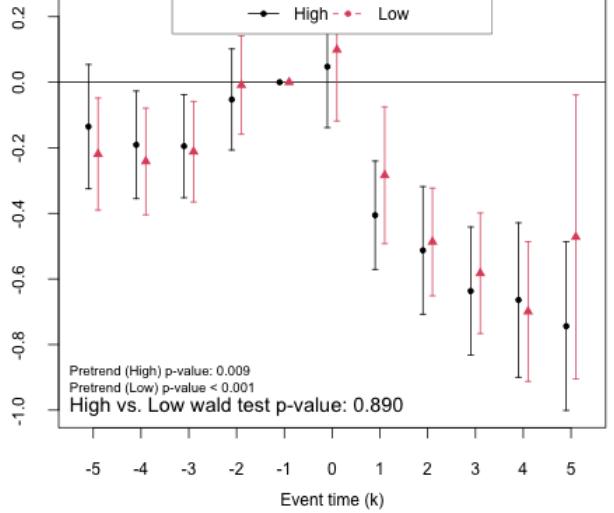


major_minor_release_count rolling5**Sample: num-qualified>=1**

talent_investment -> feedback

response_sentiment -> ov_sentiment_avg

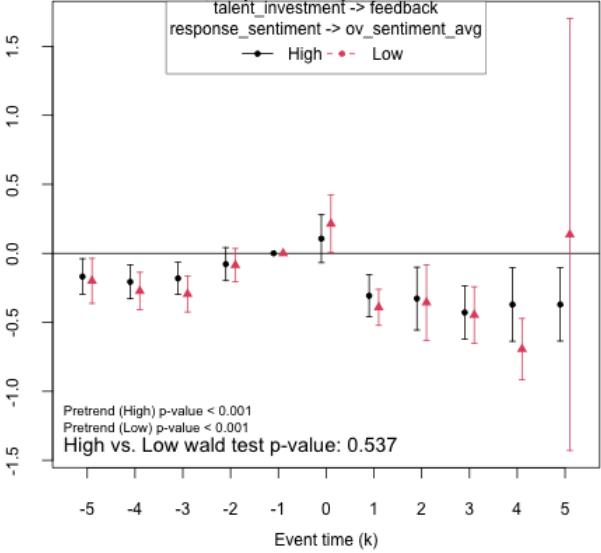
● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**

talent_investment -> feedback

response_sentiment -> ov_sentiment_avg

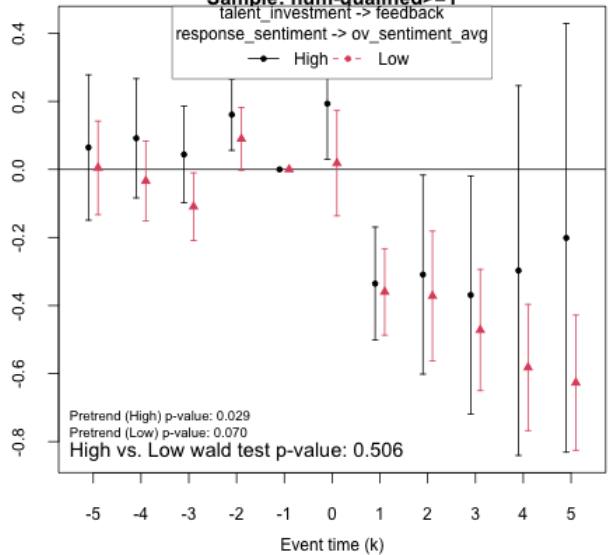
● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**

talent_investment -> feedback

response_sentiment -> ov_sentiment_avg

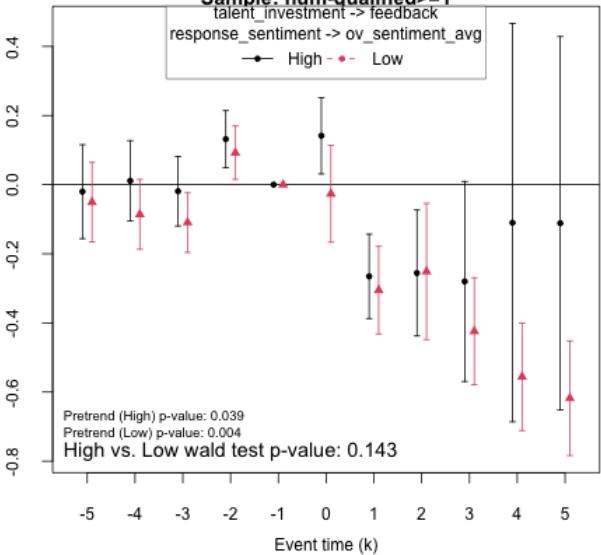
● High ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**

