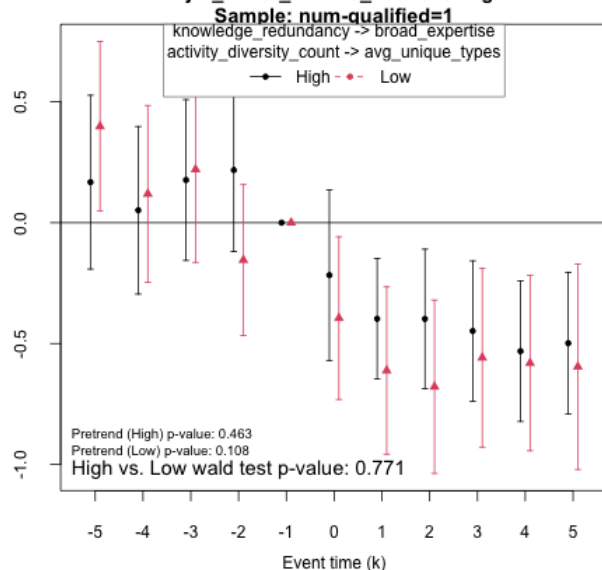
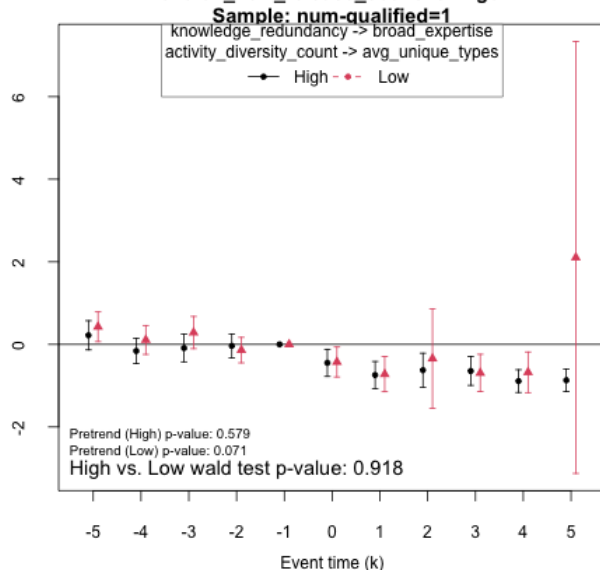


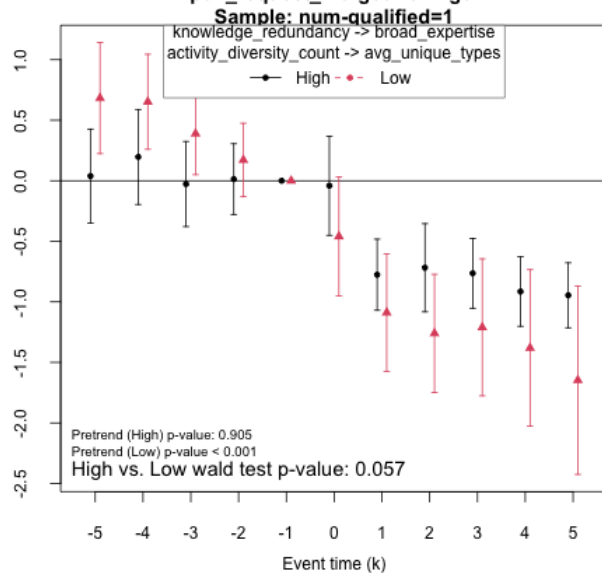
major\_minor\_release\_count rolling5



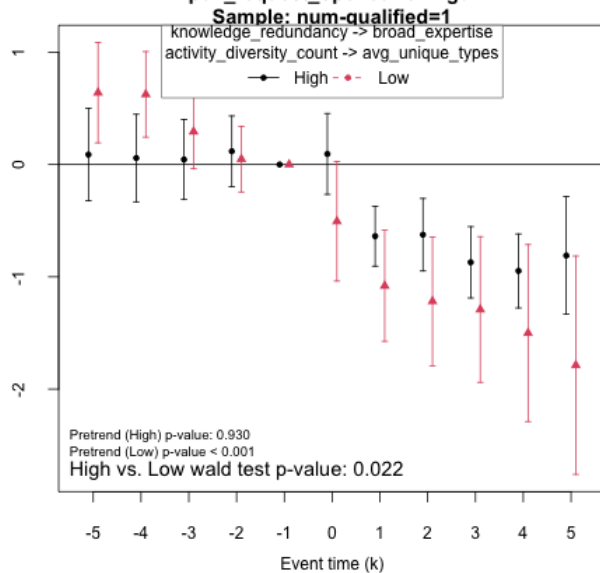
overall\_new\_release\_count rolling5



pull\_request\_merged rolling5



pull\_request\_opened rolling5

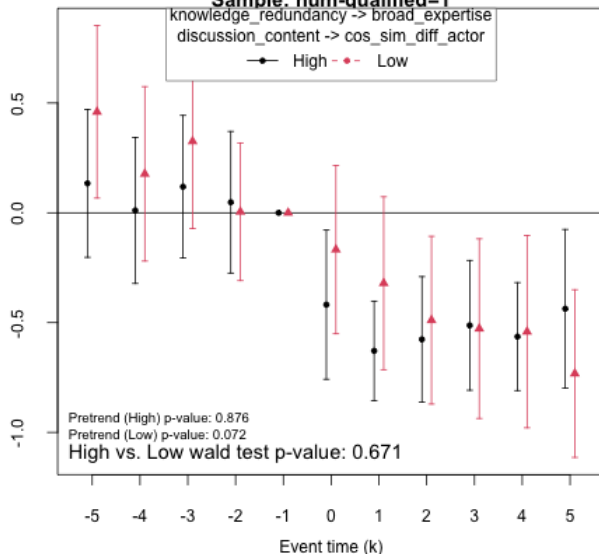


major\_minor\_release\_count rolling5

Sample: num-qualified=1

knowledge\_redundancy->broad\_expertise  
discussion\_content->cos\_sim\_diff\_actor

—●— High —●— Low

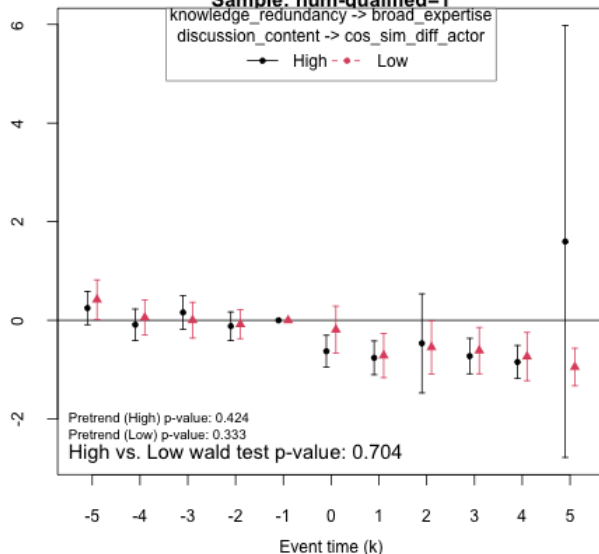


overall\_new\_release\_count rolling5

Sample: num-qualified=1

knowledge\_redundancy->broad\_expertise  
discussion\_content->cos\_sim\_diff\_actor

—●— High —●— Low

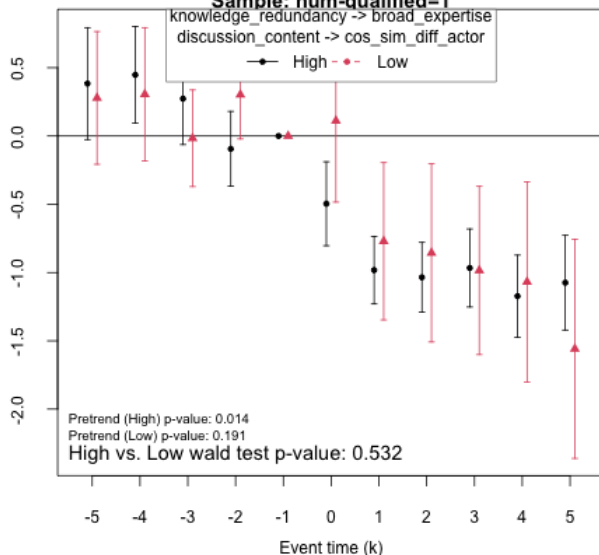


pull\_request\_merged rolling5

Sample: num-qualified=1

knowledge\_redundancy->broad\_expertise  
discussion\_content->cos\_sim\_diff\_actor

—●— High —●— Low

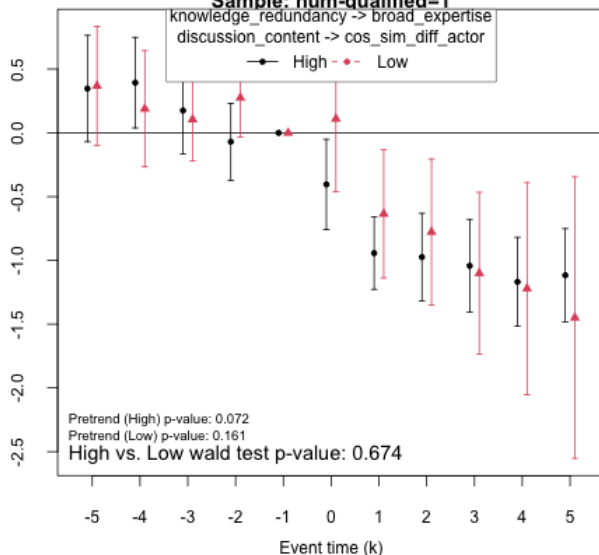


pull\_request\_opened rolling5

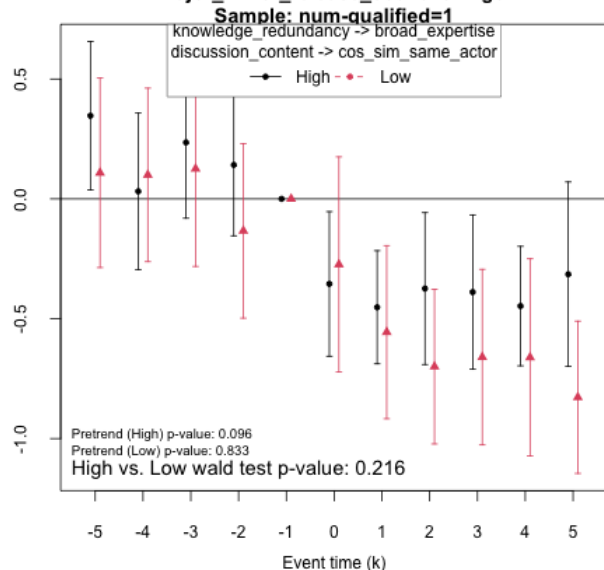
Sample: num-qualified=1

knowledge\_redundancy->broad\_expertise  
discussion\_content->cos\_sim\_diff\_actor

