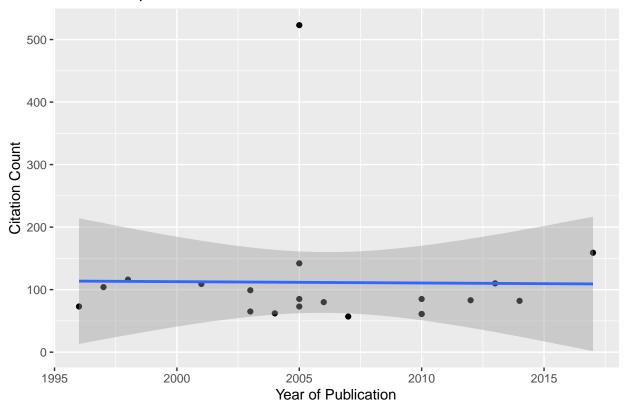
R. Notebook

```
library(tidyverse)
## -- Attaching packages -----
## v ggplot2 3.2.1
                     v purrr
                                 0.3.3
## v tibble 2.1.3 v dplyr 0.8.3
## v tidvr 1.0.0
                      v stringr 1.4.0
## v readr
           1.3.1
                     v forcats 0.4.0
## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
library(httr)
library(rvest)
## Loading required package: xml2
##
## Attaching package: 'rvest'
## The following object is masked from 'package:purrr':
##
##
      pluck
## The following object is masked from 'package:readr':
##
##
       guess_encoding
Load necessary libraries.
# Input the url from which I will be scraping data (Stuart Carr's Google
# Scholar profile)
schol_html <- read_html("https://scholar.google.com/citations?user=gVWAWMOAAAAJ&hl=en&oi=ao")</pre>
# Use a function from the rvest package to pull nodes from the previously
# specified URL that matches a given CSS selector
# The CSS selector identifies the title, author, year, and citation count
# of the first 20 articles on the profile identified above
schol_nodes <- html_nodes(schol_html, css = "#gsc_a_b .gs_ibl , .gsc_a_at+ .gs_gray , .gsc_a_at")</pre>
# Extract the text from the nodes
node_text <- html_text(schol_nodes)</pre>
# From the full text, separate the title, author, year, and citation count
title <- node_text[seq(1, length(node_text), 4)]</pre>
author <- node_text[seq(2, length(node_text), 4)]</pre>
```

```
cite <- as.numeric(node_text[seq(3, length(node_text), 4)])</pre>
year <- as.numeric(node_text[seq(4, length(node_text), 4)])</pre>
# Bind the title, author, year, and citation count vectors into a tibble
profile_tbl <- bind_cols(title = title, authors = author, year = year, citations = cite)</pre>
profile.cor <- cor.test(profile_tbl$year, profile_tbl$citations)</pre>
profile.cor
##
## Pearson's product-moment correlation
##
## data: profile_tbl$year and profile_tbl$citations
## t = -0.051263, df = 18, p-value = 0.9597
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.4521852 0.4327525
## sample estimates:
##
           cor
## -0.01208203
```

The correlation between when an article (from this specific set of articles) was published and its citation count is -0.012082.





This plot shows the relationship between year of publication and citation count, along with the least squares regression line between them.