talent_investment -> feedback

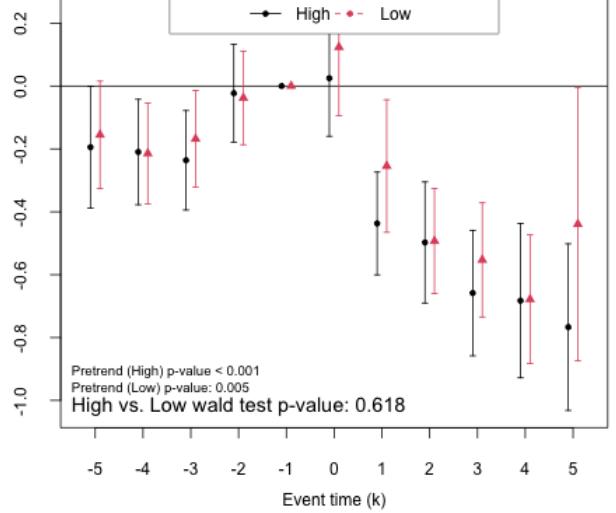
response_sentiment -> ov_sentiment_avg

● High ▲ Low

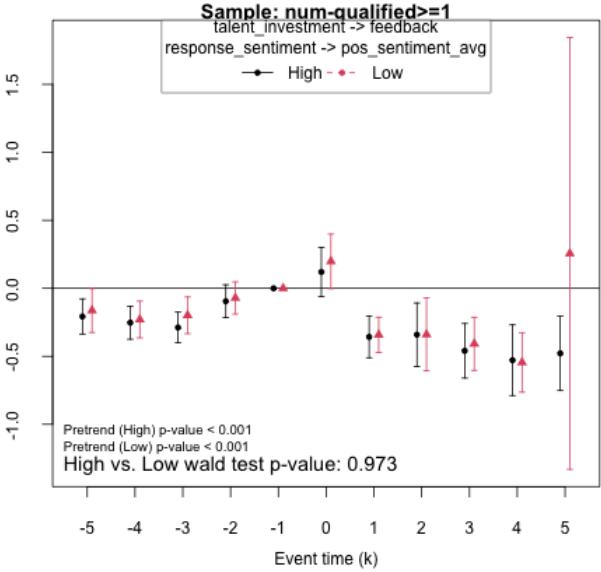


major_minor_release_count rolling5**Sample: num-qualified>=1**

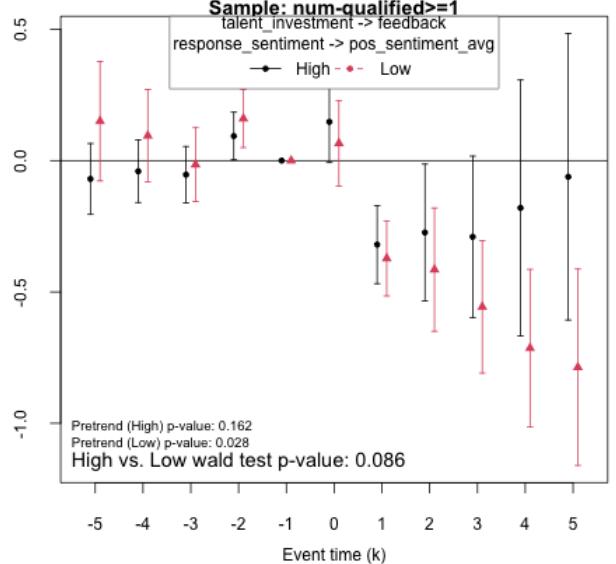
talent_investment -> feedback
 response_sentiment -> pos_sentiment_avg
 ● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**