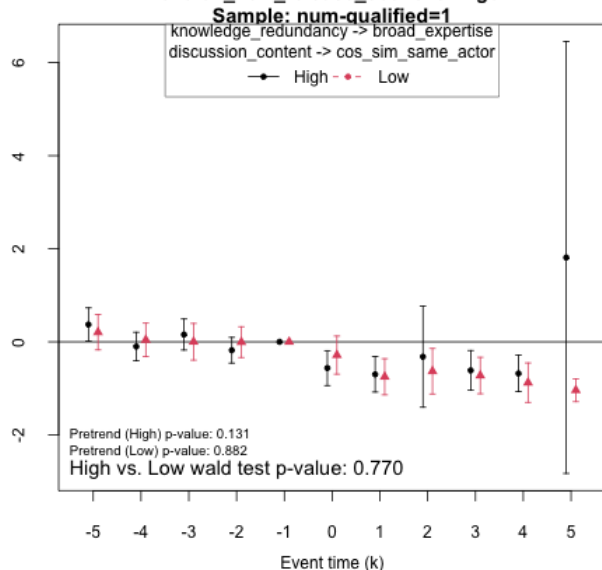
—●— High —●— Low



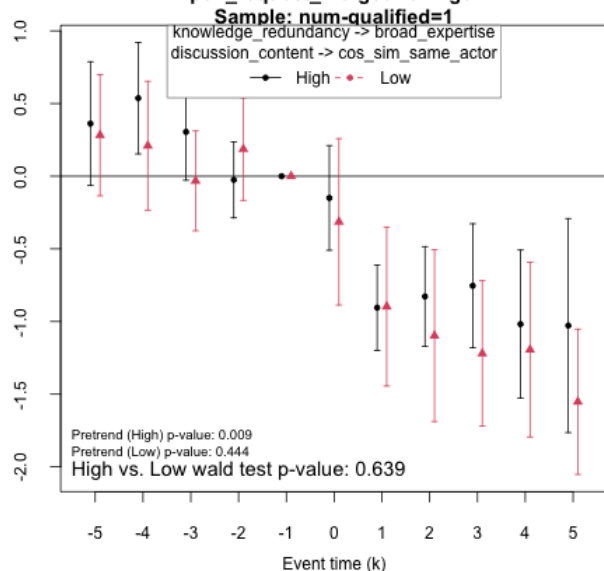
major\_minor\_release\_count rolling5



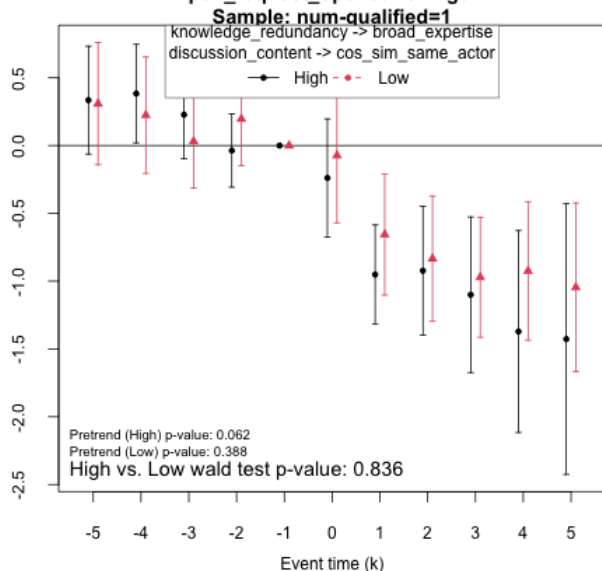
overall\_new\_release\_count rolling5



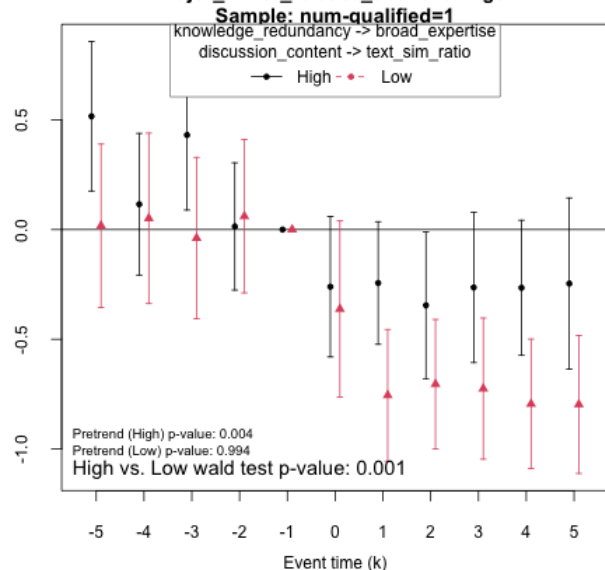
pull\_request\_merged rolling5



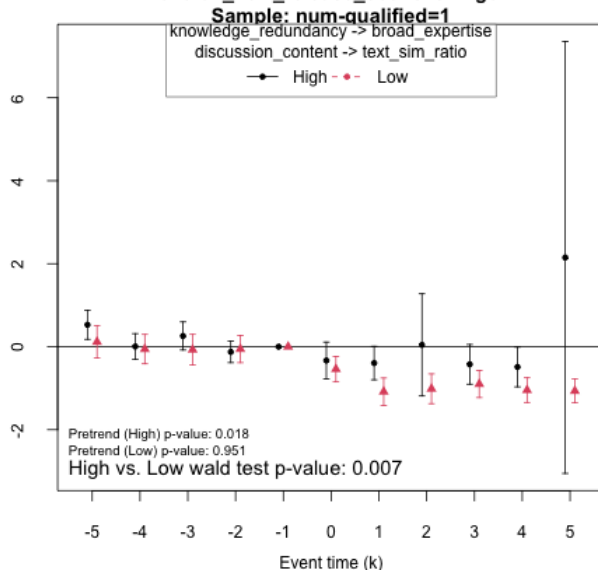
pull\_request\_opened rolling5



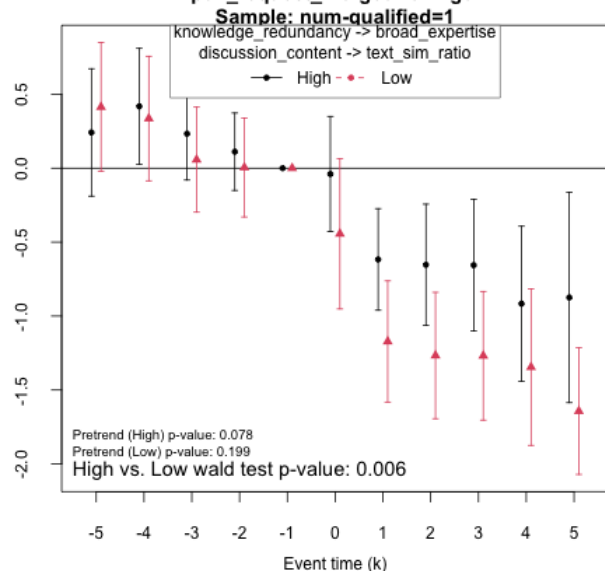
major\_minor\_release\_count rolling5



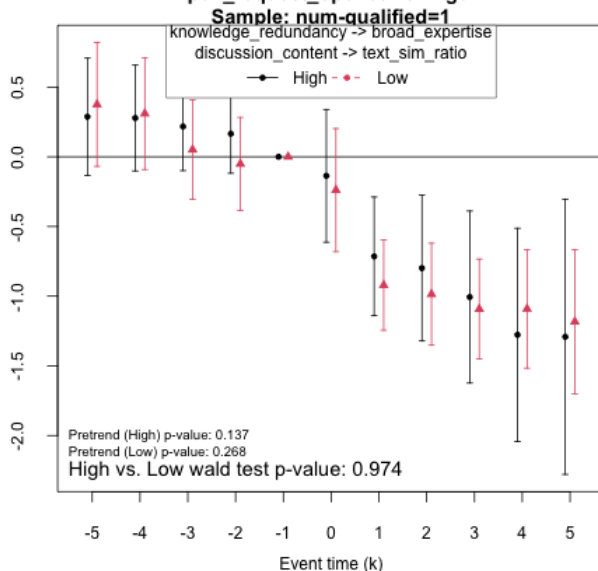
overall\_new\_release\_count rolling5



pull\_request\_merged rolling5



pull\_request\_opened rolling5



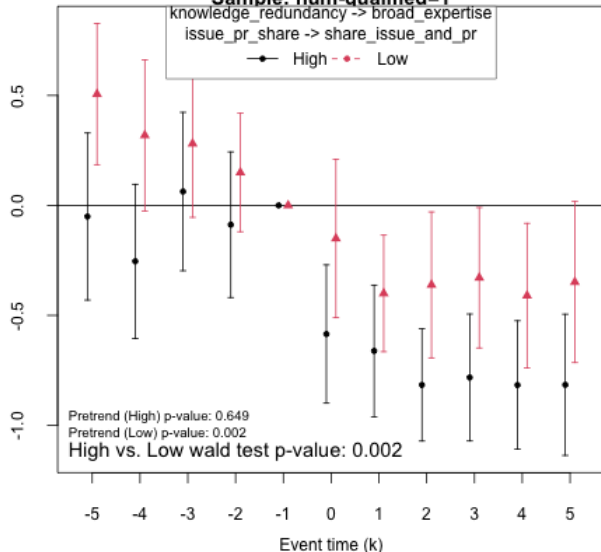
major\_minor\_release\_count rolling5

Sample: num-qualified=1

knowledge\_redundancy-&gt; broad\_expertise

issue\_pr\_share-&gt; share\_issue\_and\_pr

● High - ● Low



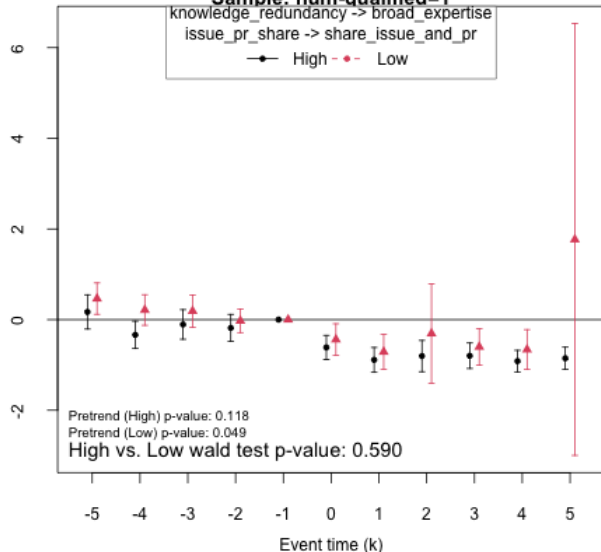
overall\_new\_release\_count rolling5

Sample: num-qualified=1

knowledge\_redundancy-&gt; broad\_expertise

issue\_pr\_share-&gt; share\_issue\_and\_pr

● High - ● Low



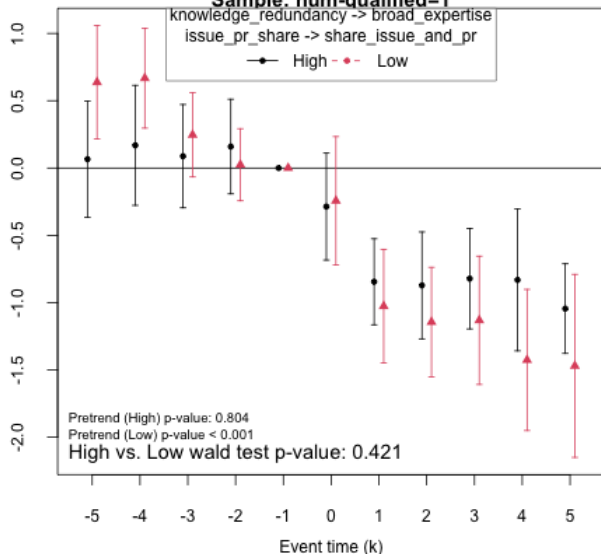
pull\_request\_merged rolling5

Sample: num-qualified=1

knowledge\_redundancy-&gt; broad\_expertise

issue\_pr\_share-&gt; share\_issue\_and\_pr

● High - ● Low



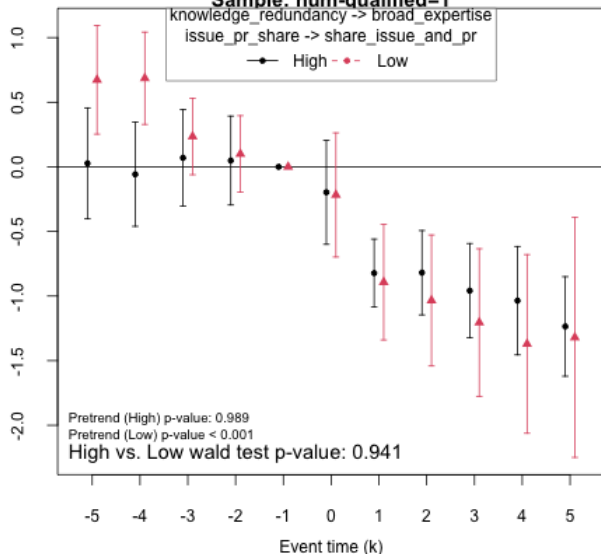
pull\_request\_opened rolling5

Sample: num-qualified=1

knowledge\_redundancy-&gt; broad\_expertise

issue\_pr\_share-&gt; share\_issue\_and\_pr

● High - ● Low



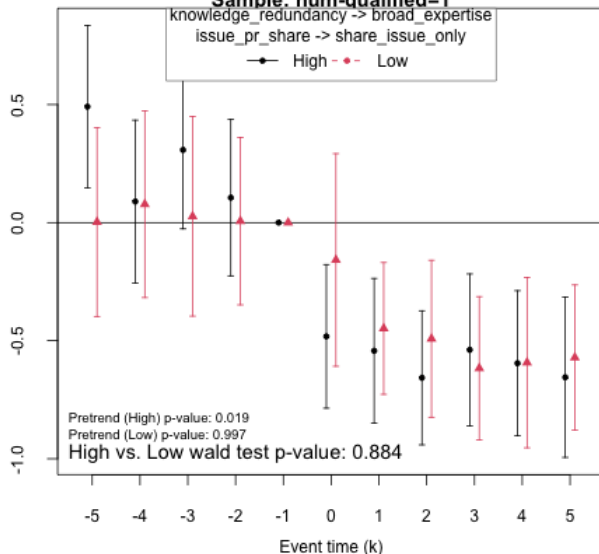
major\_minor\_release\_count rolling5

Sample: num-qualified=1

knowledge\_redundancy -&gt; broad\_expertise

issue\_pr\_share -&gt; share\_issue\_only

● High - ● Low



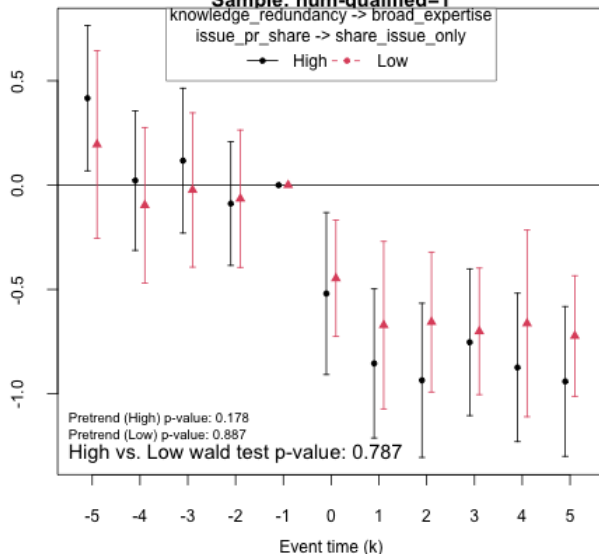
overall\_new\_release\_count rolling5

Sample: num-qualified=1

knowledge\_redundancy -&gt; broad\_expertise

issue\_pr\_share -&gt; share\_issue\_only

● High - ● Low



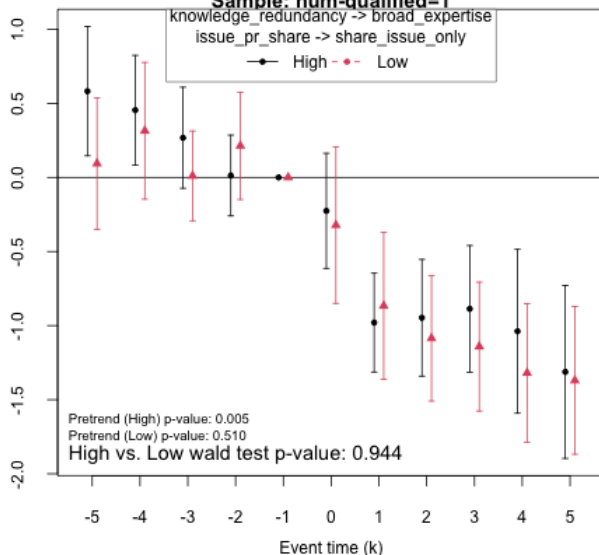
pull\_request\_merged rolling5

Sample: num-qualified=1

knowledge\_redundancy -&gt; broad\_expertise

issue\_pr\_share -&gt; share\_issue\_only

● High - ● Low



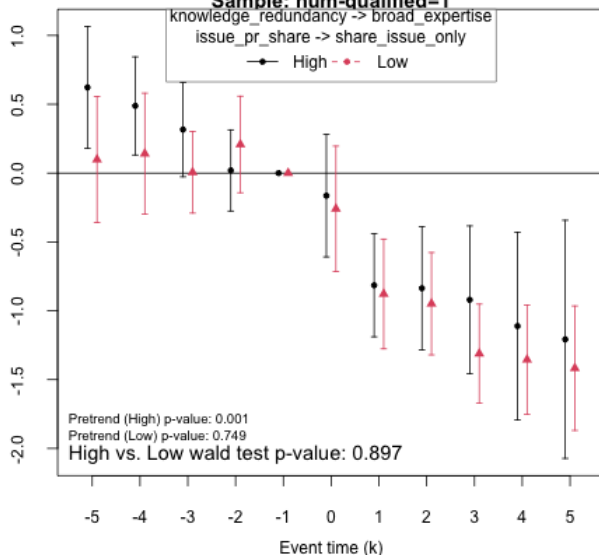
pull\_request\_opened rolling5

Sample: num-qualified=1

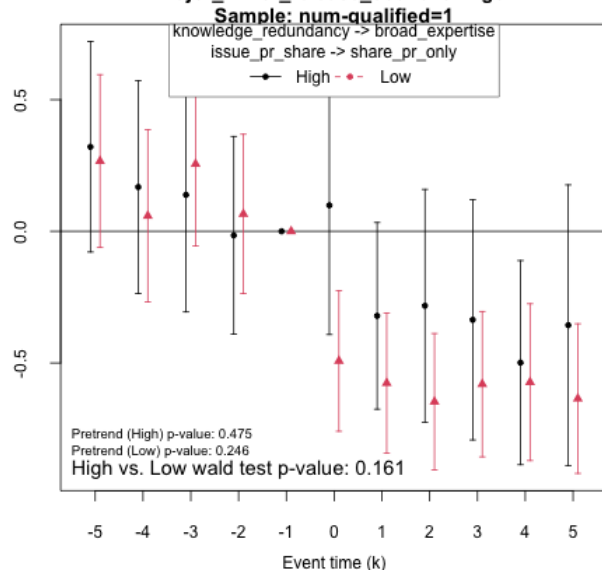
knowledge\_redundancy -&gt; broad\_expertise

