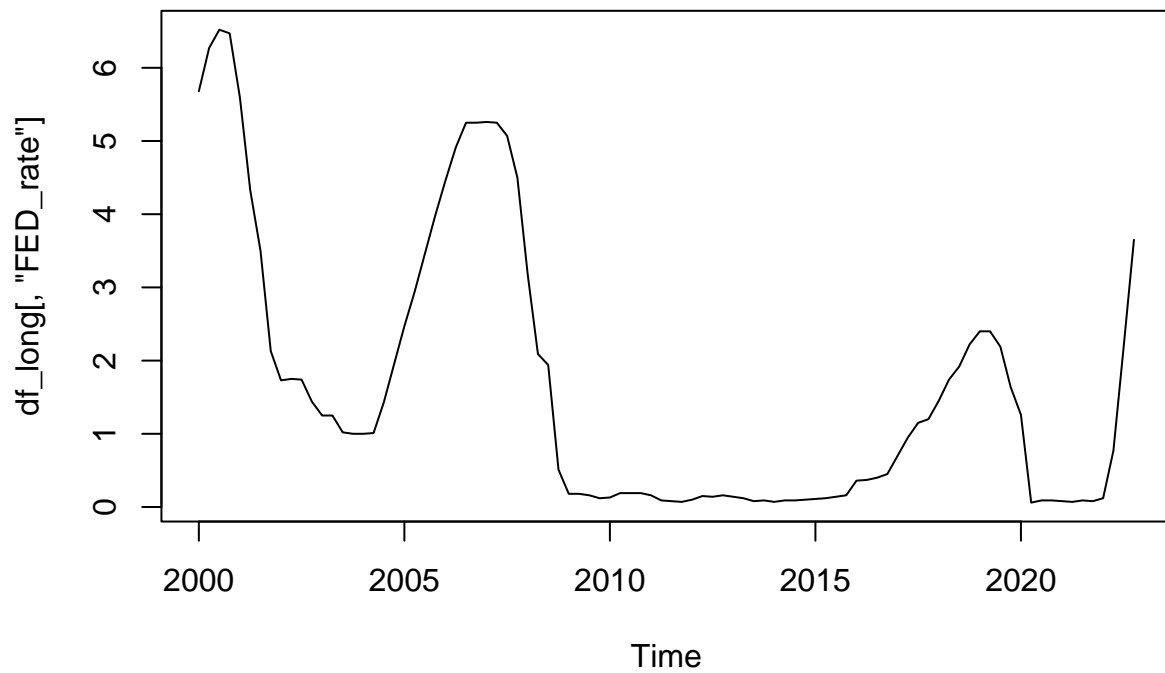


# Homework Metrics 2b: Federal Reserve's interest rates and global outstanding credit. A univariate and multivariate analysis

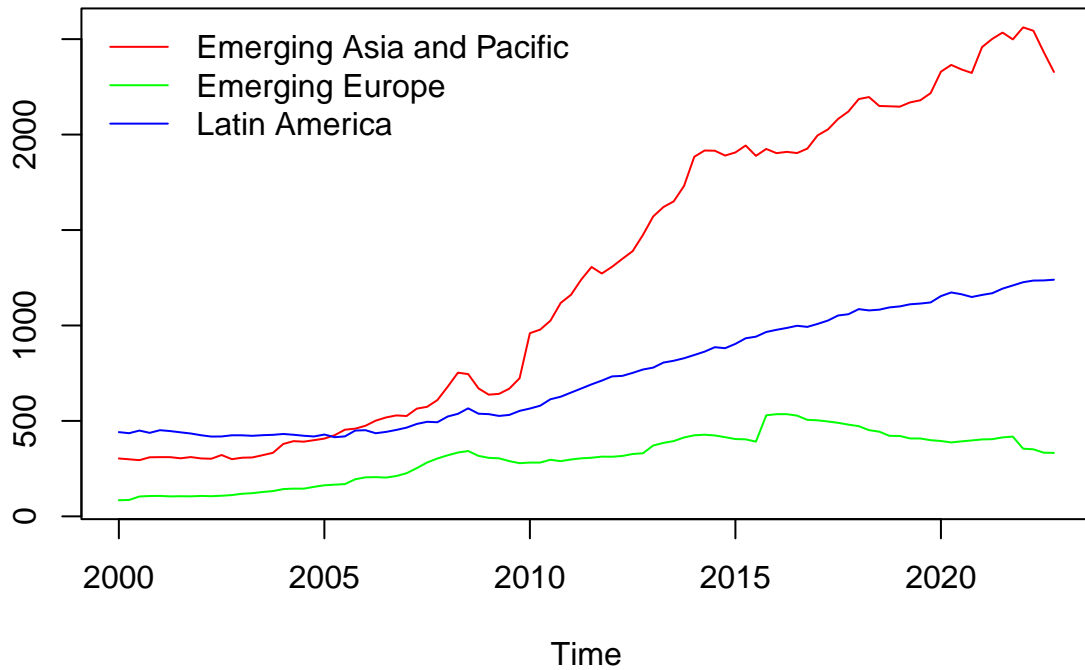
Valentin Auplat, Nino Laffray

May 2025

```
knitr::opts_chunk$set(  
  echo = TRUE,  
  warning = FALSE,  
  message = FALSE  
)
```



plot, c("Emerging Asia and Pacific", "Emerging Europe", "Latin A



```
library(urca)
library(zoo)
library(forecast)
df_long <- ts(df_long, start=c(2000, 1), frequency=4)
# 2.1 ADF Test (Augmented Dickey-Fuller)
#adf_test <- ur.df(df_long, type = "trend", lags = 4) # Try "drift" or "none" too
#summary(adf_test)

# 2.2 PP Test (Phillips-Perron)
#pp_test <- ur.pp(df_long, type = "Z-tau", model = "trend", lags = "short")
#summary(pp_test)

# 2.3 KPSS Test (Stationarity)
#kpss_test <- ur.kpss(df_long, type = "tau", lags = "short")
#summary(kpss_test)
```