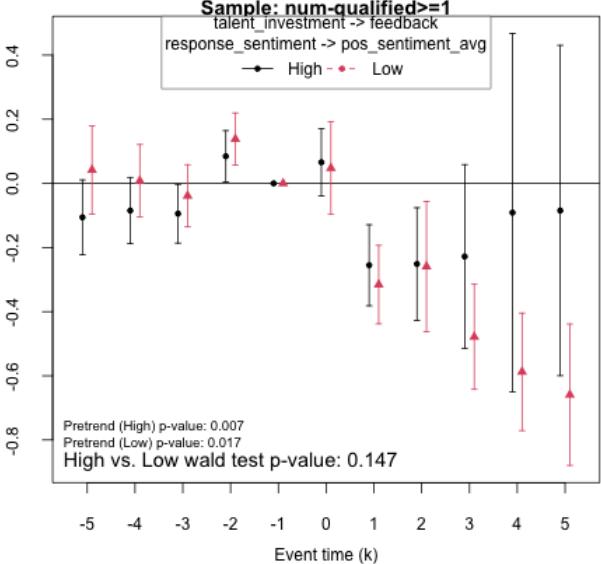
talent_investment -> feedback
 response_sentiment -> pos_sentiment_avg
 ● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**

talent_investment -> feedback
 response_sentiment -> pos_sentiment_avg
 ● High ▲ Low

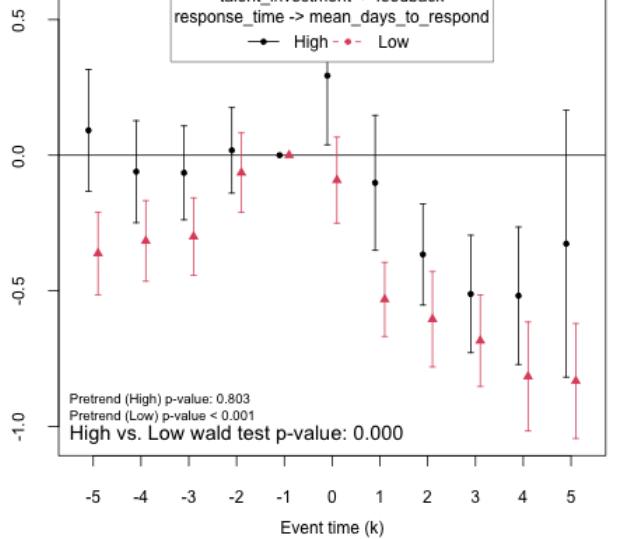
**pull_request_opened rolling5****Sample: num-qualified>=1**

talent_investment -> feedback
 response_sentiment -> pos_sentiment_avg
 ● High ▲ Low

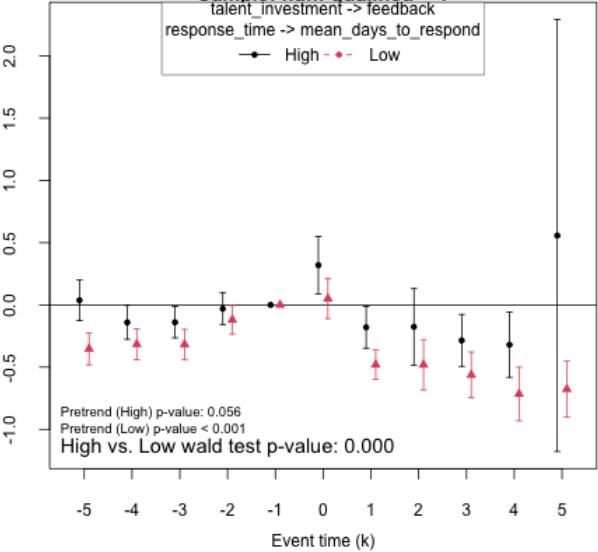


major_minor_release_count rolling5**Sample: num-qualified>=1**talent_investment -> feedback
response_time -> mean_days_to_respond

