figure1

Desmond Chen

```
library(here)
```

```
here() starts at /Users/apple/Documents/chl8010class2/armed_conflict
```

```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
v dplyr     1.1.4     v readr     2.1.5
v forcats   1.0.0     v stringr   1.5.1
v ggplot2   3.4.4     v tibble    3.2.1
v lubridate 1.9.3     v tidyr     1.3.1
v purrr     1.0.2
```

```
-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to becor
```

```
finaldata <- read.csv(here("data", "finaldata.csv"), header = TRUE)
finaldata$earthquake[is.na(finaldata$earthquake)] <- 0
finaldata$drought[is.na(finaldata$drought)] <- 0
finaldata$conflict <- as.factor(finaldata$conflict)
finaldata$drought <- as.factor(finaldata$drought)
finaldata$earthquake <- as.factor(finaldata$earthquake)
finaldata$OECD <- as.factor(finaldata$OECD)
finaldata$conflict <- ifelse(finaldata$conflict == 1, "Conflict", "No Conflict")
```

```r
f1d <- finaldata |>
  dplyr::select(Country.Name, ISO, year, MatMor) |>
  dplyr::filter(year < 2018) |>
  arrange(ISO, year) |>
  group_by(ISO) |>
  mutate(diffmatmor = MatMor - MatMor[1L])
f1dl <- na.omit(f1d$ISO[f1d$diffmatmor > 0 & f1d$year == 2017])
```

```r
f1d <- f1d[f1d$ISO %in% f1dl,]
f1d |>
  ggplot(aes(x = year, y = MatMor, group = ISO)) +
  geom_line(aes(color = as.factor(Country.Name)), alpha = 0.5) +
  xlim(c(2000,2019)) +
  scale_y_continuous(trans='log10') +
  labs(y = "Maternal mortality", x = "Year", color = "Country Name") +
  theme_bw()
```