issue\_pr\_share -&gt; share\_issue\_only

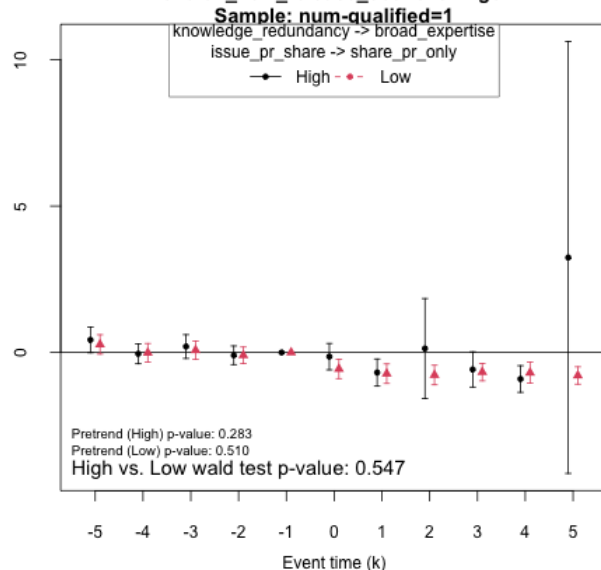
● High - ● Low



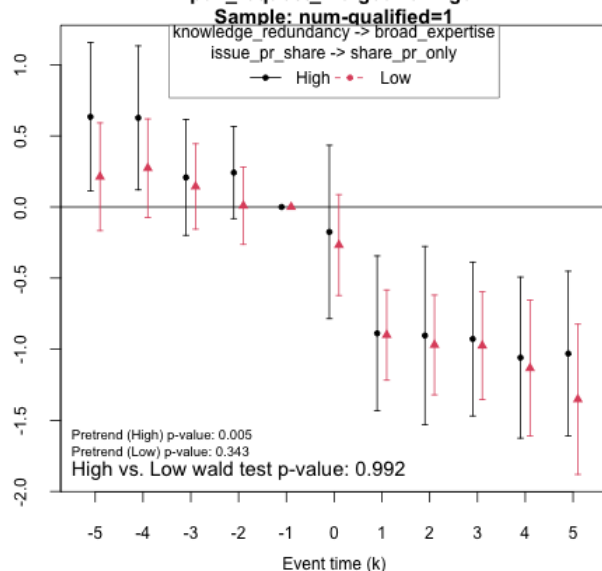
major\_minor\_release\_count rolling5



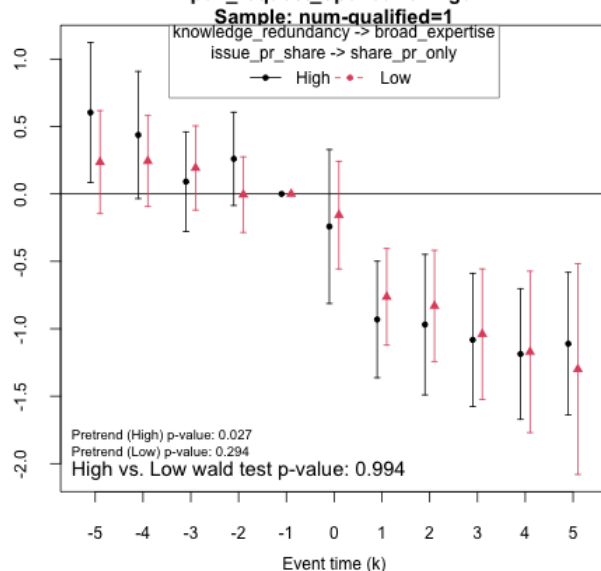
overall\_new\_release\_count rolling5



pull\_request\_merged rolling5

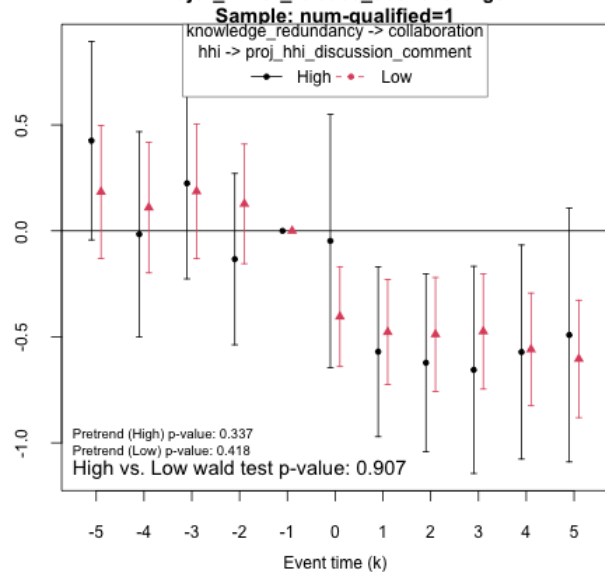


pull\_request\_opened rolling5

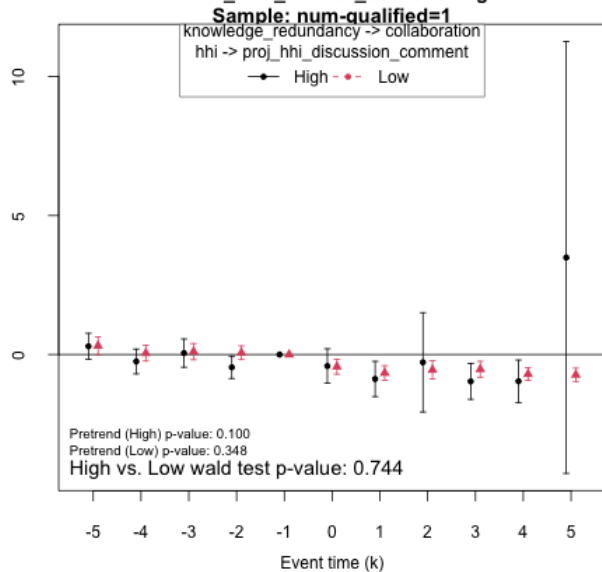




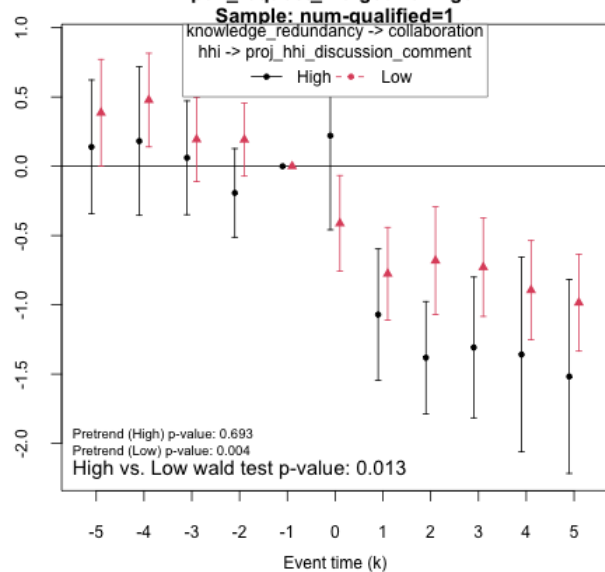
major\_minor\_release\_count rolling5



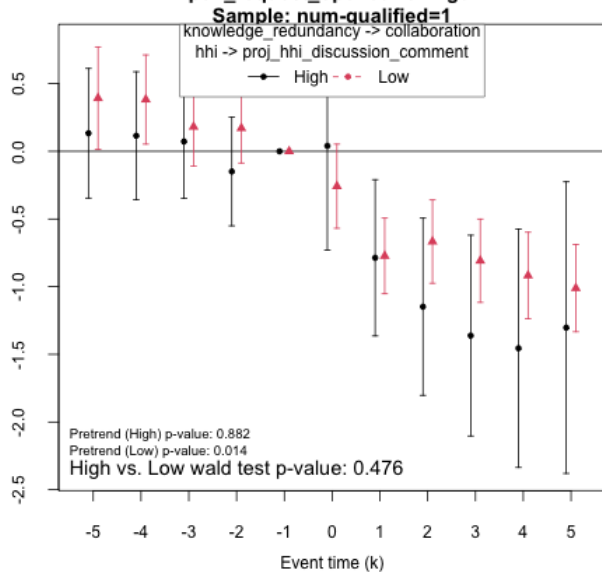
overall\_new\_release\_count rolling5



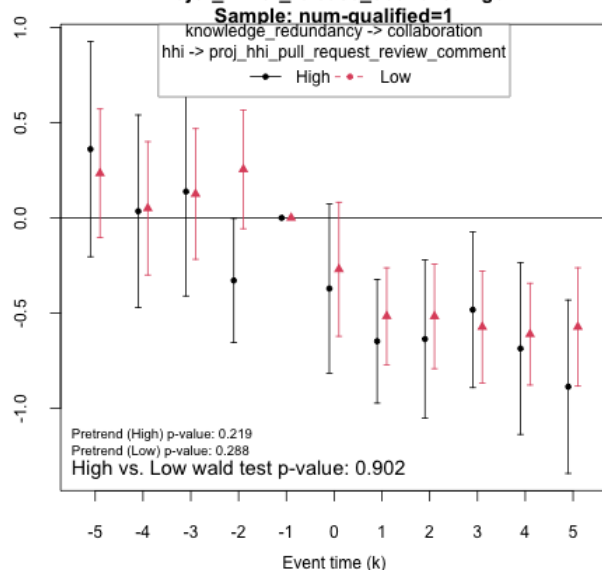
pull\_request\_merged rolling5



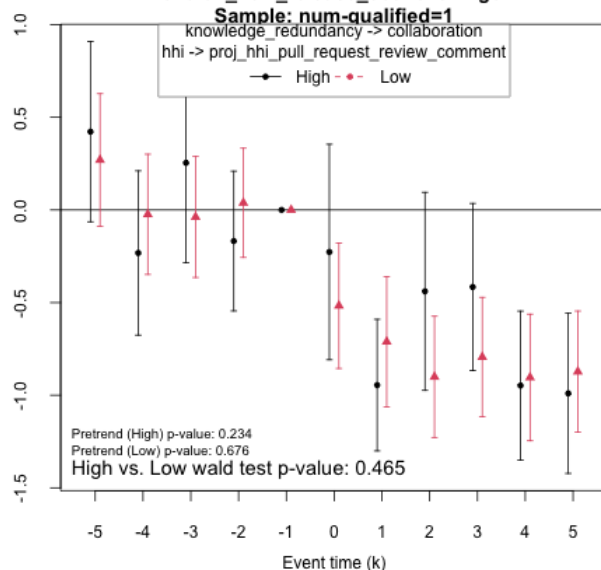
pull\_request\_opened rolling5



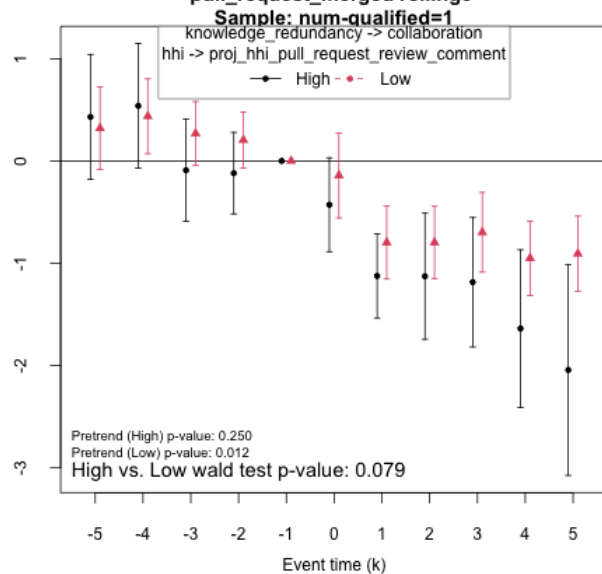
major\_minor\_release\_count rolling5



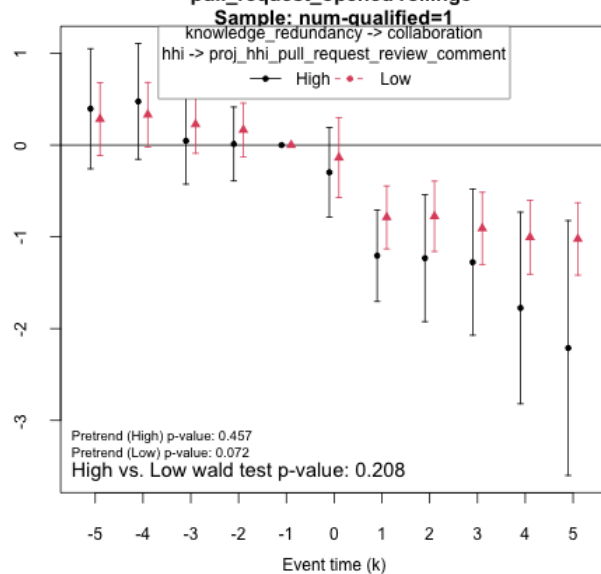
overall\_new\_release\_count rolling5



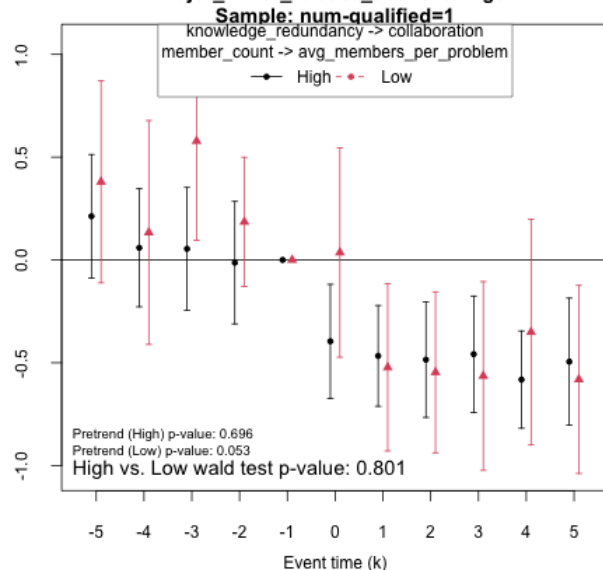
pull\_request\_merged rolling5



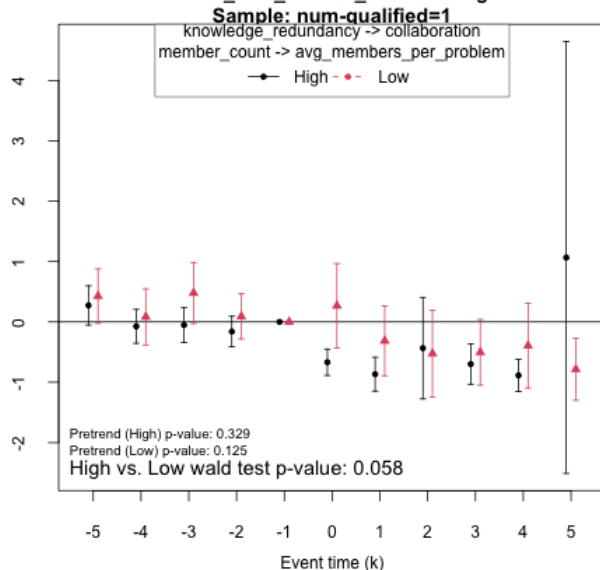
pull\_request\_opened rolling5



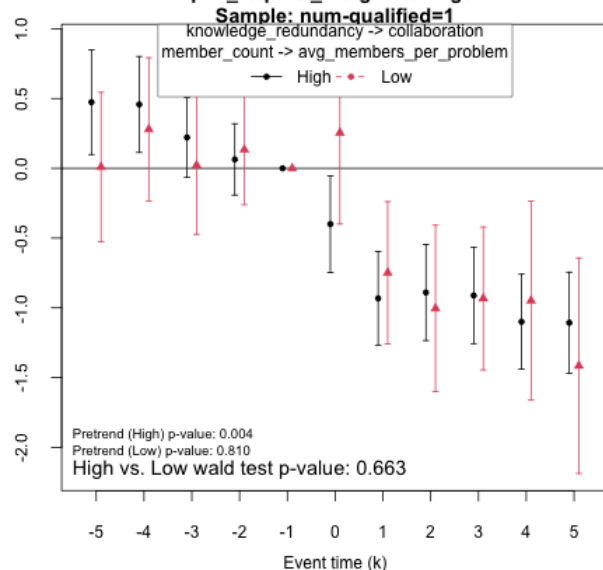
major\_minor\_release\_count rolling5



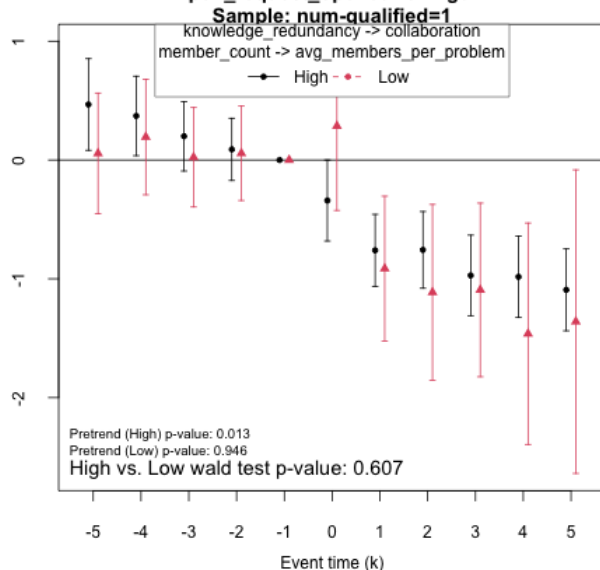
overall\_new\_release\_count rolling5



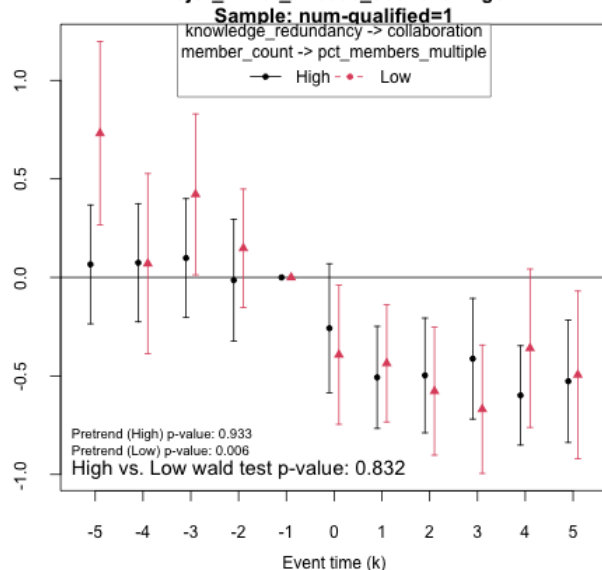
pull\_request\_merged rolling5



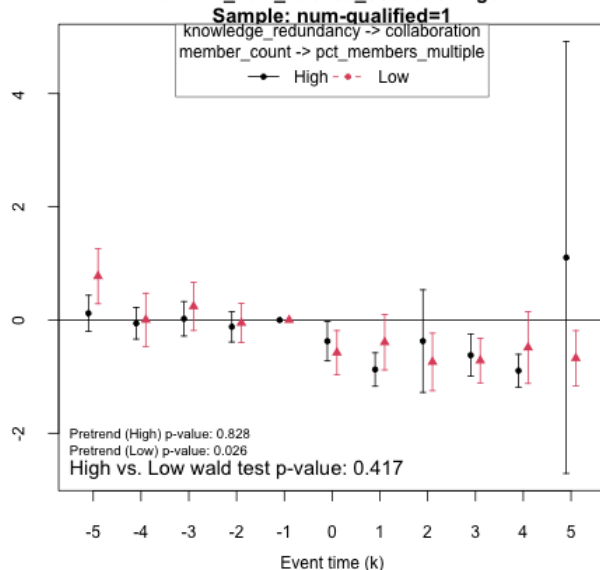
pull\_request\_opened rolling5



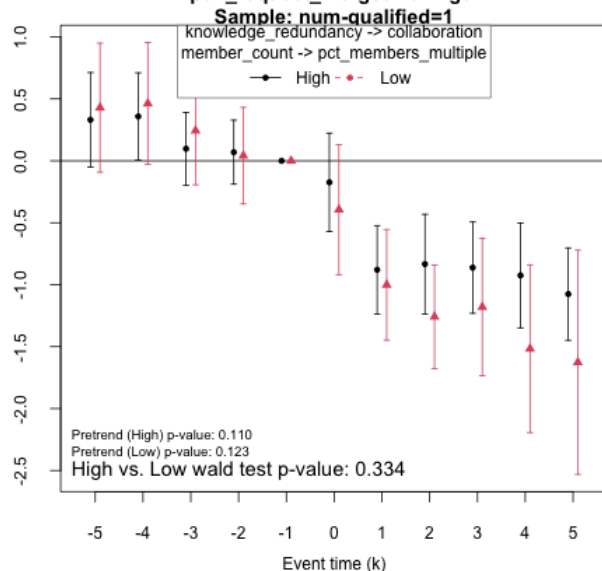
major\_minor\_release\_count rolling5



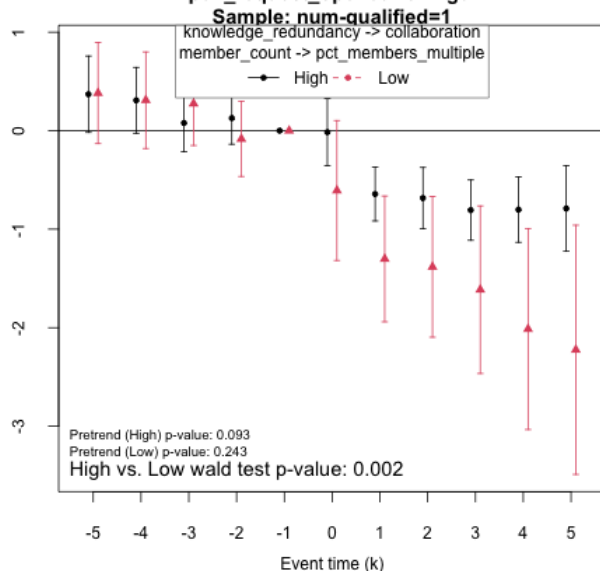
overall\_new\_release\_count rolling5



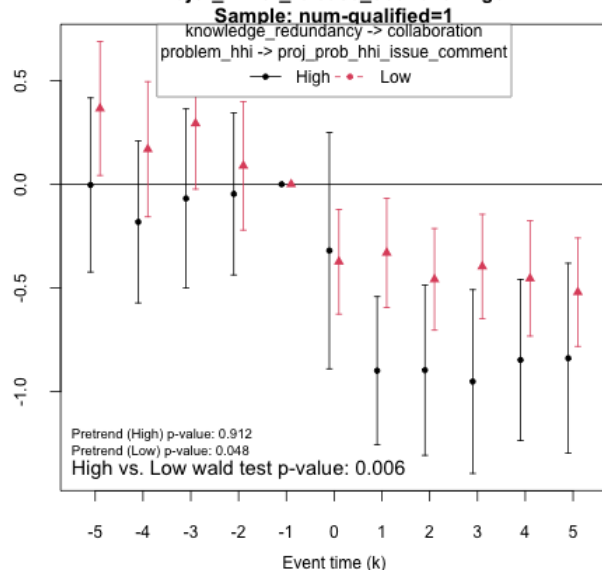
pull\_request\_merged rolling5



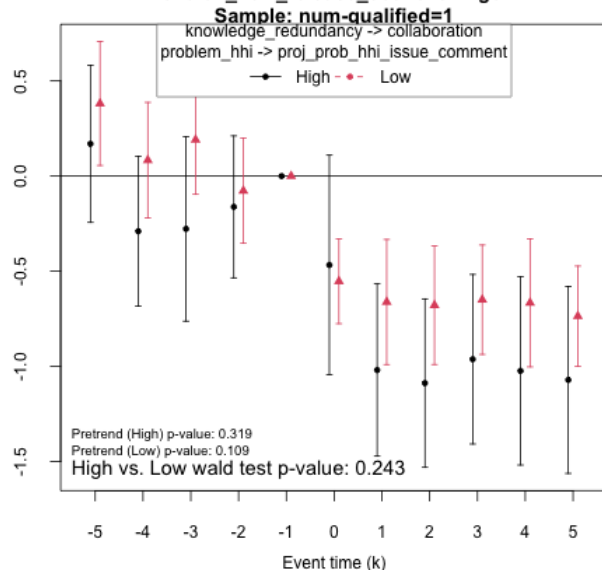
pull\_request\_opened rolling5



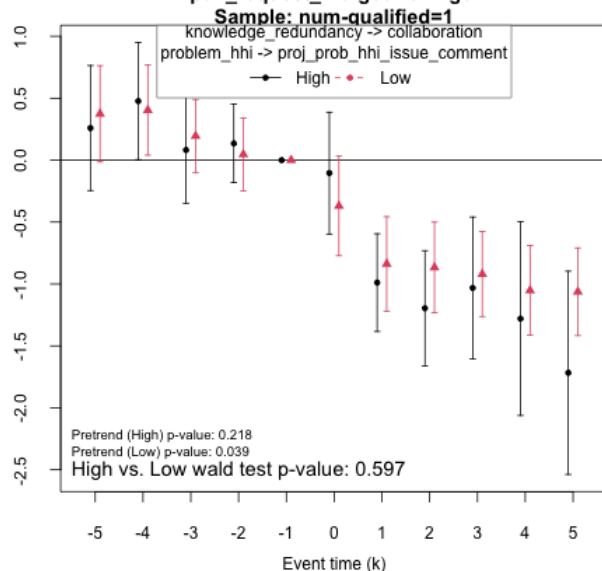
major\_minor\_release\_count rolling5



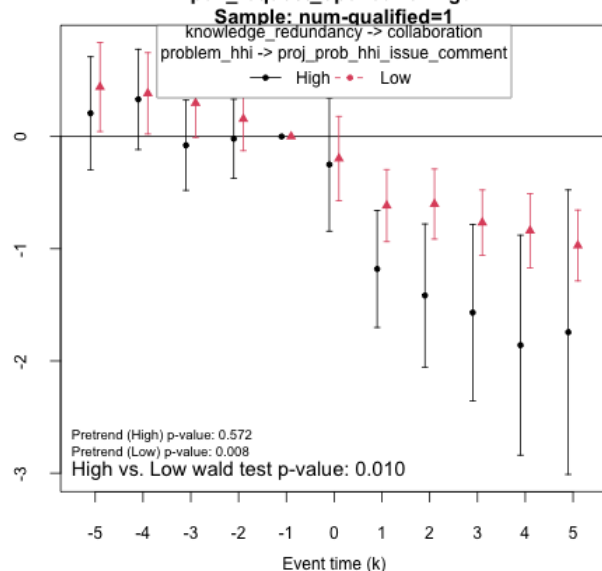
overall\_new\_release\_count rolling5



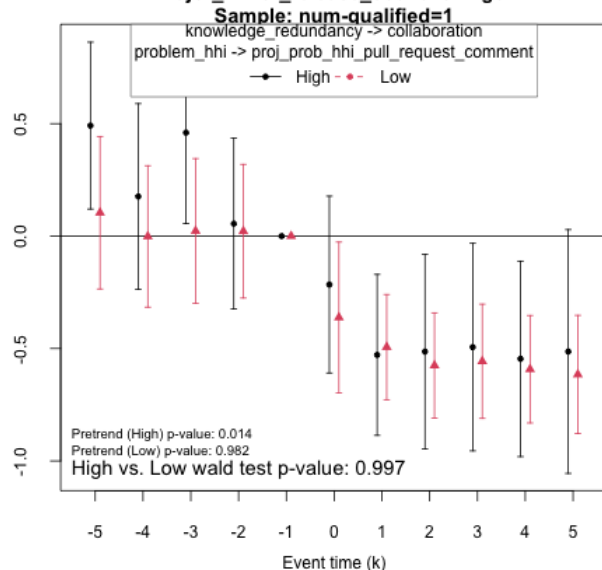
pull\_request\_merged rolling5



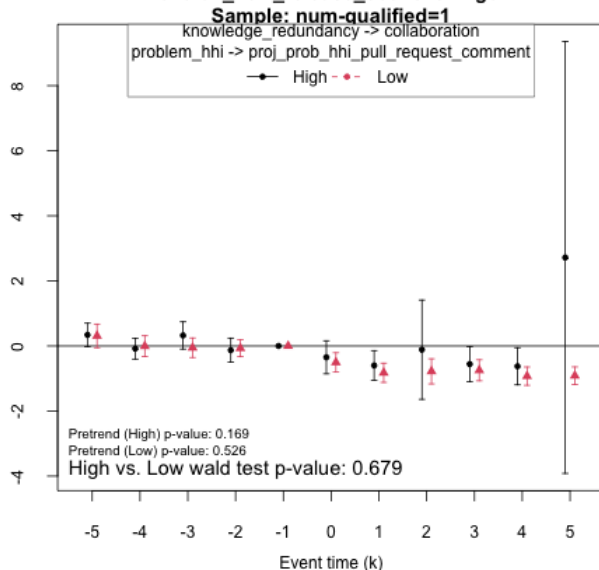
pull\_request\_opened rolling5



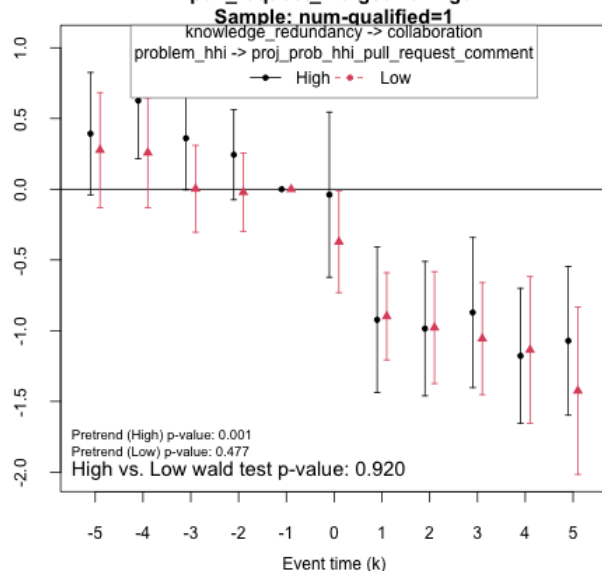
major\_minor\_release\_count rolling5