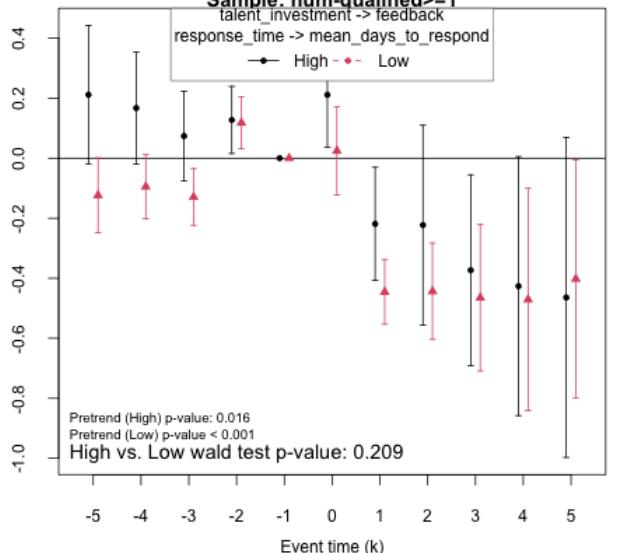
● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**talent_investment -> feedback
response_time -> mean_days_to_respond

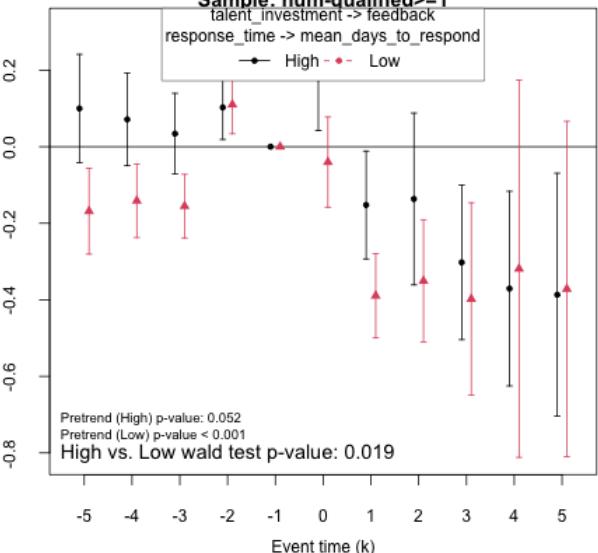
● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**talent_investment -> feedback
response_time -> mean_days_to_respond

● High ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**talent_investment -> feedback
response_time -> mean_days_to_respond

● High ▲ Low

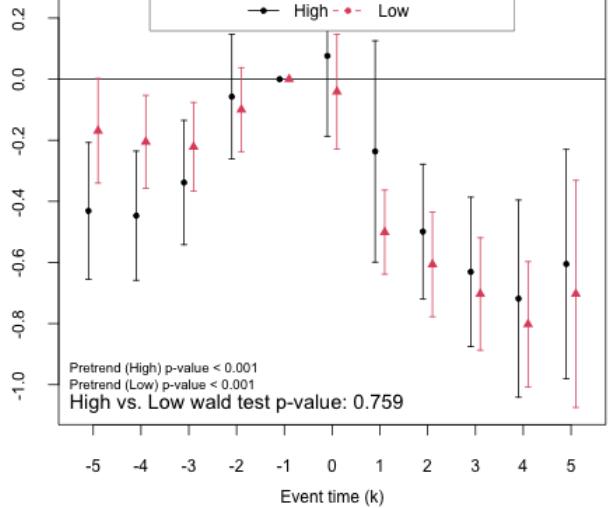


major_minor_release_count rolling5

Sample: num-qualified>=1

talent_investment->growth_opportunity
merge_review_pr -> any_activity_rate_weighted

● High ▲ Low

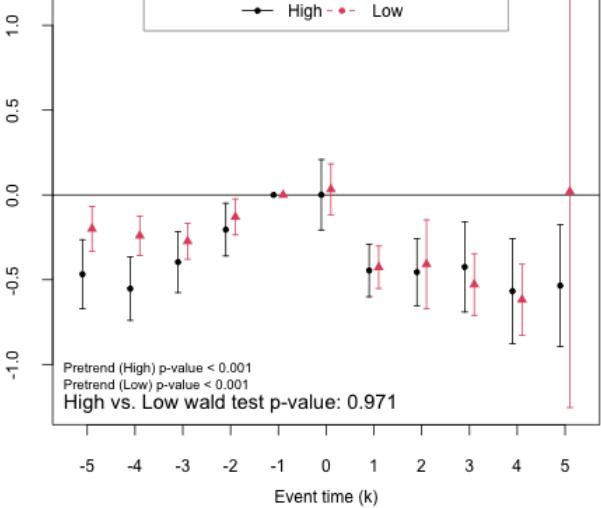


overall_new_release_count rolling5

Sample: num-qualified>=1

talent_investment->growth_opportunity
merge_review_pr -> any_activity_rate_weighted

● High ▲ Low

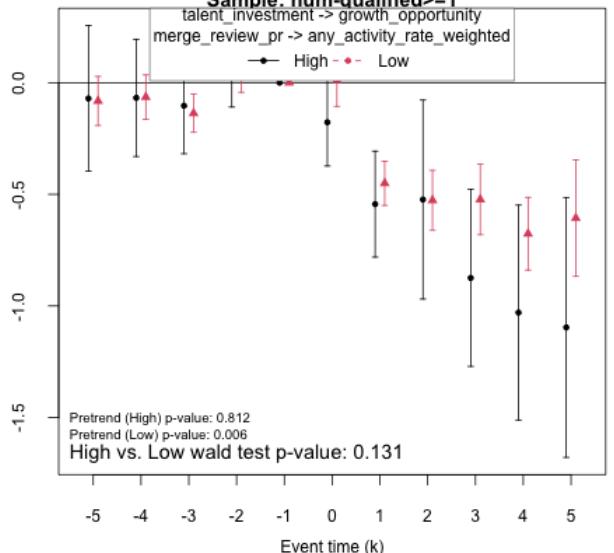


pull_request_merged rolling5

Sample: num-qualified>=1

talent_investment->growth_opportunity
merge_review_pr -> any_activity_rate_weighted

● High ▲ Low

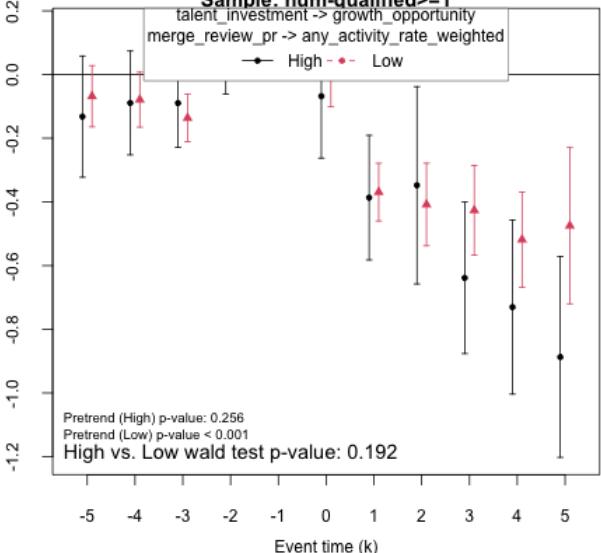


pull_request_opened rolling5

Sample: num-qualified>=1

talent_investment->growth_opportunity
merge_review_pr -> any_activity_rate_weighted

● High ▲ Low

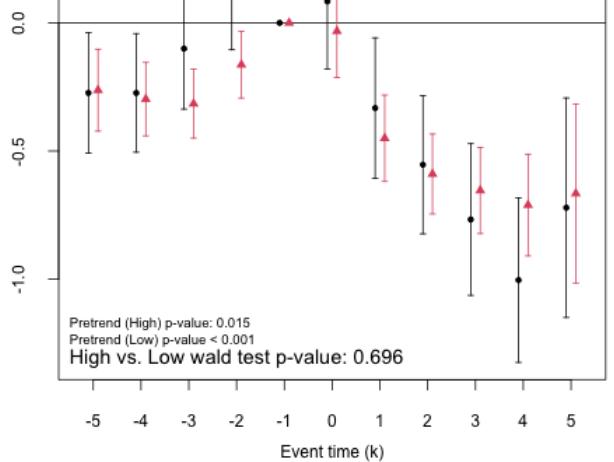


major_minor_release_count rolling5

Sample: num-qualified>=1

talent_investment -> growth_opportunity
merge_review_pr -> pull_request_merged_rate_weighted