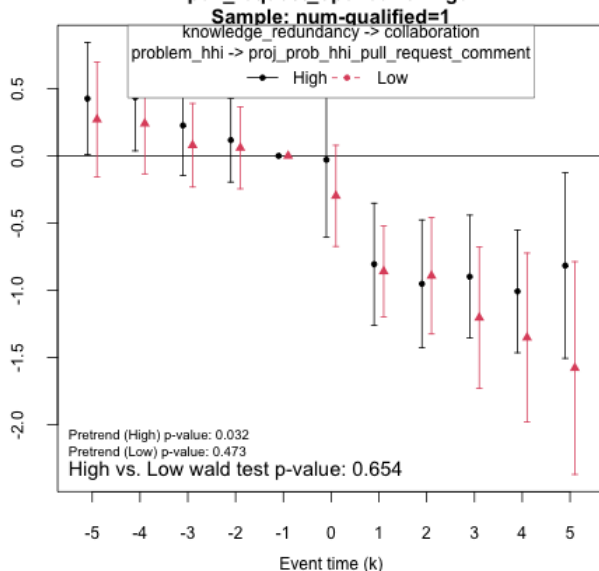
overall\_new\_release\_count rolling5



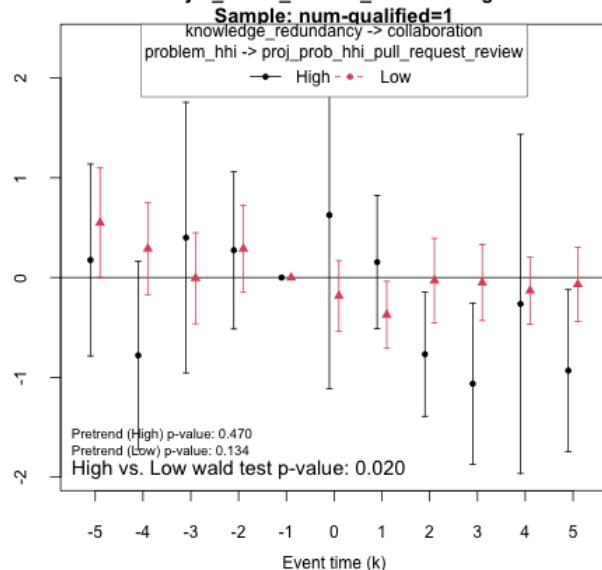
pull\_request\_merged rolling5



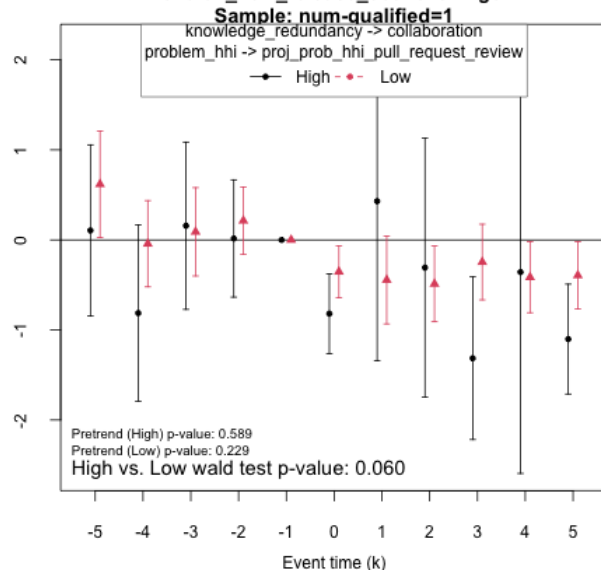
pull\_request\_opened rolling5



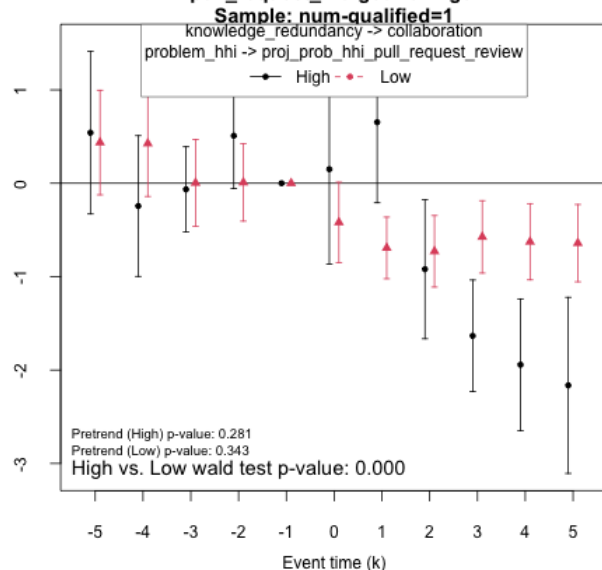
major\_minor\_release\_count rolling5



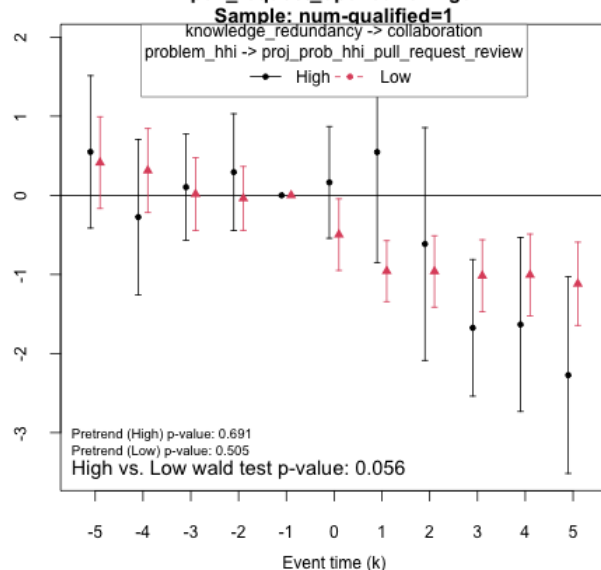
overall\_new\_release\_count rolling5



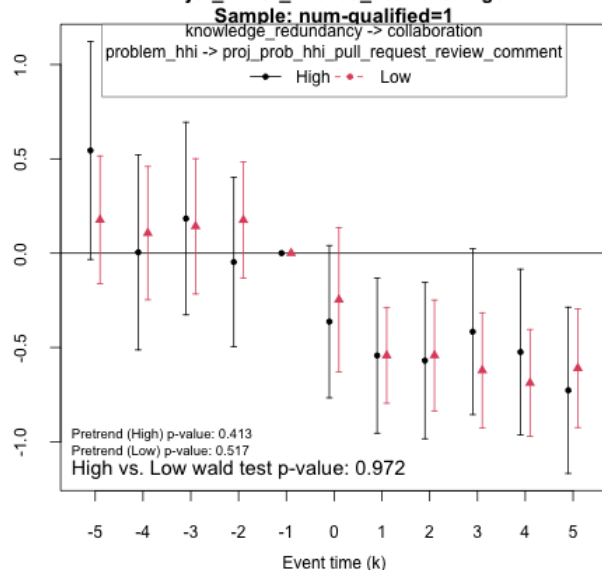
pull\_request\_merged rolling5



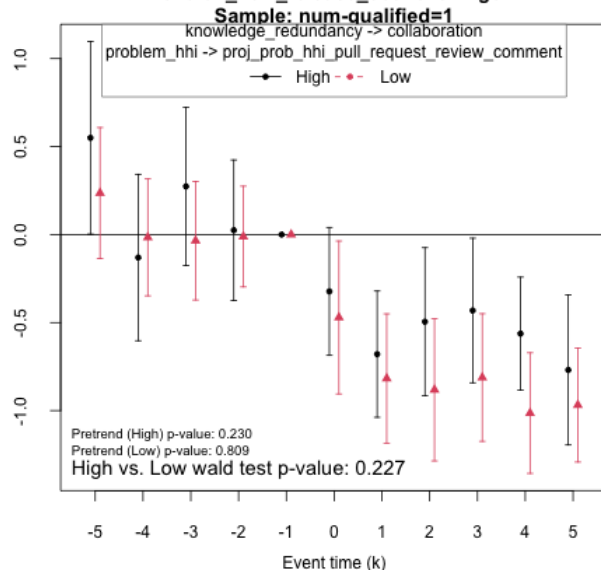
pull\_request\_opened rolling5



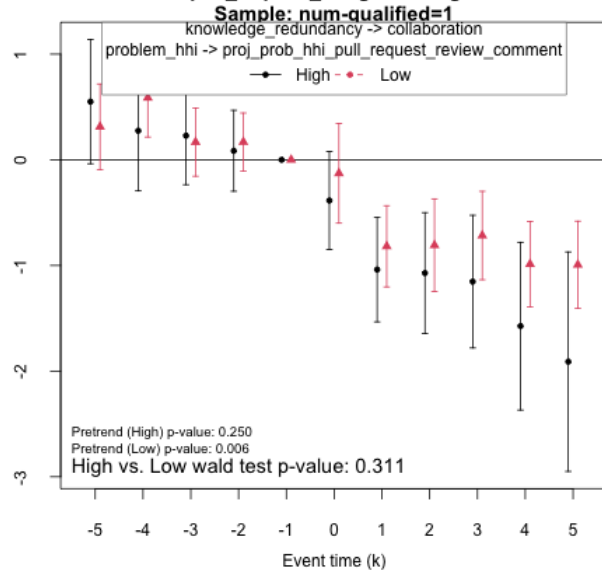
major\_minor\_release\_count rolling5



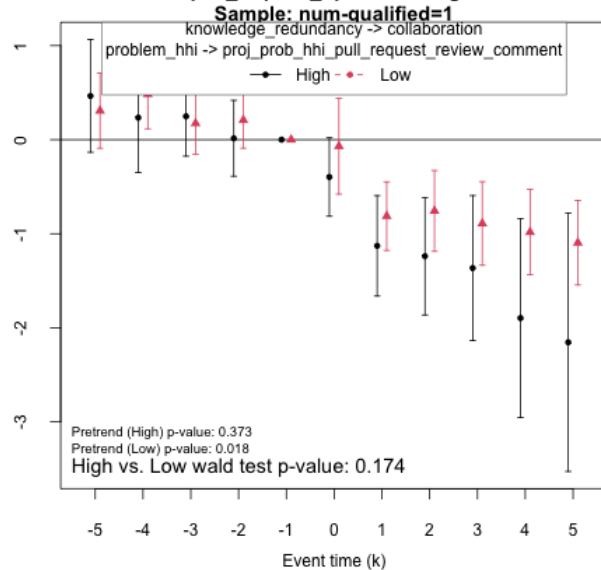
overall\_new\_release\_count rolling5



pull\_request\_merged rolling5

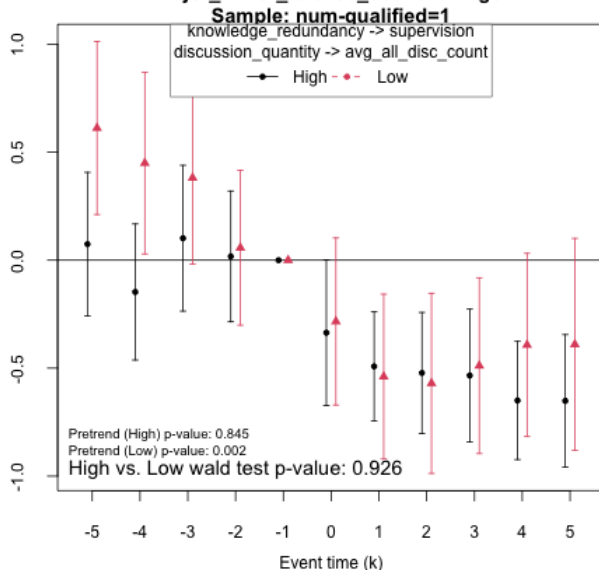


pull\_request\_opened rolling5

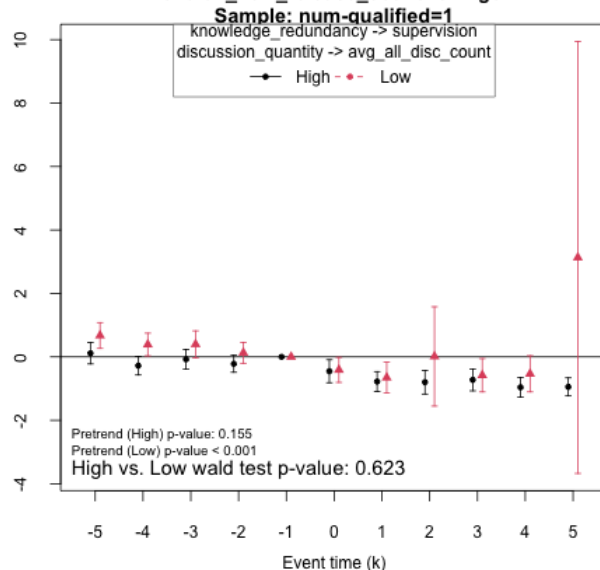




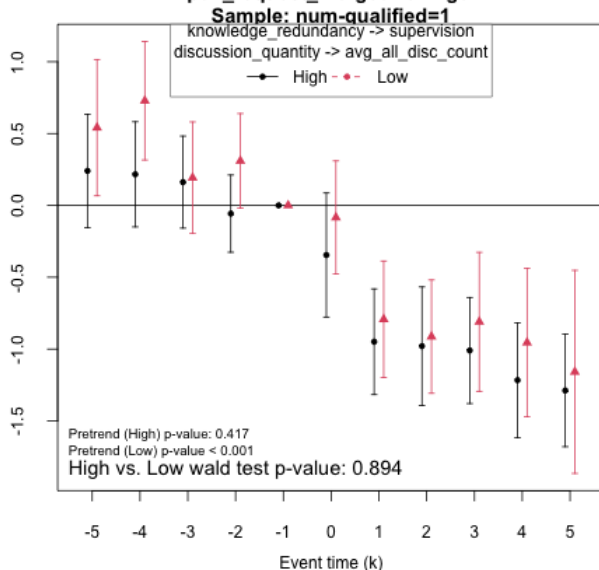
major\_minor\_release\_count rolling5



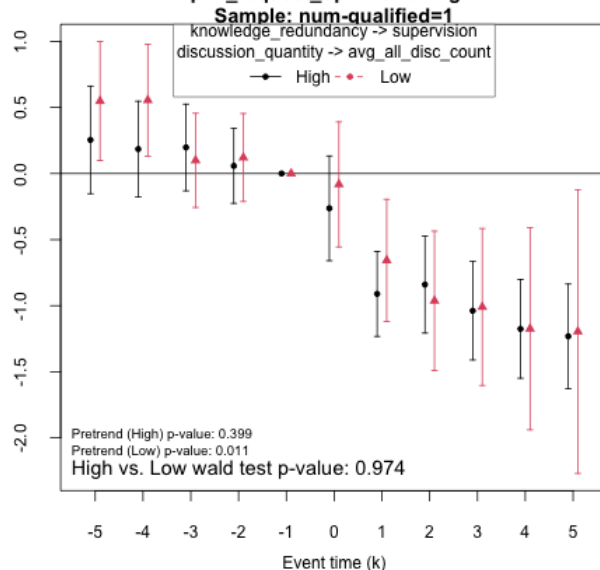
overall\_new\_release\_count rolling5



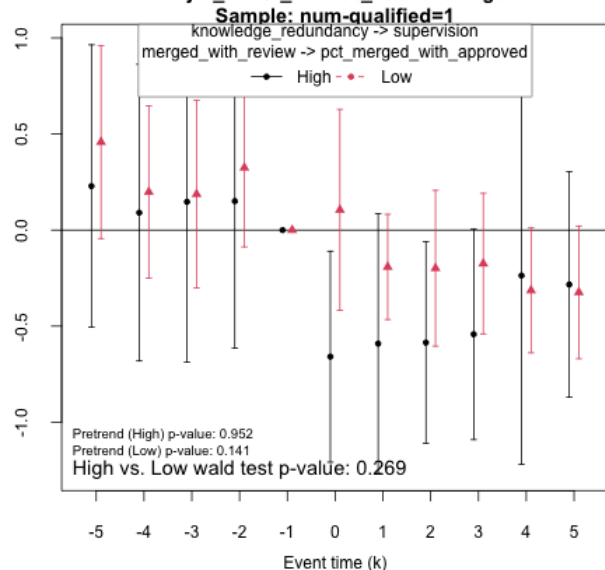
pull\_request\_merged rolling5



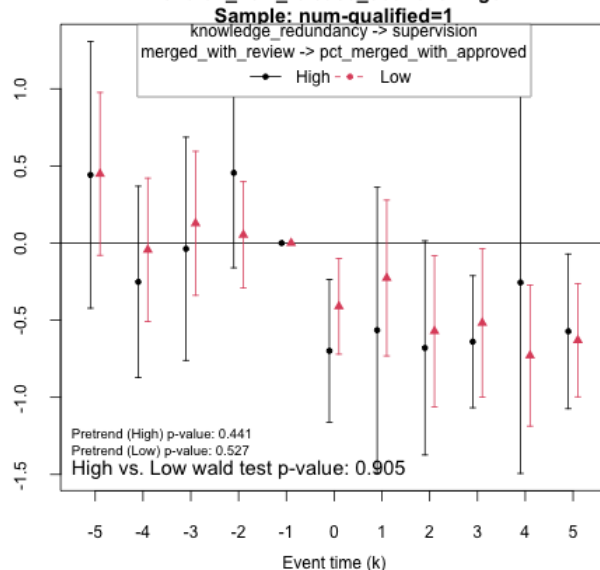
pull\_request\_opened rolling5



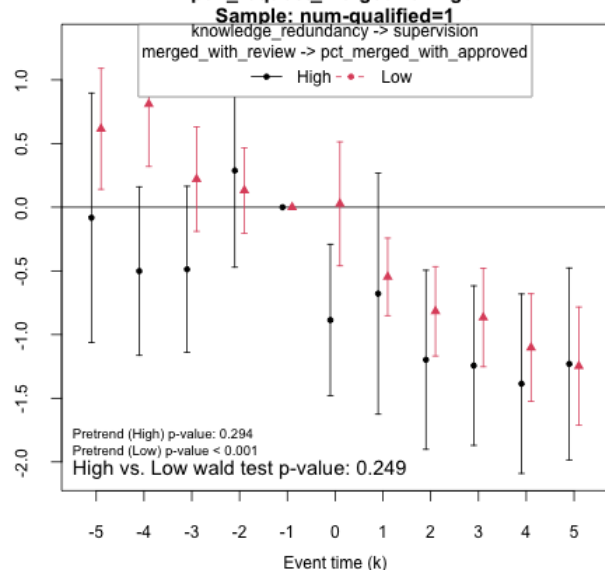
major\_minor\_release\_count rolling5



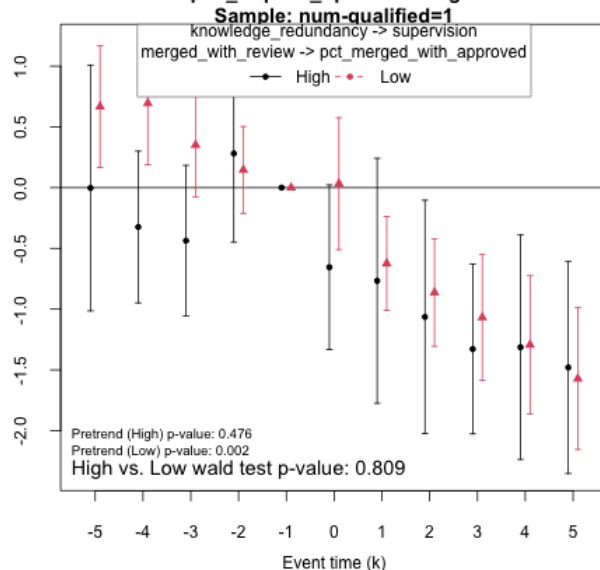
overall\_new\_release\_count rolling5



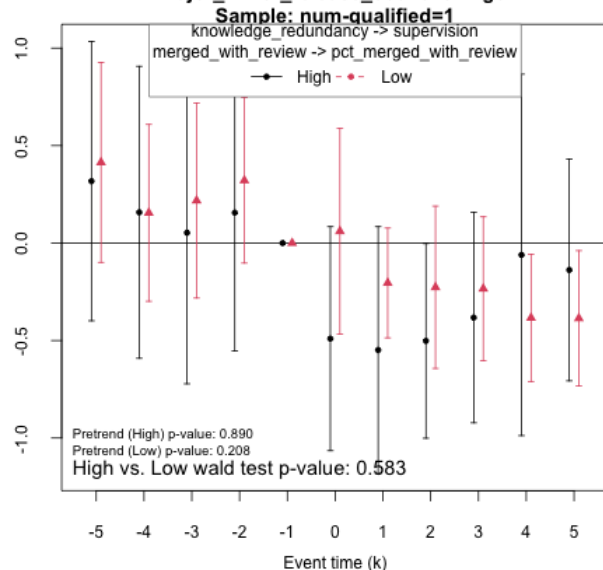
pull\_request\_merged rolling5



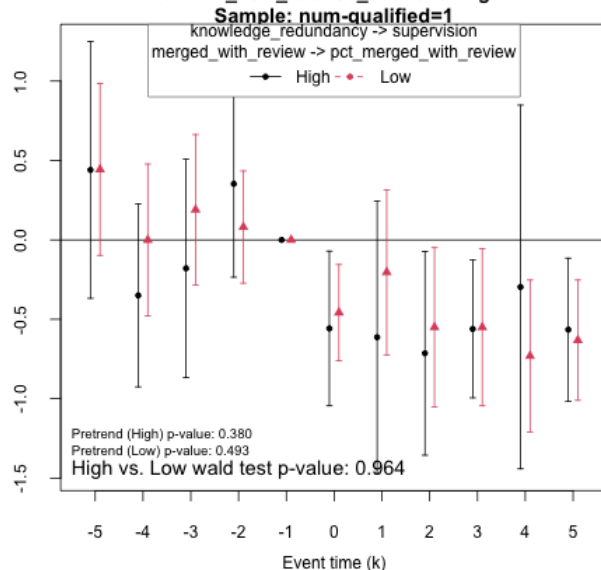
pull\_request\_opened rolling5



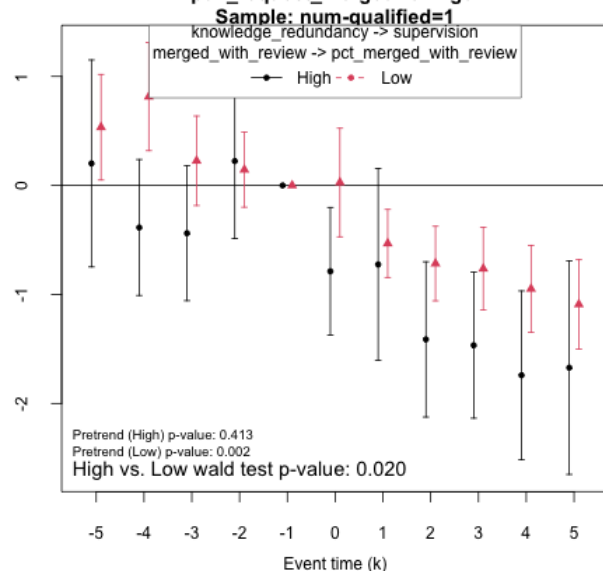
major\_minor\_release\_count rolling5



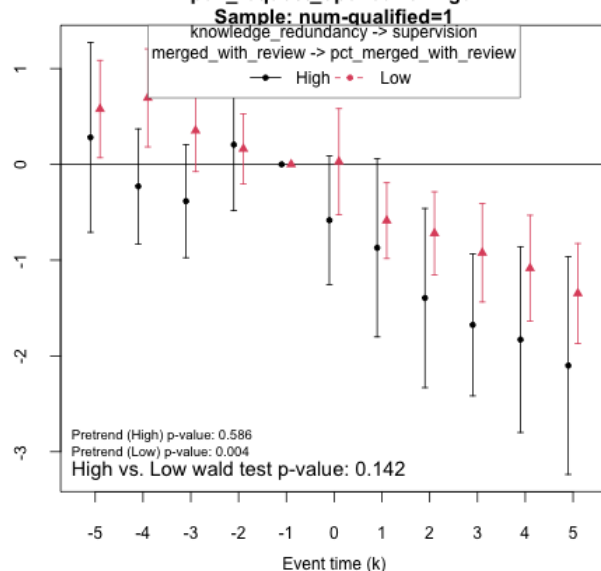
overall\_new\_release\_count rolling5



pull\_request\_merged rolling5



pull\_request\_opened rolling5

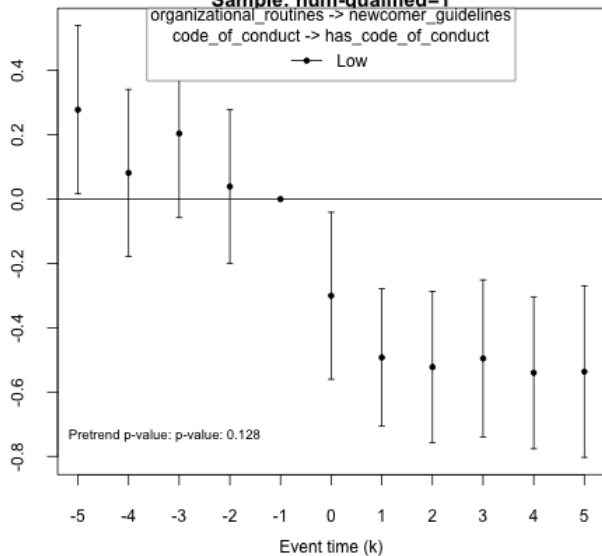


major\_minor\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
code\_of\_conduct -> has\_code\_of\_conduct

—●— Low

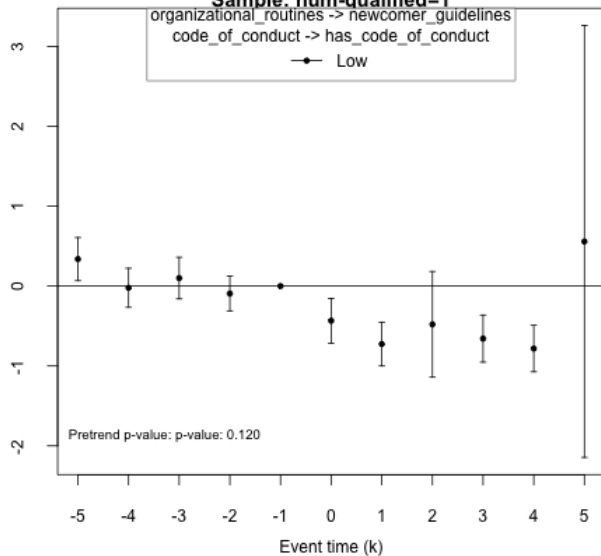


overall\_new\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
code\_of\_conduct -> has\_code\_of\_conduct