● High ▲ Low

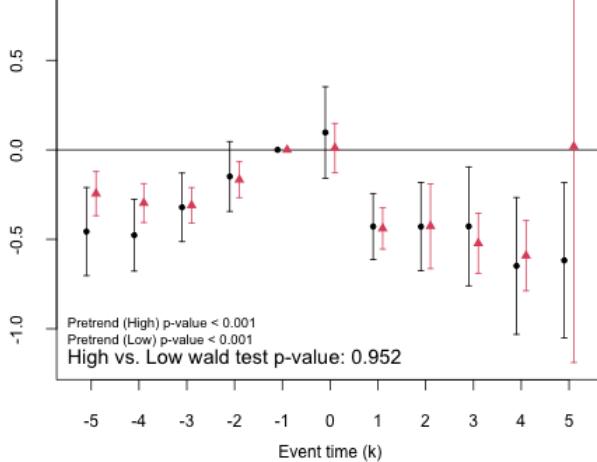


overall_new_release_count rolling5

Sample: num-qualified>=1

talent_investment -> growth_opportunity
merge_review_pr -> pull_request_merged_rate_weighted

● High ▲ Low

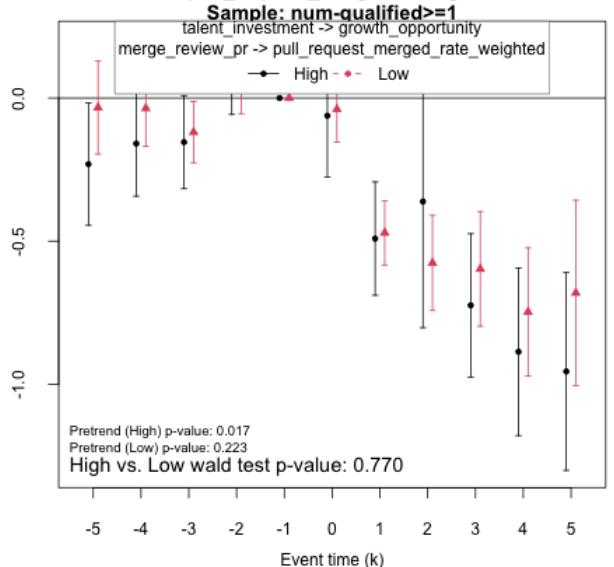


pull_request_merged rolling5

Sample: num-qualified>=1

talent_investment -> growth_opportunity
merge_review_pr -> pull_request_merged_rate_weighted

● High ▲ Low

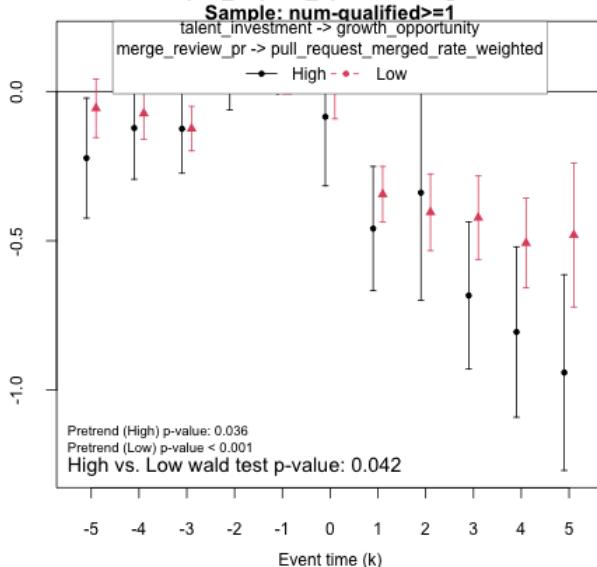


pull_request_opened rolling5

Sample: num-qualified>=1

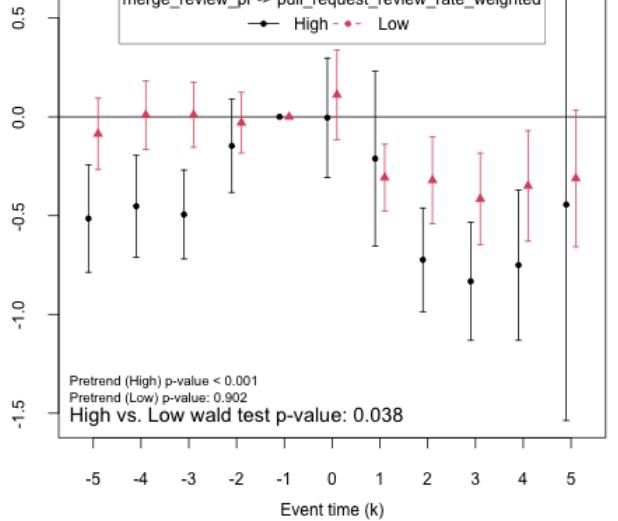
talent_investment -> growth_opportunity
merge_review_pr -> pull_request_merged_rate_weighted