—●— Low

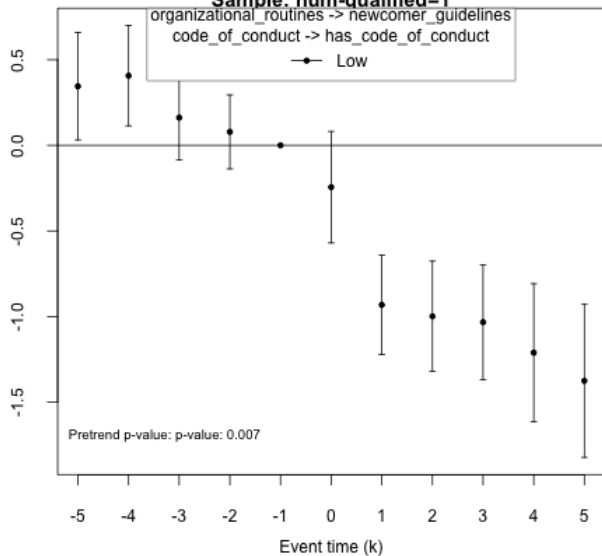


pull\_request\_merged rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
code\_of\_conduct -> has\_code\_of\_conduct

—●— Low

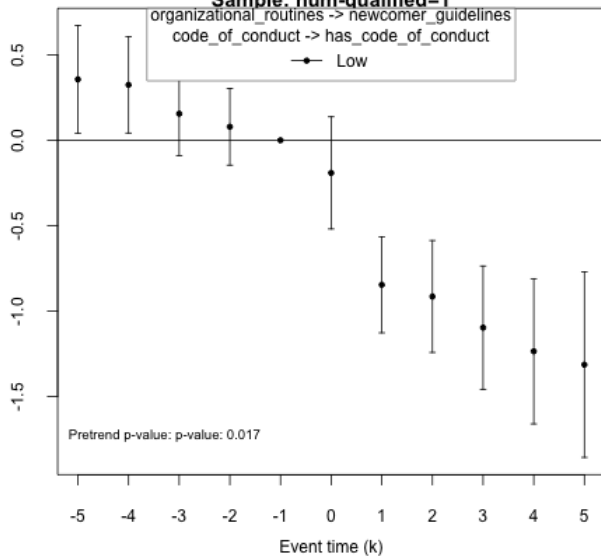


pull\_request\_opened rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
code\_of\_conduct -> has\_code\_of\_conduct

—●— Low

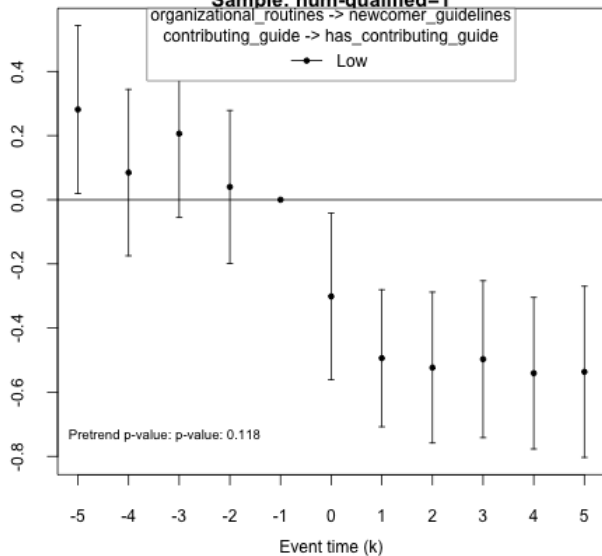


major\_minor\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
contributing\_guide -> has\_contributing\_guide

—●— Low

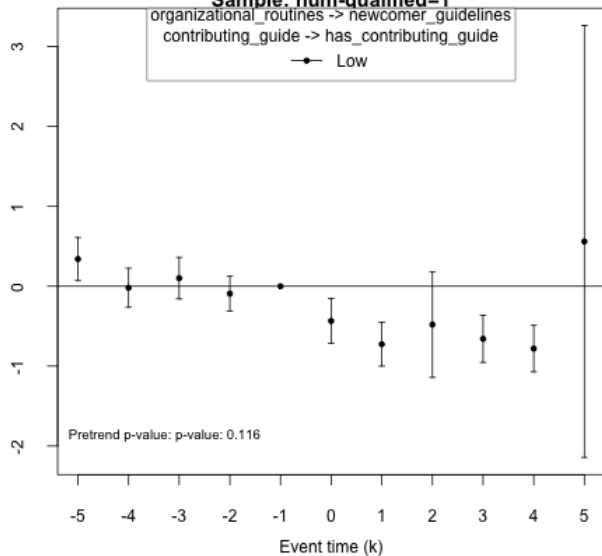


overall\_new\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
contributing\_guide -> has\_contributing\_guide

—●— Low

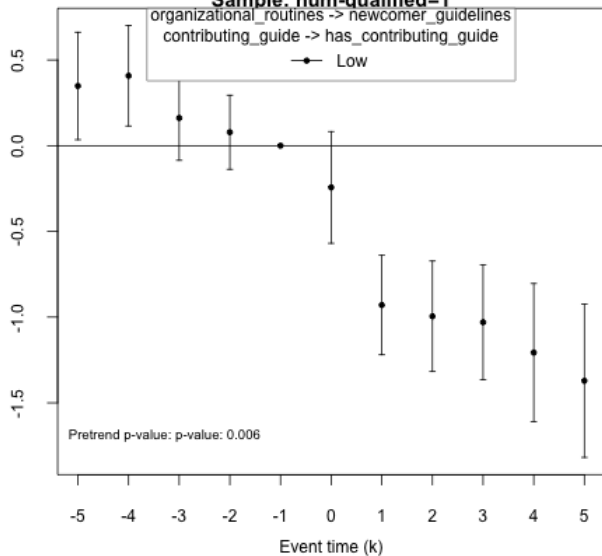


pull\_request\_merged rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
contributing\_guide -> has\_contributing\_guide

—●— Low

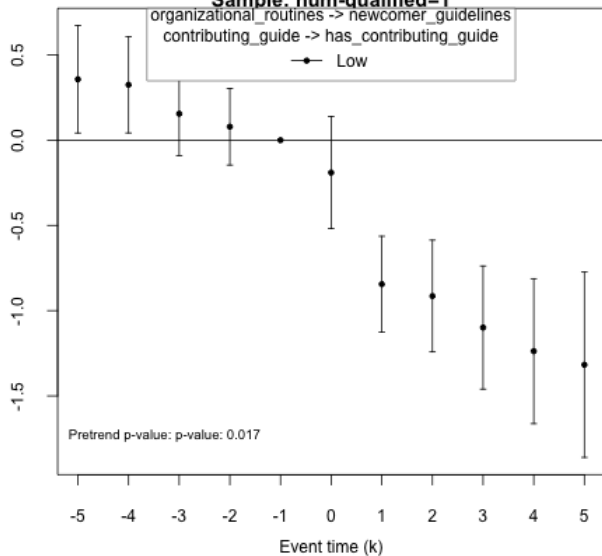


pull\_request\_opened rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
contributing\_guide -> has\_contributing\_guide

—●— Low

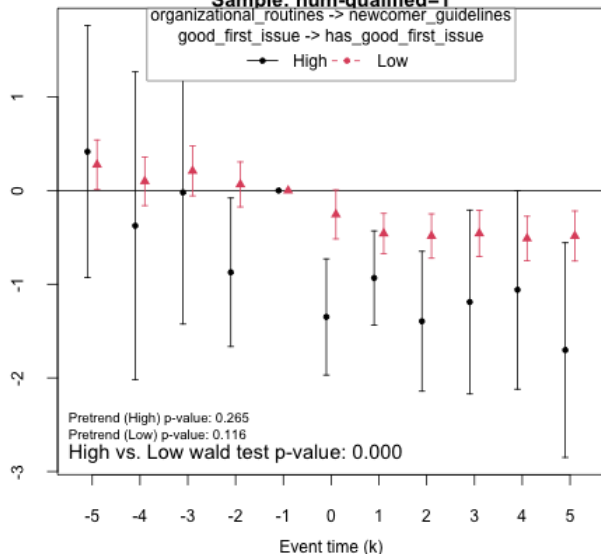


major\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
good\_first\_issue -> has\_good\_first\_issue

—●— High —●— Low

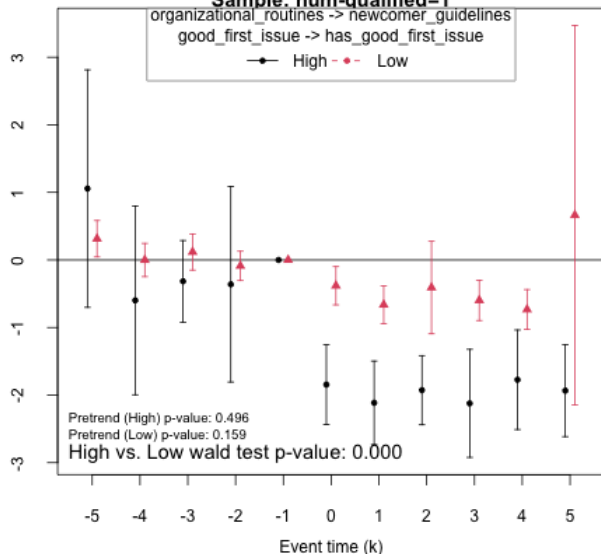


overall\_new\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
good\_first\_issue -> has\_good\_first\_issue

—●— High —●— Low

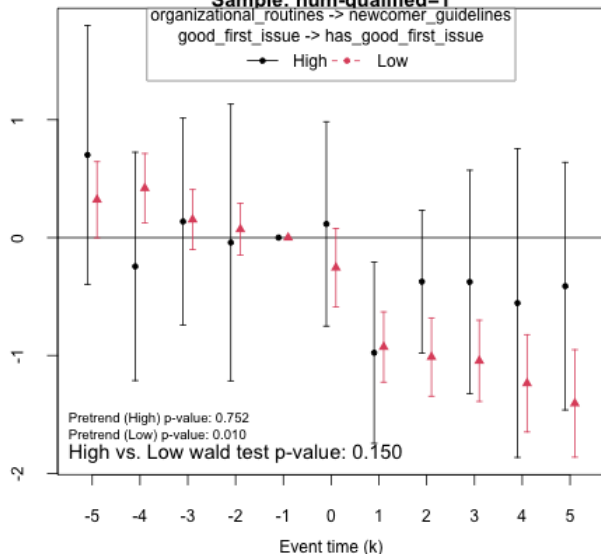


pull\_request\_merged rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
good\_first\_issue -> has\_good\_first\_issue

—●— High —●— Low

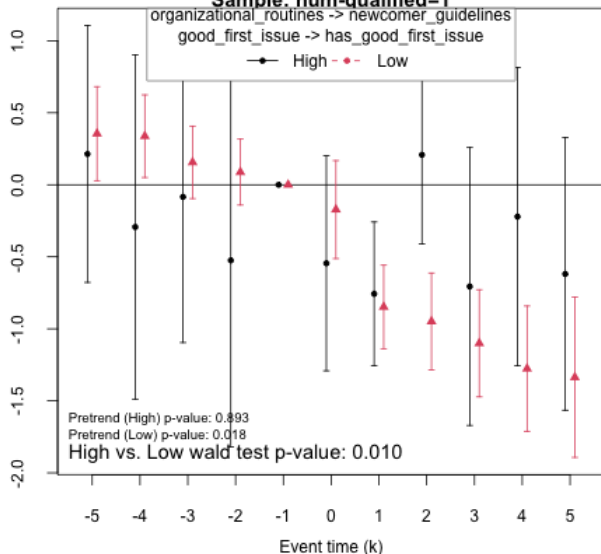


pull\_request\_opened rolling5

Sample: num-qualified=1

organizational\_routines -> newcomer\_guidelines  
good\_first\_issue -> has\_good\_first\_issue

—●— High —●— Low

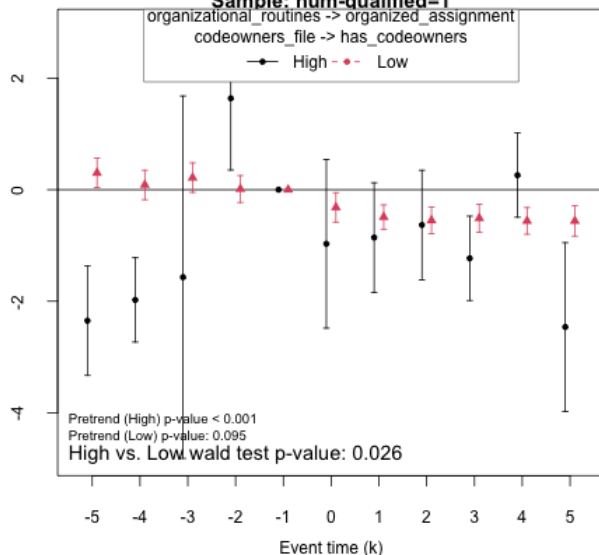


major\_minor\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
codeowners\_file -> has\_codeowners

—●— High —●— Low

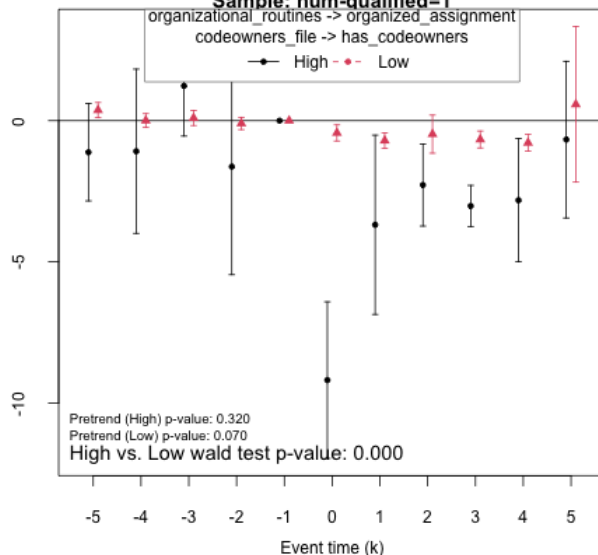


overall\_new\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
codeowners\_file -> has\_codeowners

—●— High —●— Low

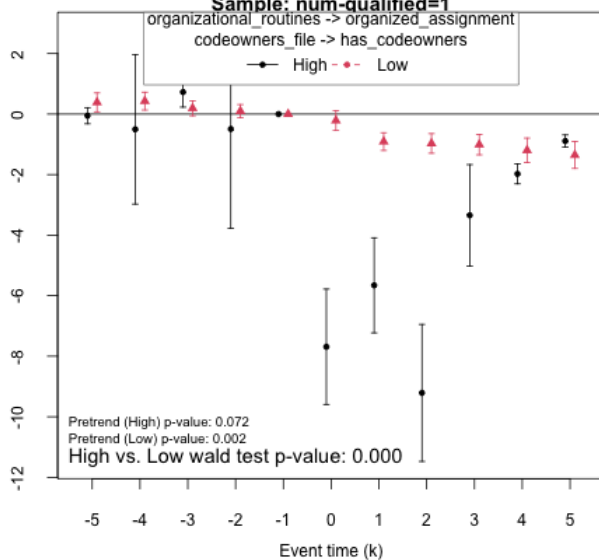


pull\_request\_merged rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
codeowners\_file -> has\_codeowners

—●— High —●— Low

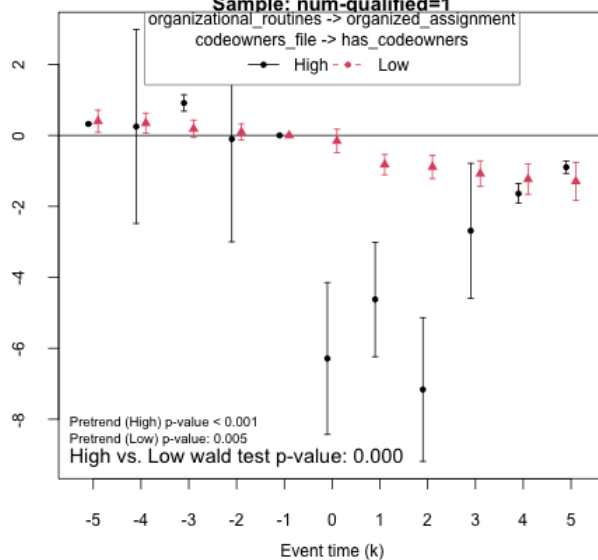


pull\_request\_opened rolling5

Sample: num-qualified=1

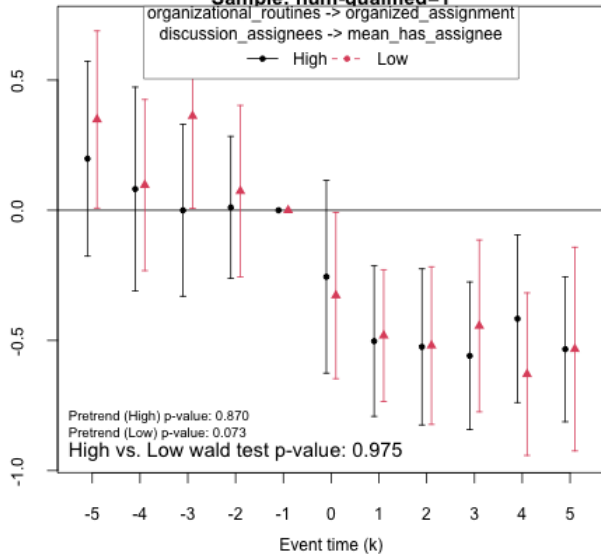
organizational\_routines -> organized\_assignment  
codeowners\_file -> has\_codeowners

—●— High —●— Low



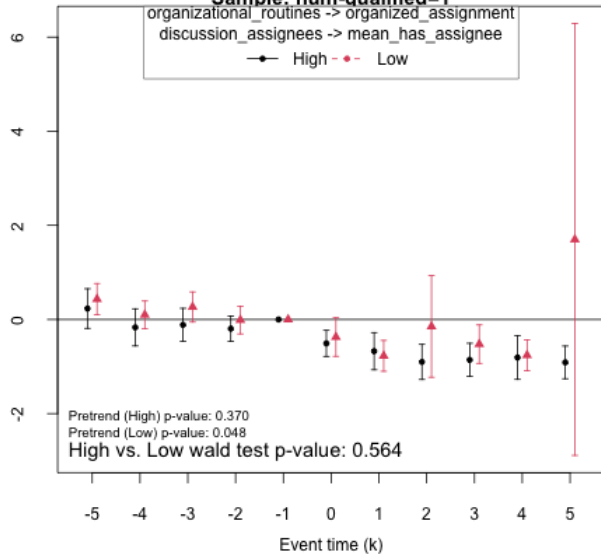
major\_minor\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
discussion\_assignees -> mean\_has\_assignee  
—●— High —●— Low

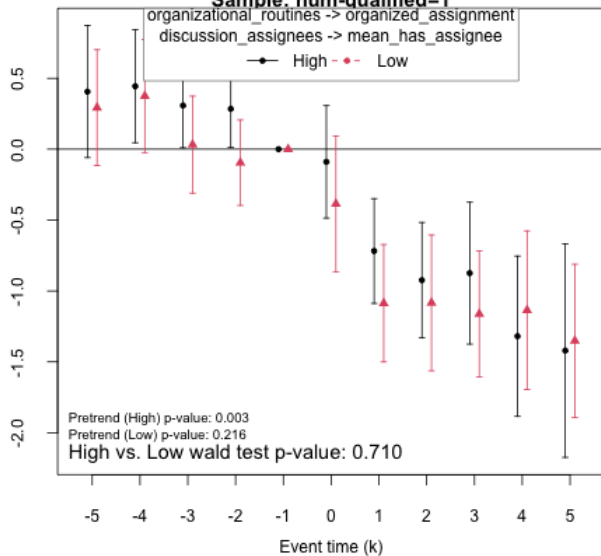
overall\_new\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
discussion\_assignees -> mean\_has\_assignee  
—●— High —●— Low

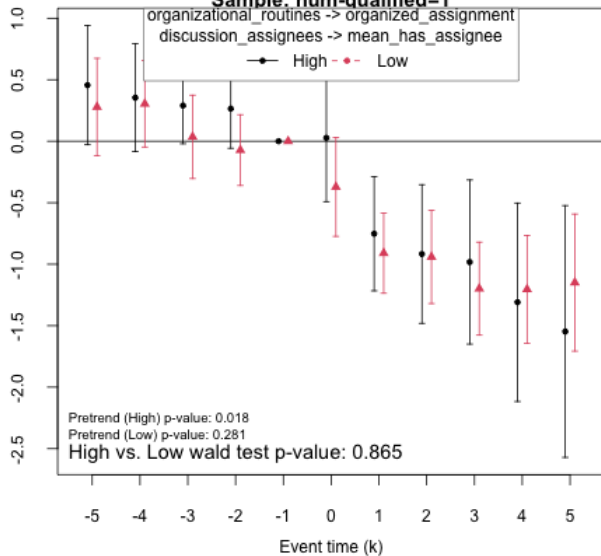
pull\_request\_merged rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
discussion\_assignees -> mean\_has\_assignee  
—●— High —●— Low

pull\_request\_opened rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
discussion\_assignees -> mean\_has\_assignee  
—●— High —●— Low