● High ▲ Low

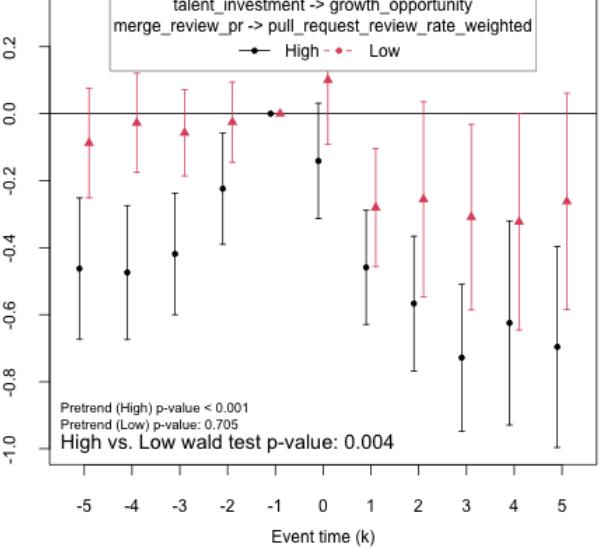


major_minor_release_count rolling5**Sample: num-qualified>=1**talent_investment->growth_opportunity
merge_review_pr -> pull_request_review_rate_weighted

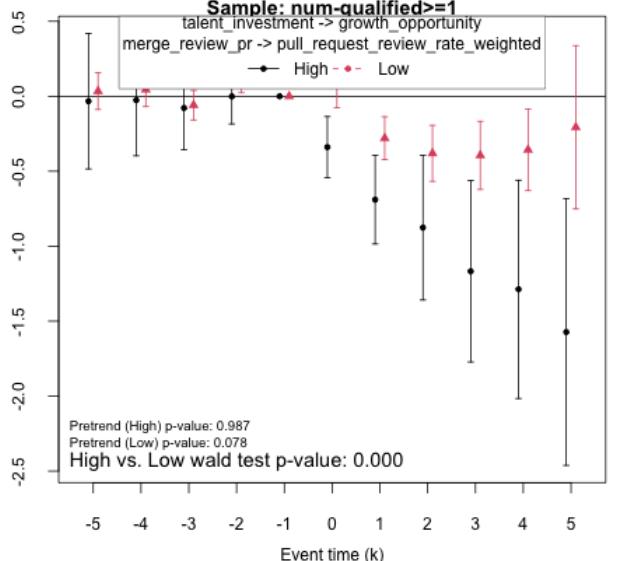
● High ▲ Low

**overall_new_release_count rolling5****Sample: num-qualified>=1**talent_investment->growth_opportunity
merge_review_pr -> pull_request_review_rate_weighted

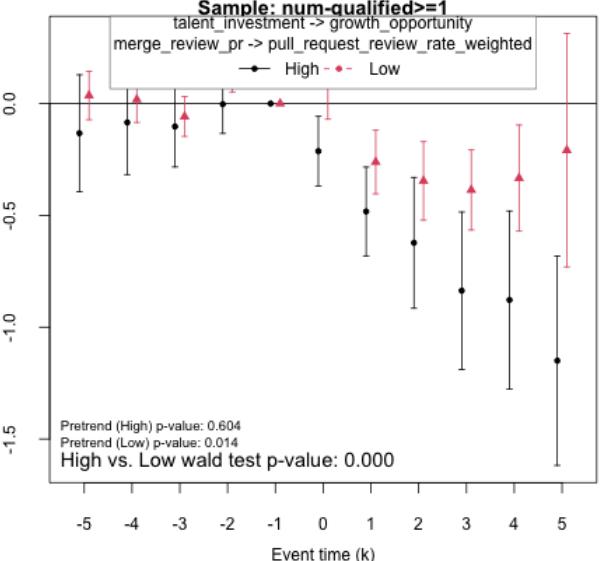
● High ▲ Low

**pull_request_merged rolling5****Sample: num-qualified>=1**talent_investment->growth_opportunity
merge_review_pr -> pull_request_review_rate_weighted