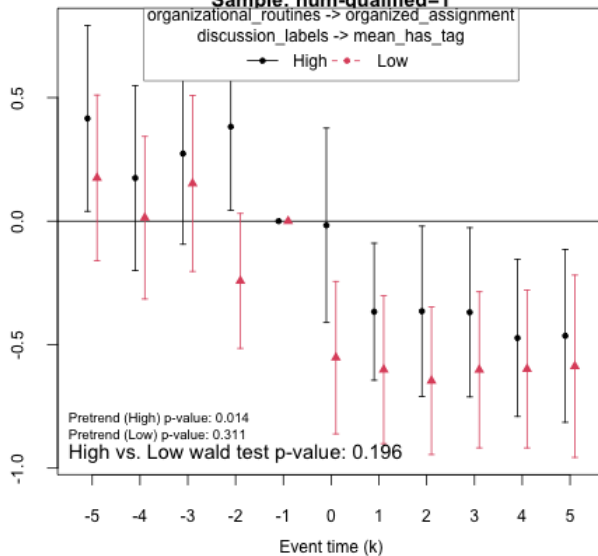


major\_minor\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
discussion\_labels -> mean\_has\_tag

—●— High —●— Low

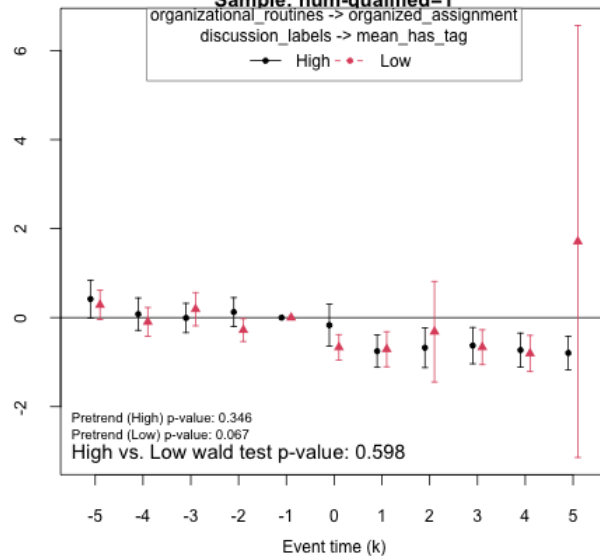


overall\_new\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
discussion\_labels -> mean\_has\_tag

—●— High —●— Low

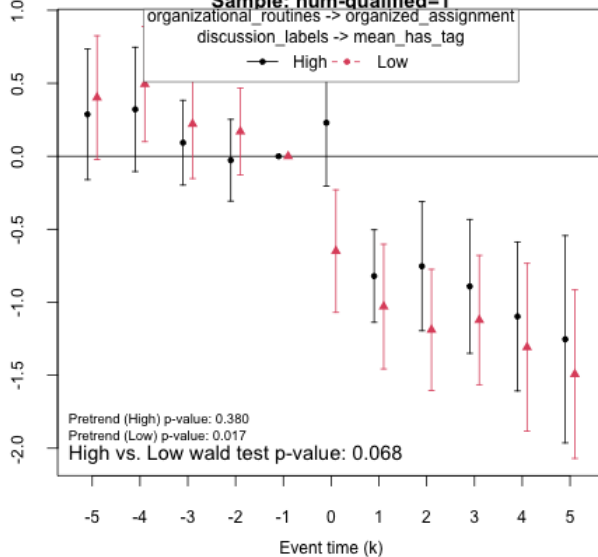


pull\_request\_merged rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
discussion\_labels -> mean\_has\_tag

—●— High —●— Low

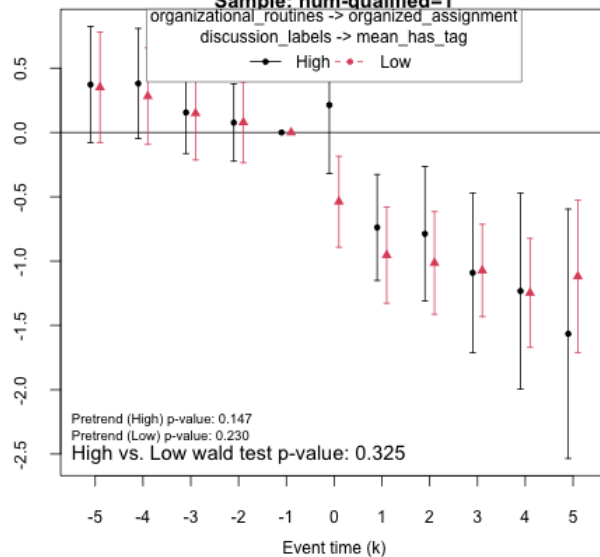


pull\_request\_opened rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_assignment  
discussion\_labels -> mean\_has\_tag

—●— High —●— Low



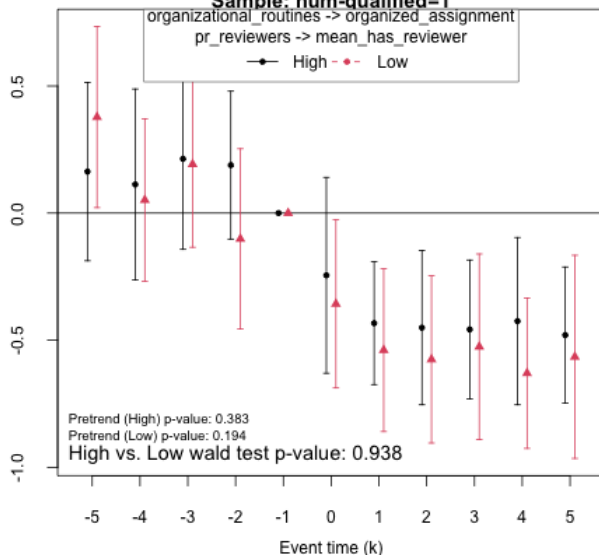
major\_minor\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -&gt; organized\_assignment

pr\_reviewers -&gt; mean\_has\_reviewer

—●— High —●— Low



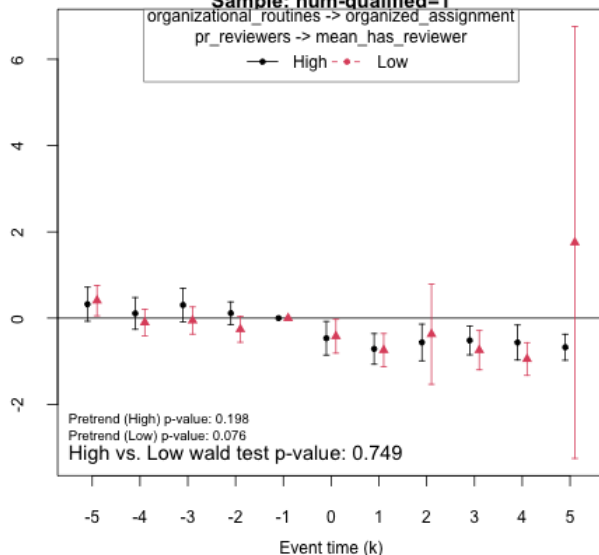
overall\_new\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -&gt; organized\_assignment

pr\_reviewers -&gt; mean\_has\_reviewer

—●— High —●— Low



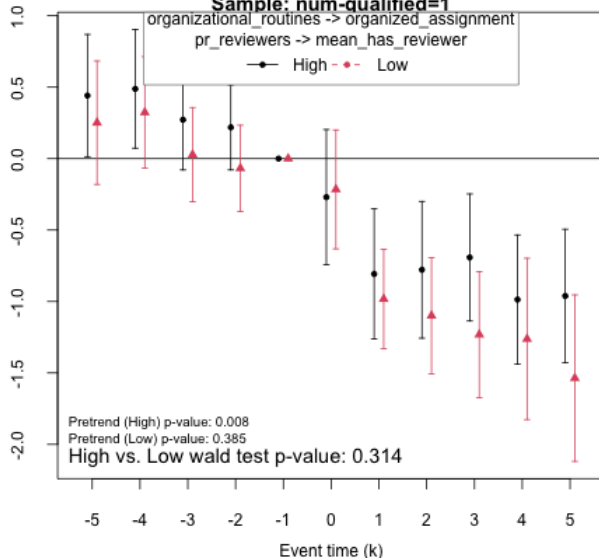
pull\_request\_merged rolling5

Sample: num-qualified=1

organizational\_routines -&gt; organized\_assignment

pr\_reviewers -&gt; mean\_has\_reviewer

—●— High —●— Low



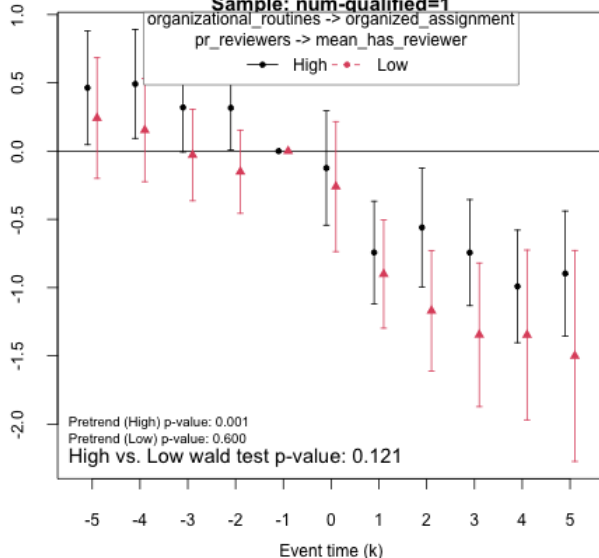
pull\_request\_opened rolling5

Sample: num-qualified=1

organizational\_routines -&gt; organized\_assignment

pr\_reviewers -&gt; mean\_has\_reviewer

—●— High —●— Low



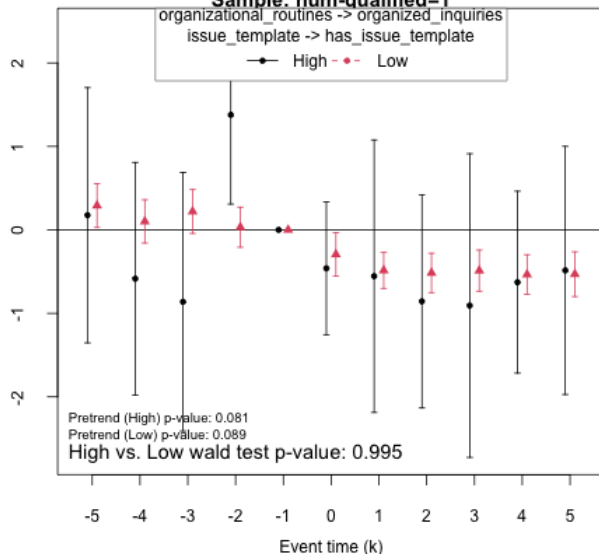
major\_minor\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -&gt; organized\_inquiries

issue\_template -&gt; has\_issue\_template

—●— High —●— Low



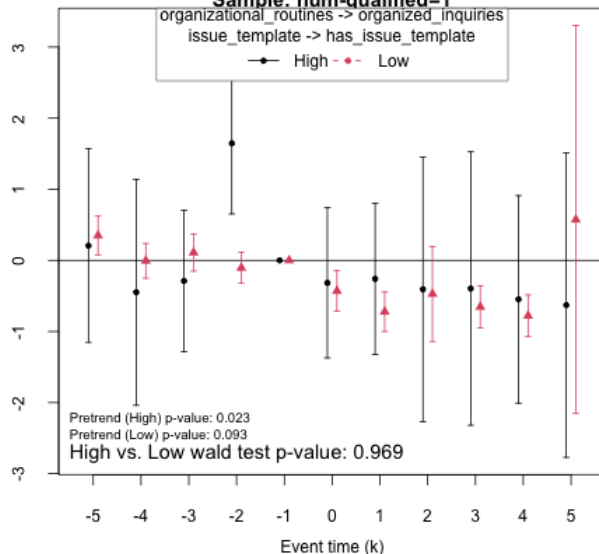
overall\_new\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -&gt; organized\_inquiries

issue\_template -&gt; has\_issue\_template

—●— High —●— Low



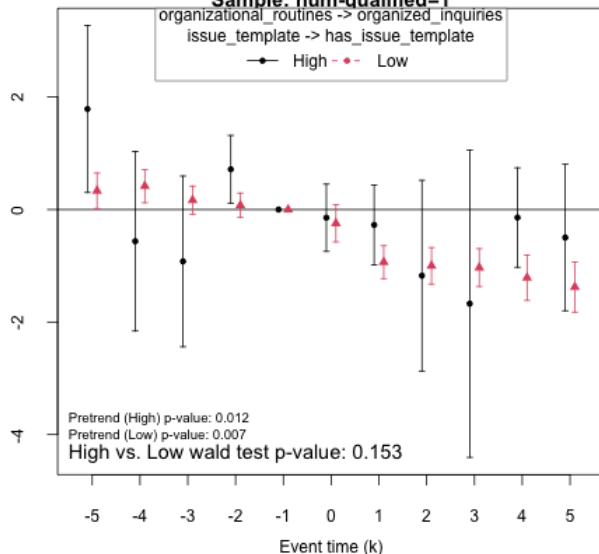
pull\_request\_merged rolling5

Sample: num-qualified=1

organizational\_routines -&gt; organized\_inquiries

issue\_template -&gt; has\_issue\_template

—●— High —●— Low



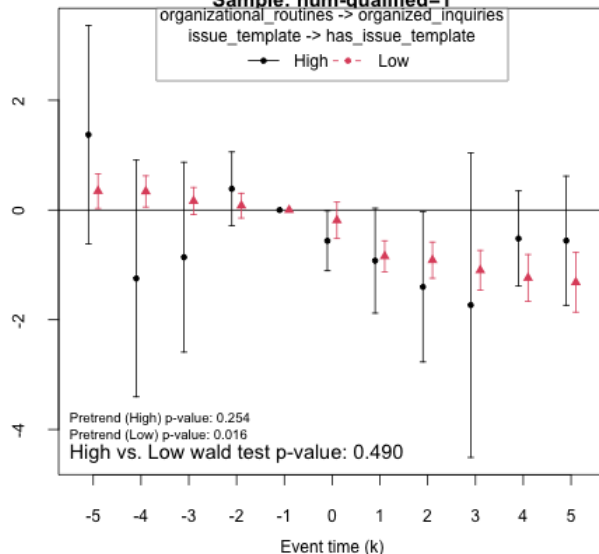
pull\_request\_opened rolling5

Sample: num-qualified=1

organizational\_routines -&gt; organized\_inquiries

issue\_template -&gt; has\_issue\_template

—●— High —●— Low

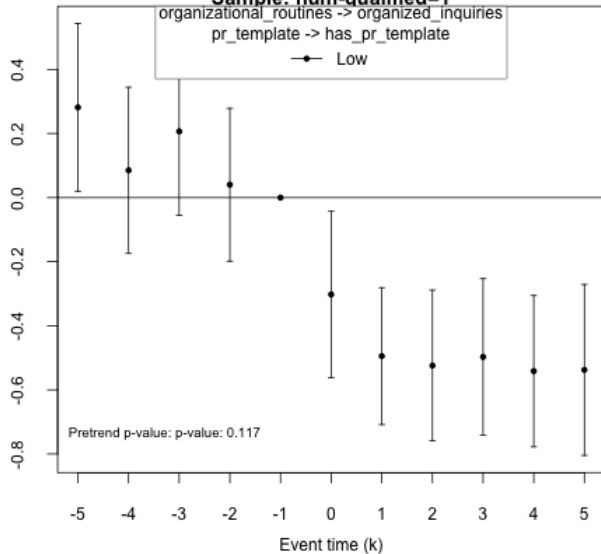


major\_minor\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_inquiries  
pr\_template -> has\_pr\_template

Low

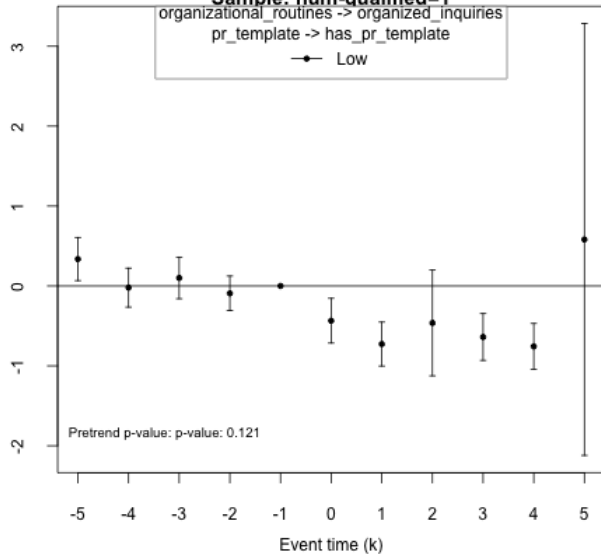


overall\_new\_release\_count rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_inquiries  
pr\_template -> has\_pr\_template

Low

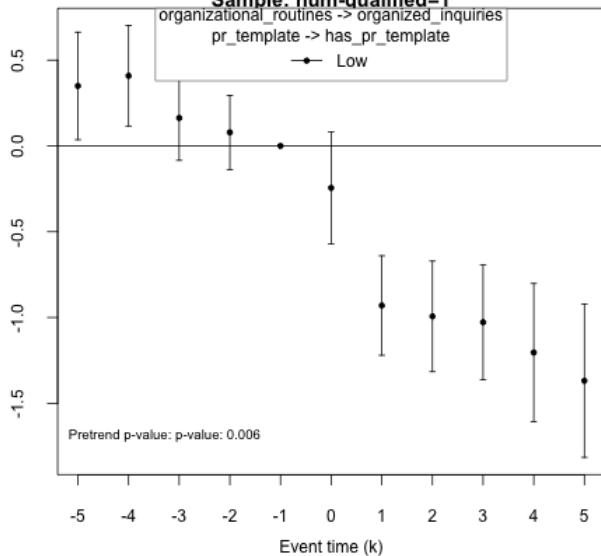


pull\_request\_merged rolling5

Sample: num-qualified=1

organizational\_routines -> organized\_inquiries  
pr\_template -> has\_pr\_template

Low

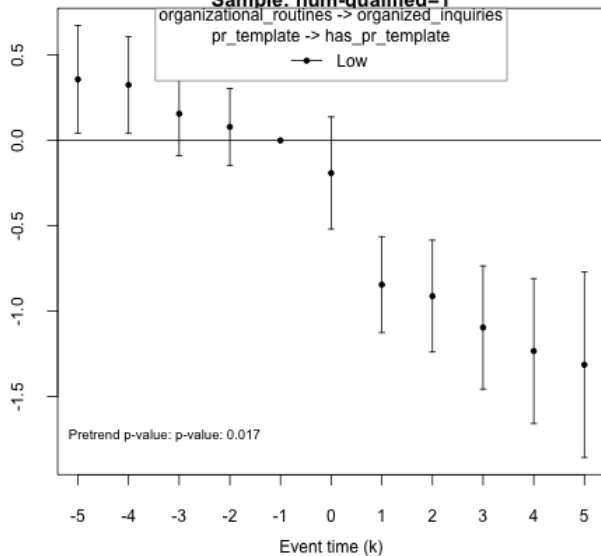


pull\_request\_opened rolling5

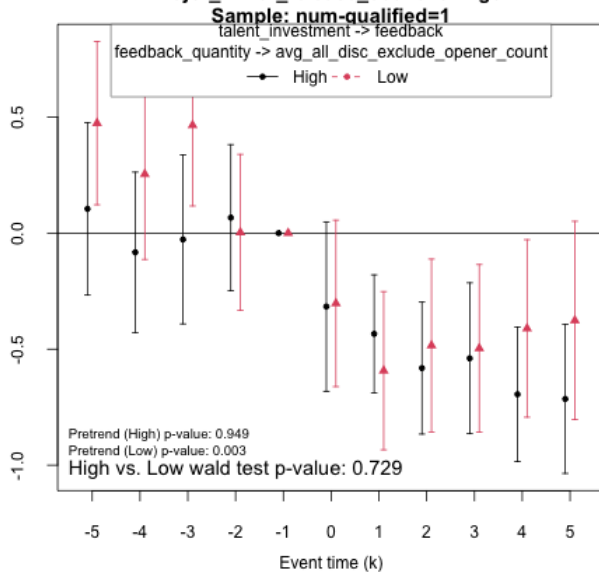
Sample: num-qualified=1

organizational\_routines -> organized\_inquiries  
pr\_template -> has\_pr\_template

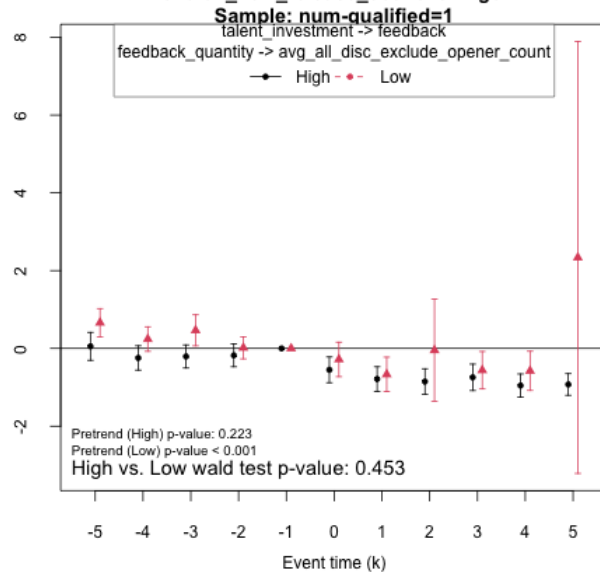
Low



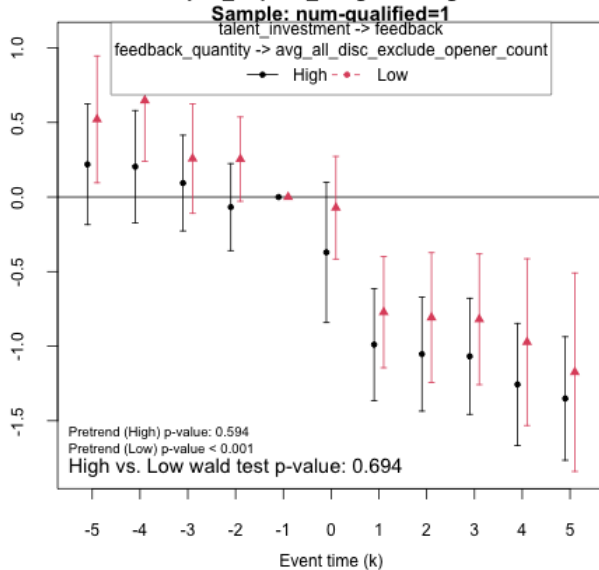
major\_minor\_release\_count rolling5



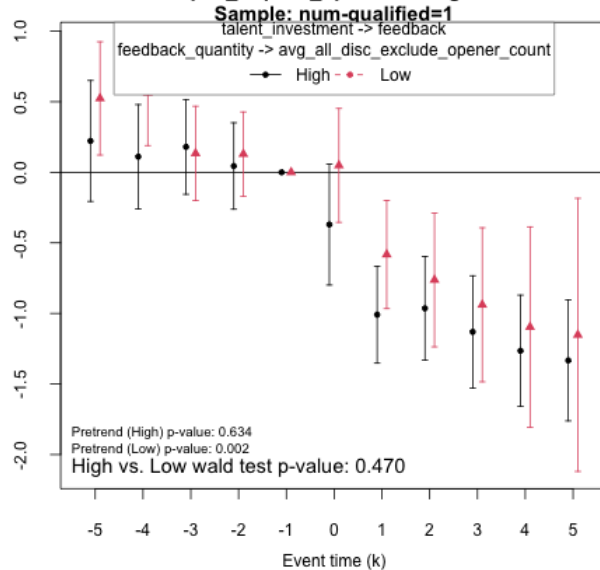
overall\_new\_release\_count rolling5



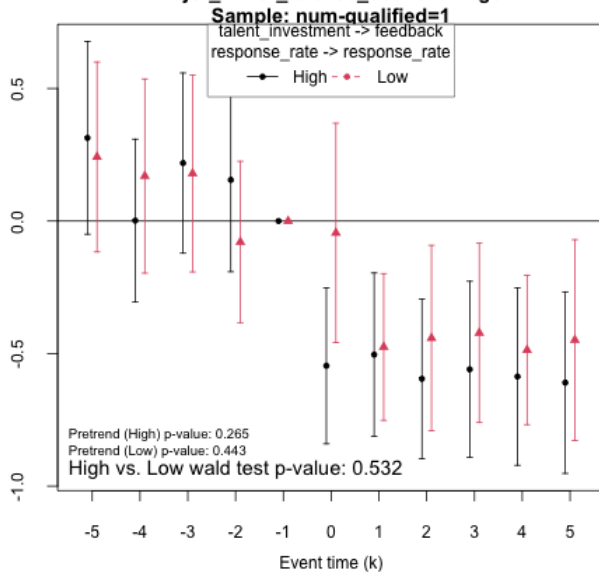
pull\_request\_merged rolling5



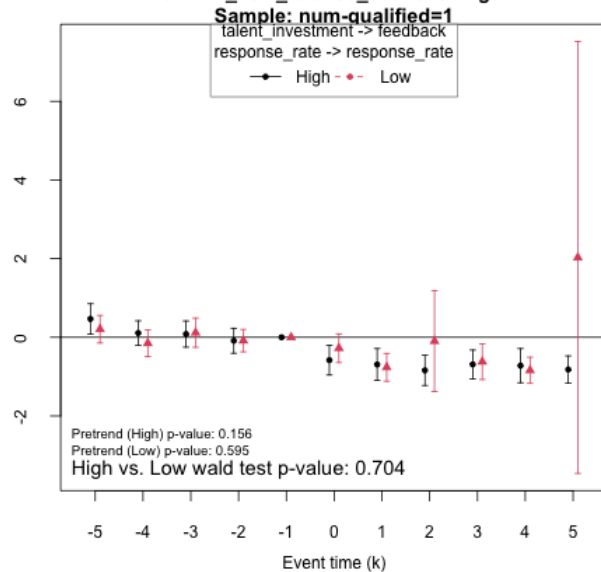
pull\_request\_opened rolling5



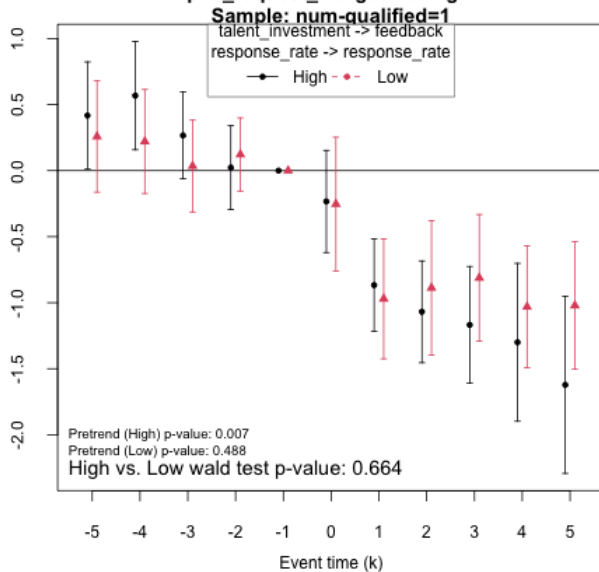
major\_minor\_release\_count rolling5



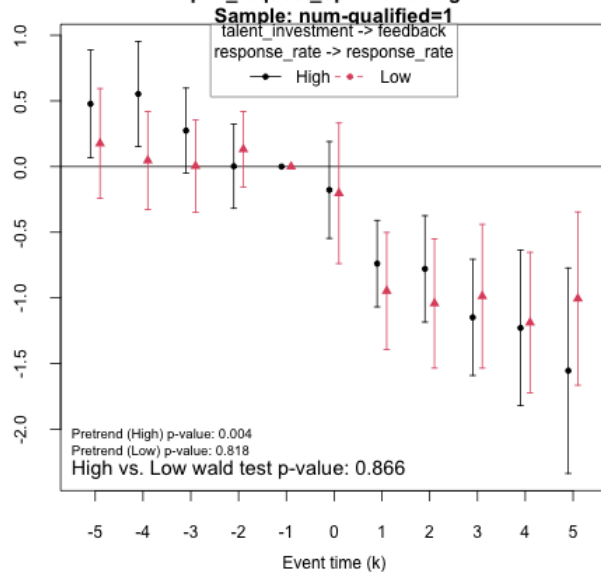
overall\_new\_release\_count rolling5



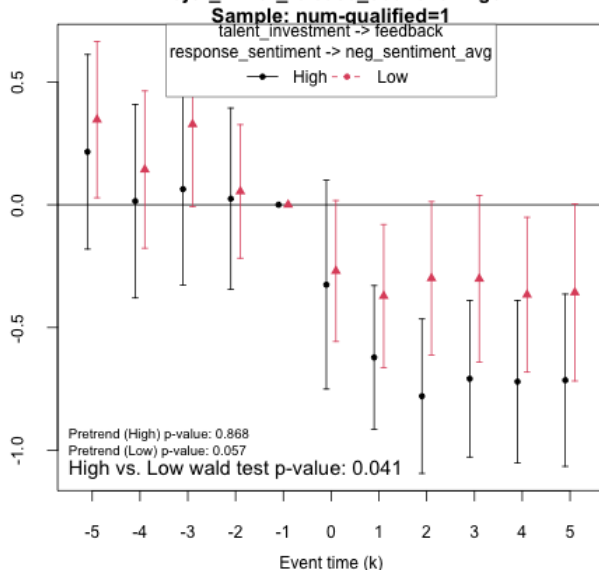
pull\_request\_merged rolling5



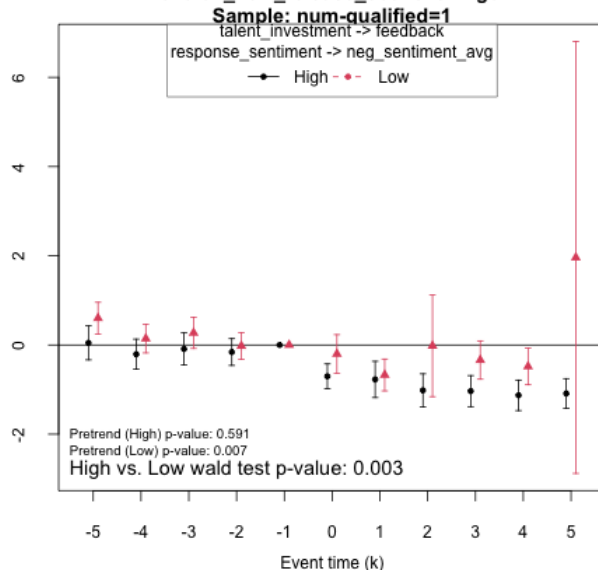
pull\_request\_opened rolling5



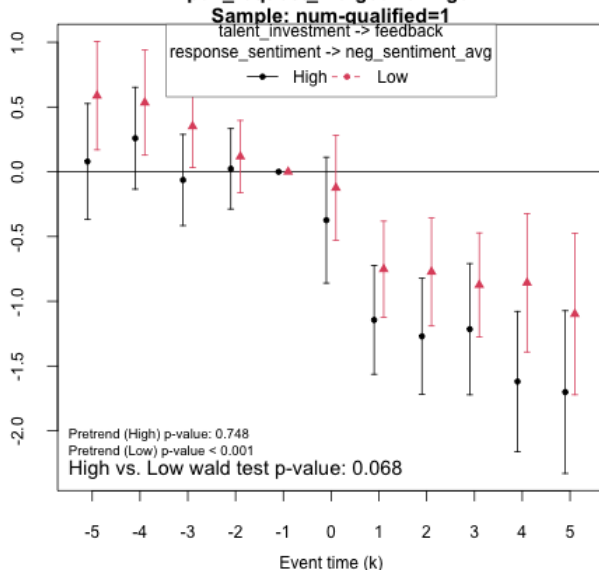
major\_minor\_release\_count rolling5



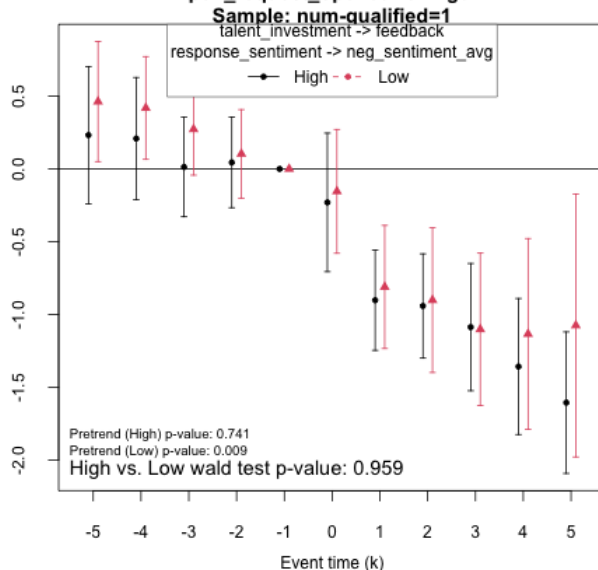
overall\_new\_release\_count rolling5



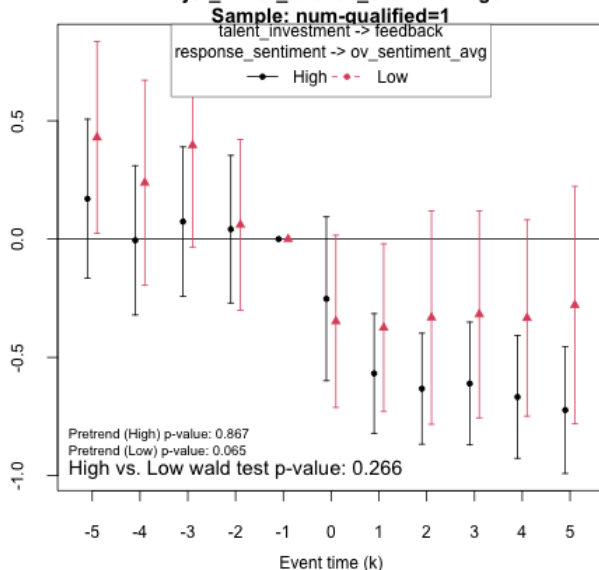
pull\_request\_merged rolling5



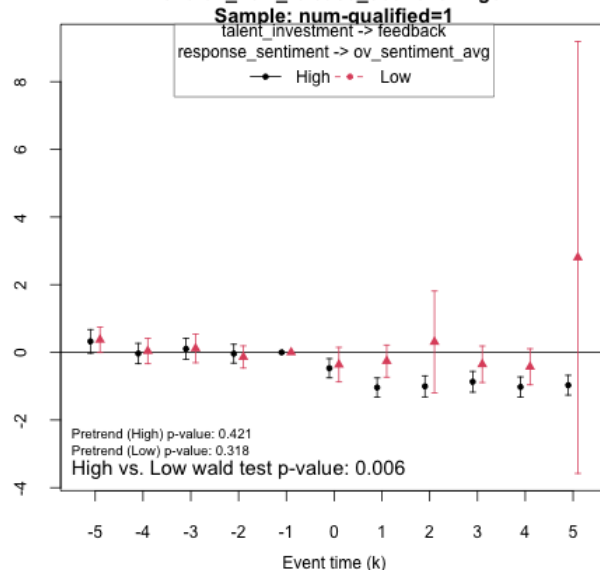
pull\_request\_opened rolling5



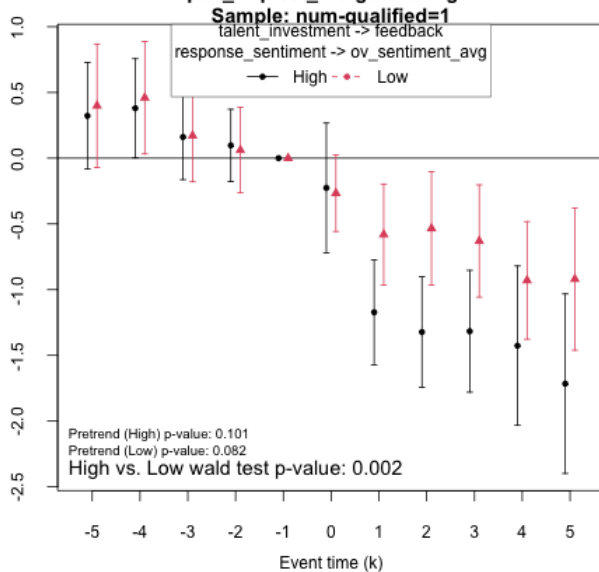
major\_minor\_release\_count rolling5



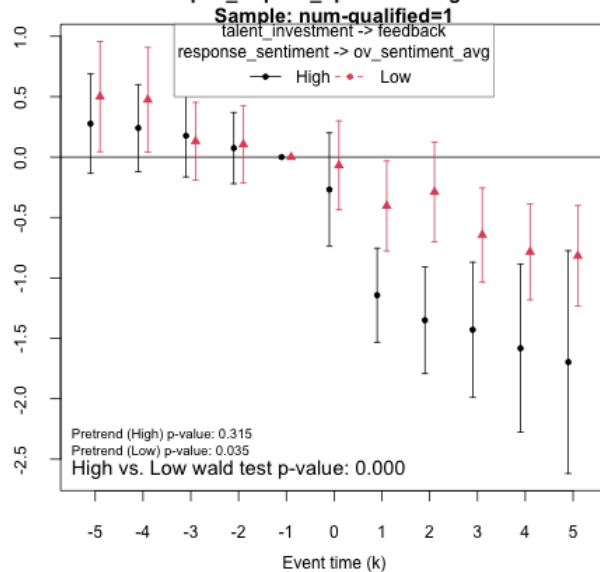
overall\_new\_release\_count rolling5



pull\_request\_merged rolling5

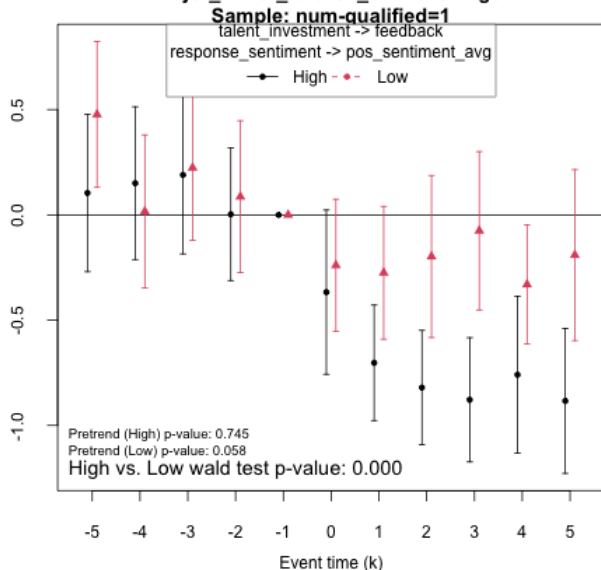


pull\_request\_opened rolling5

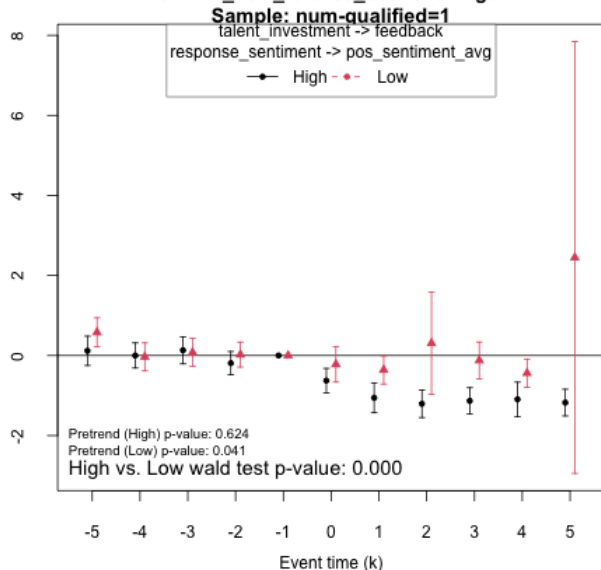




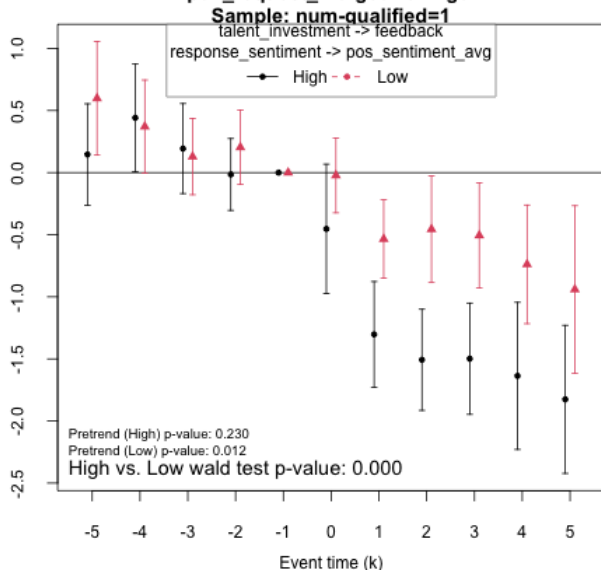
major\_minor\_release\_count rolling5



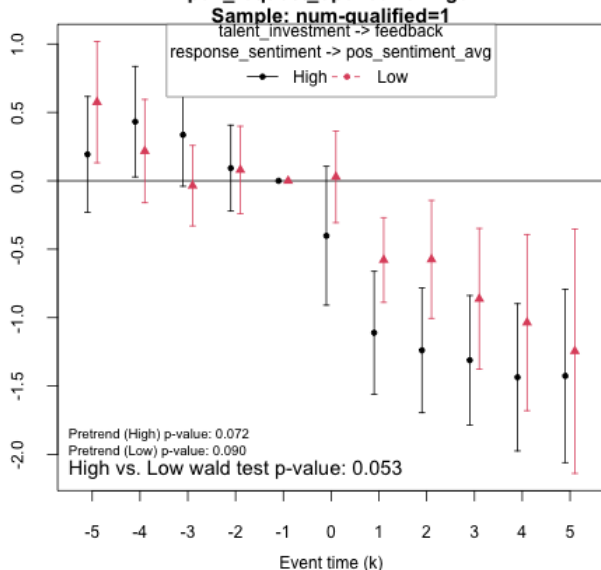
overall\_new\_release\_count rolling5



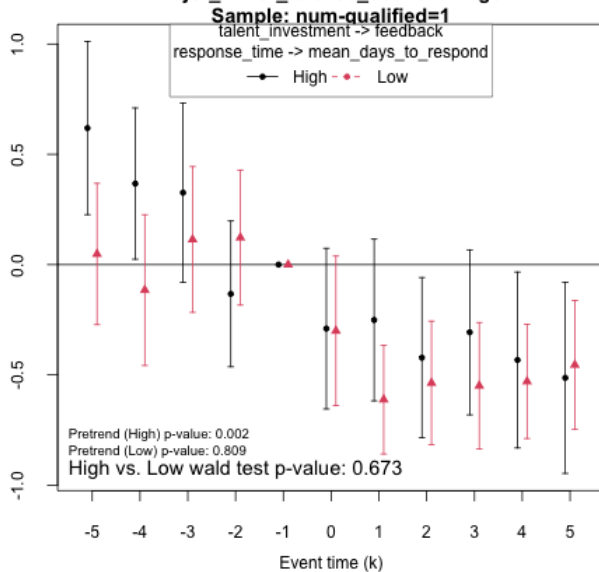
pull\_request\_merged rolling5



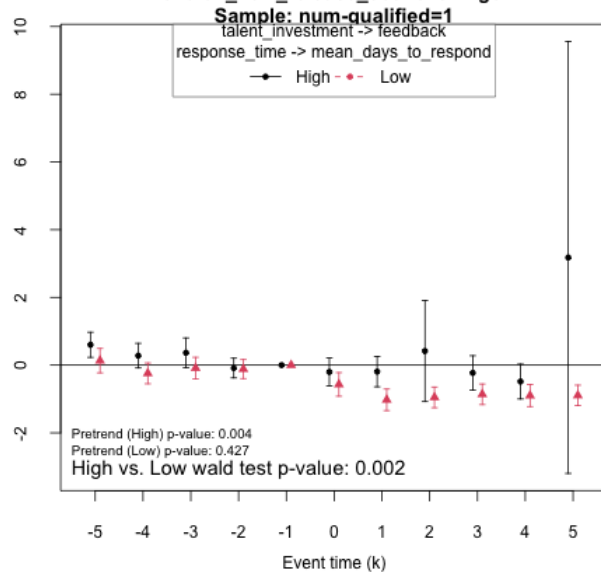
pull\_request\_opened rolling5



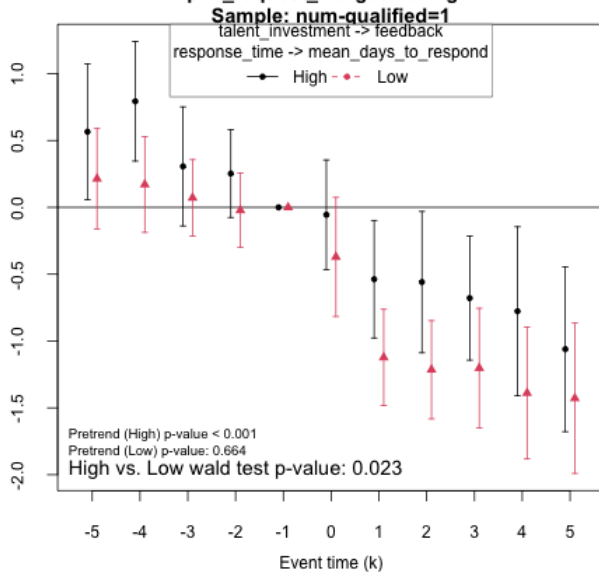
major\_minor\_release\_count rolling5



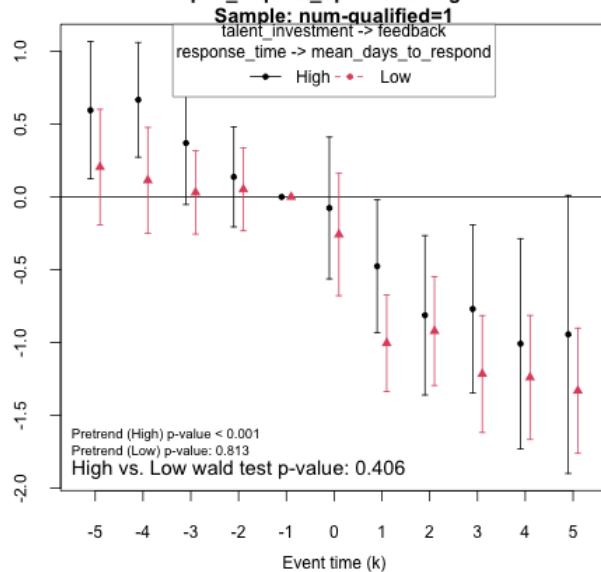
overall\_new\_release\_count rolling5



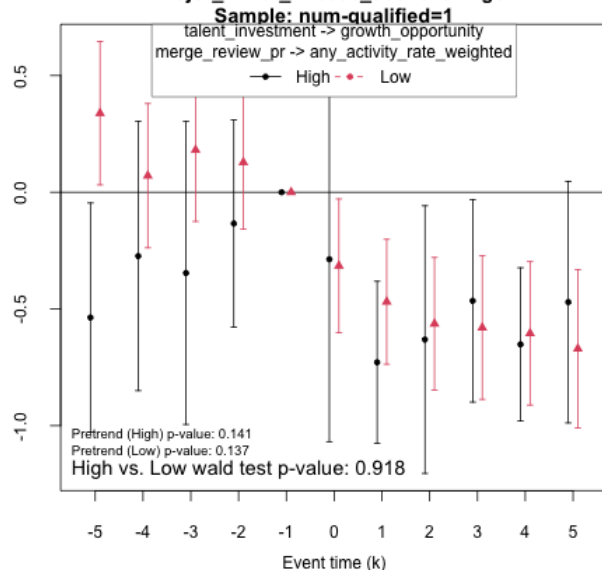
pull\_request\_merged rolling5