● High ▲ Low

**pull_request_opened rolling5****Sample: num-qualified>=1**talent_investment->growth_opportunity
merge_review_pr -> pull_request_review_rate_weighted

● High ▲ Low

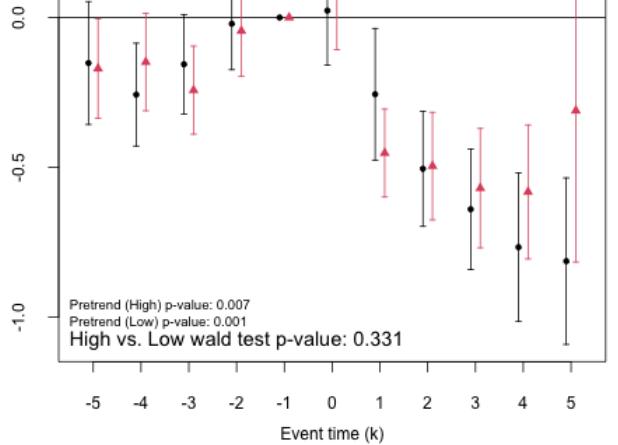


major_minor_release_count rolling5

Sample: num-qualified>=1

talent_investment -> organizational_closeness
network_clustering_coefficient -> clustering_coefficient

● High ▲ Low

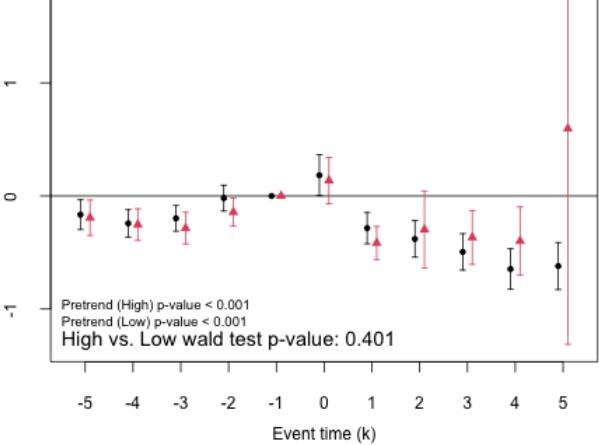


overall_new_release_count rolling5

Sample: num-qualified>=1

talent_investment -> organizational_closeness
network_clustering_coefficient -> clustering_coefficient

● High ▲ Low

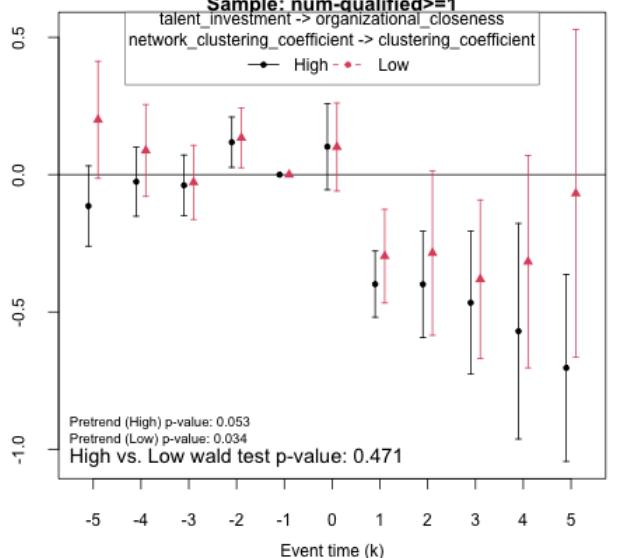


pull_request_merged rolling5

Sample: num-qualified>=1

talent_investment -> organizational_closeness
network_clustering_coefficient -> clustering_coefficient

● High ▲ Low



pull_request_opened rolling5

Sample: num-qualified>=1

talent_investment -> organizational_closeness
network_clustering_coefficient -> clustering_coefficient

● High ▲ Low