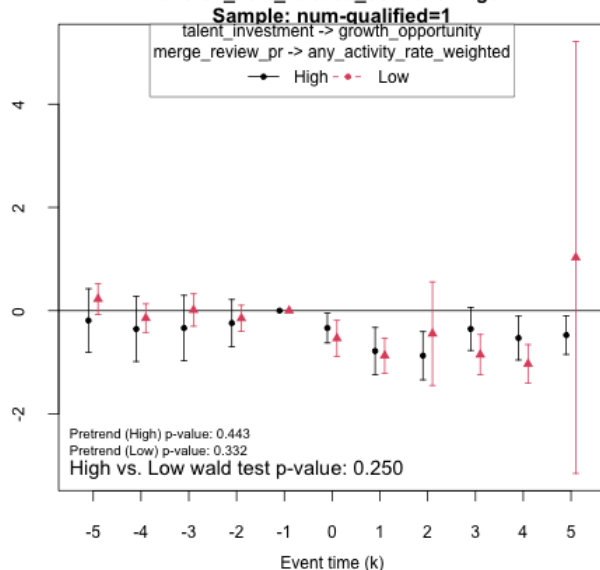
pull\_request\_opened rolling5



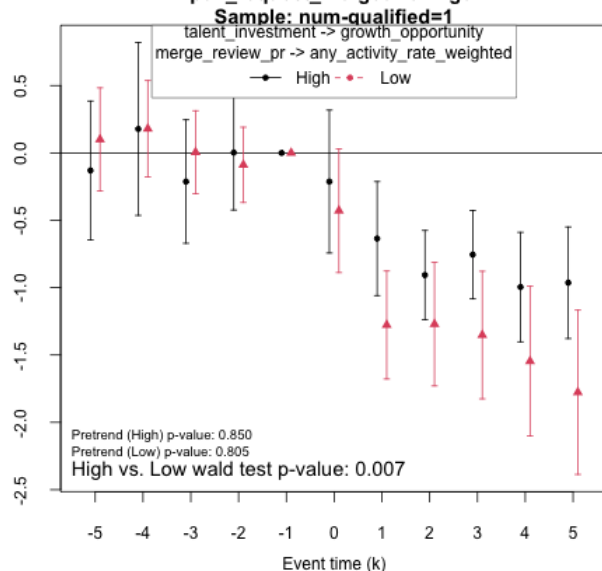
major\_minor\_release\_count rolling5



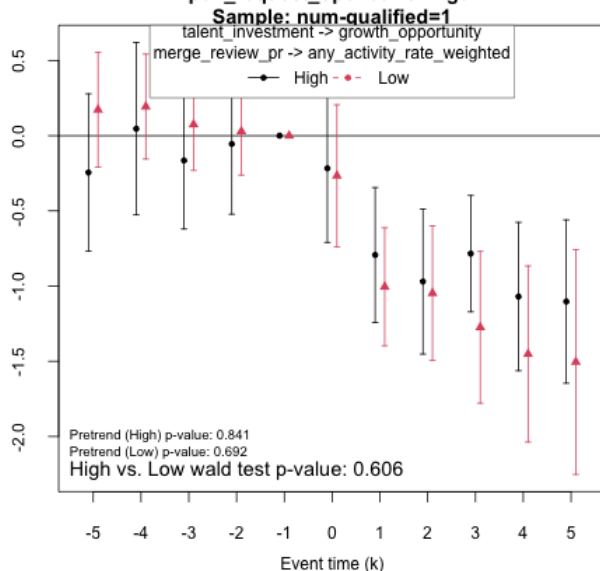
overall\_new\_release\_count rolling5



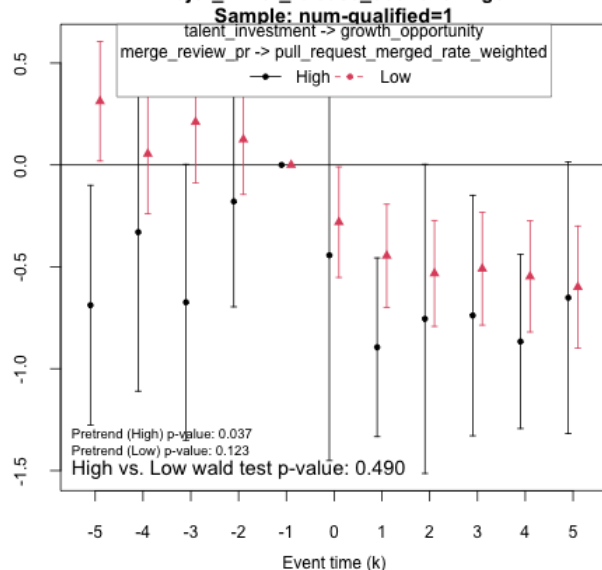
pull\_request\_merged rolling5



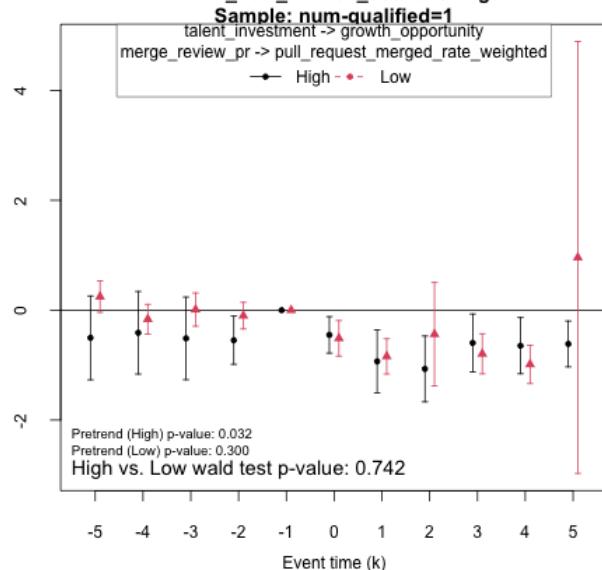
pull\_request\_opened rolling5



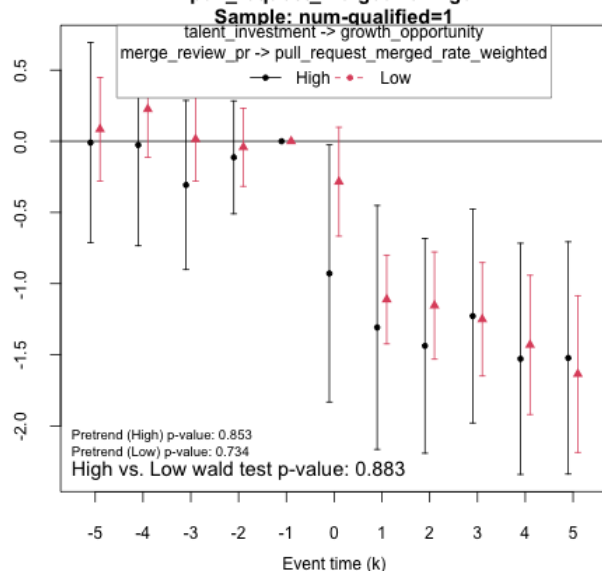
major\_minor\_release\_count rolling5



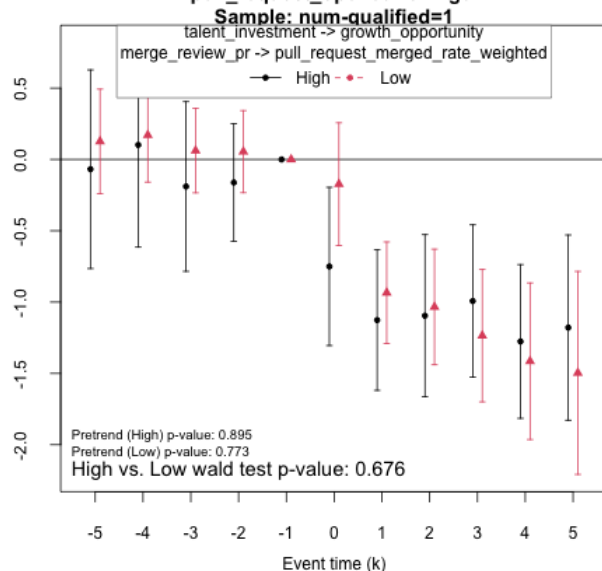
overall\_new\_release\_count rolling5



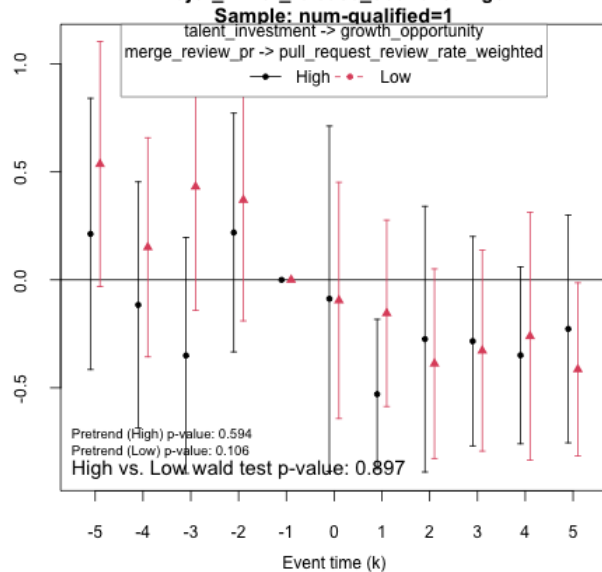
pull\_request\_merged rolling5



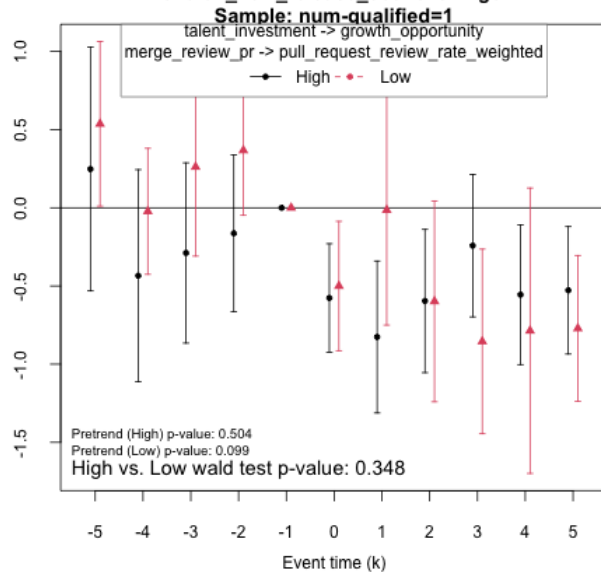
pull\_request\_opened rolling5



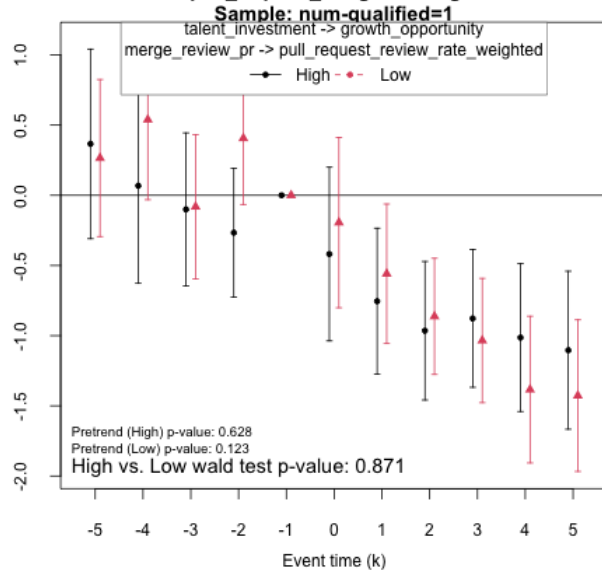
major\_minor\_release\_count rolling5



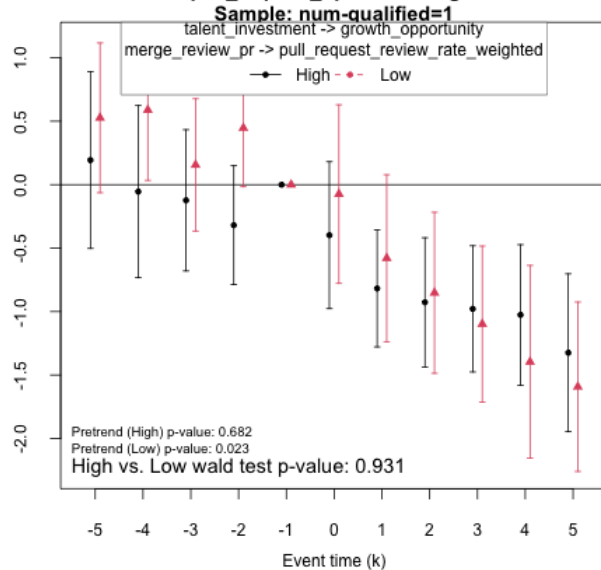
overall\_new\_release\_count rolling5



pull\_request\_merged rolling5



pull\_request\_opened rolling5



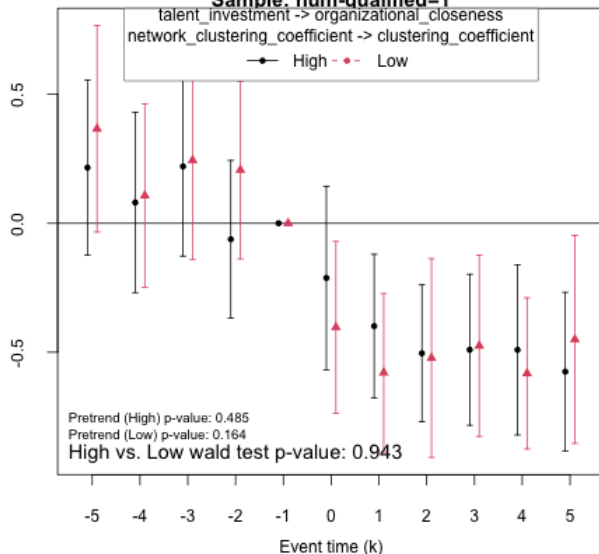
major\_minor\_release\_count rolling5

Sample: num-qualified=1

talent\_investment -&gt; organizational\_closeness

network\_clustering\_coefficient -&gt; clustering\_coefficient

—●— High —●— Low



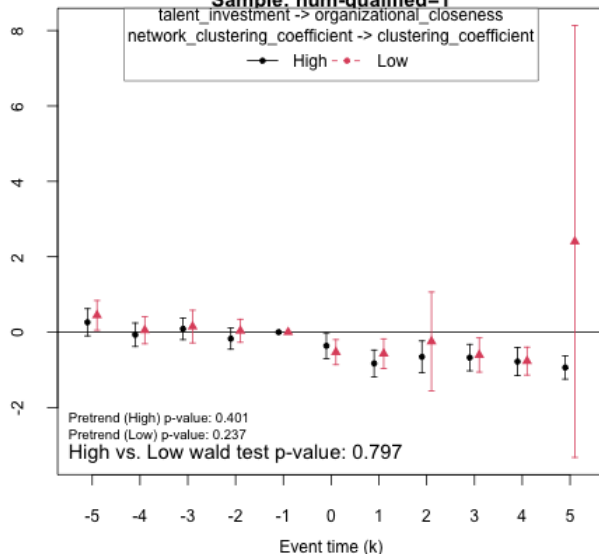
overall\_new\_release\_count rolling5

Sample: num-qualified=1

talent\_investment -&gt; organizational\_closeness

network\_clustering\_coefficient -&gt; clustering\_coefficient

—●— High —●— Low



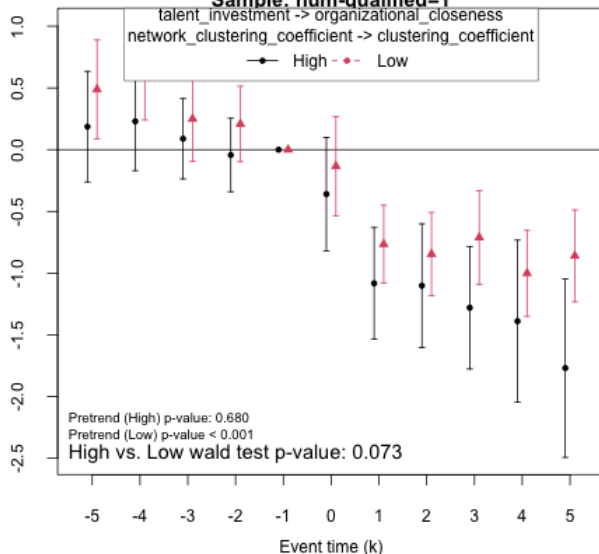
pull\_request\_merged rolling5

Sample: num-qualified=1

talent\_investment -&gt; organizational\_closeness

network\_clustering\_coefficient -&gt; clustering\_coefficient

—●— High —●— Low



pull\_request\_opened rolling5

Sample: num-qualified=1

talent\_investment -&gt; organizational\_closeness

network\_clustering\_coefficient -&gt; clustering\_coefficient

—●— High —●— Low

