

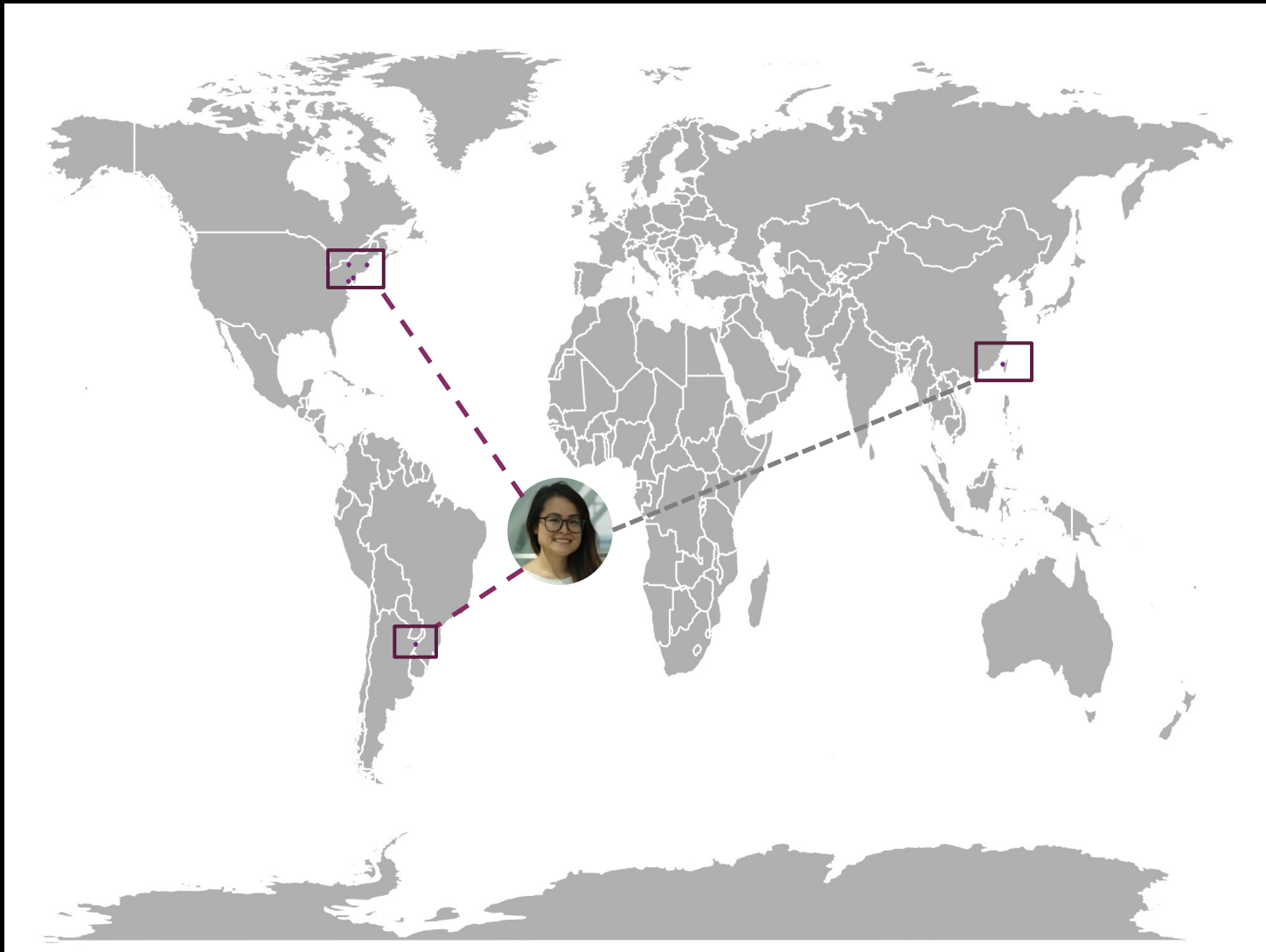
GROWING UP IN R

Michelle Chiu

Temple PhD Candidate

 @leanmeanmishine

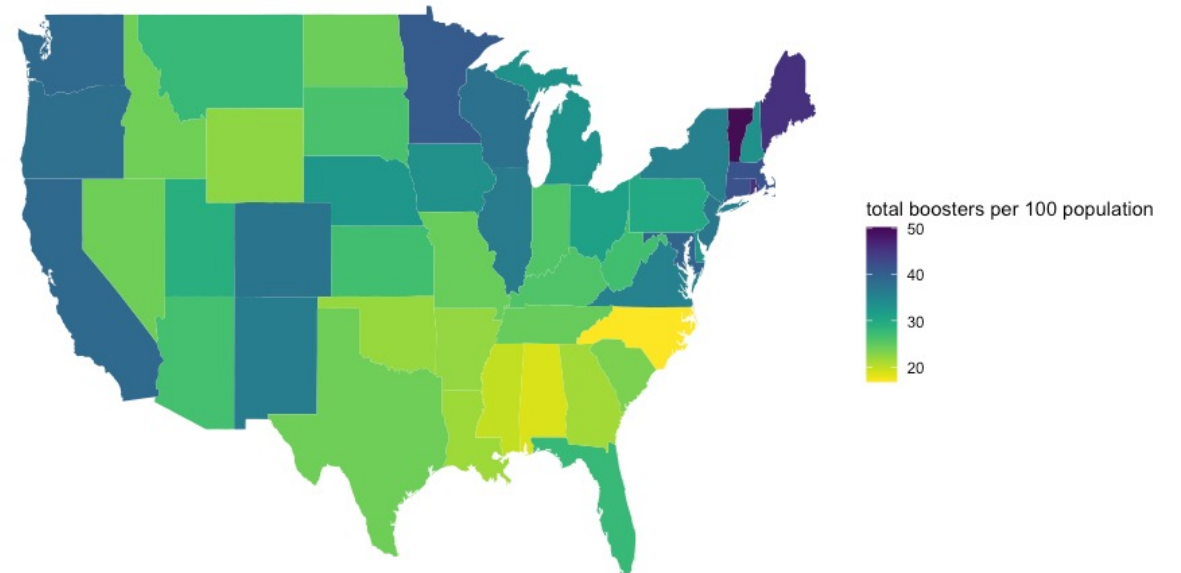
BRIDGING SPACES: MY BACKGROUND



- Taiwanese Argentinian
- Traveled to the US at age 15
- 3 cultures / languages

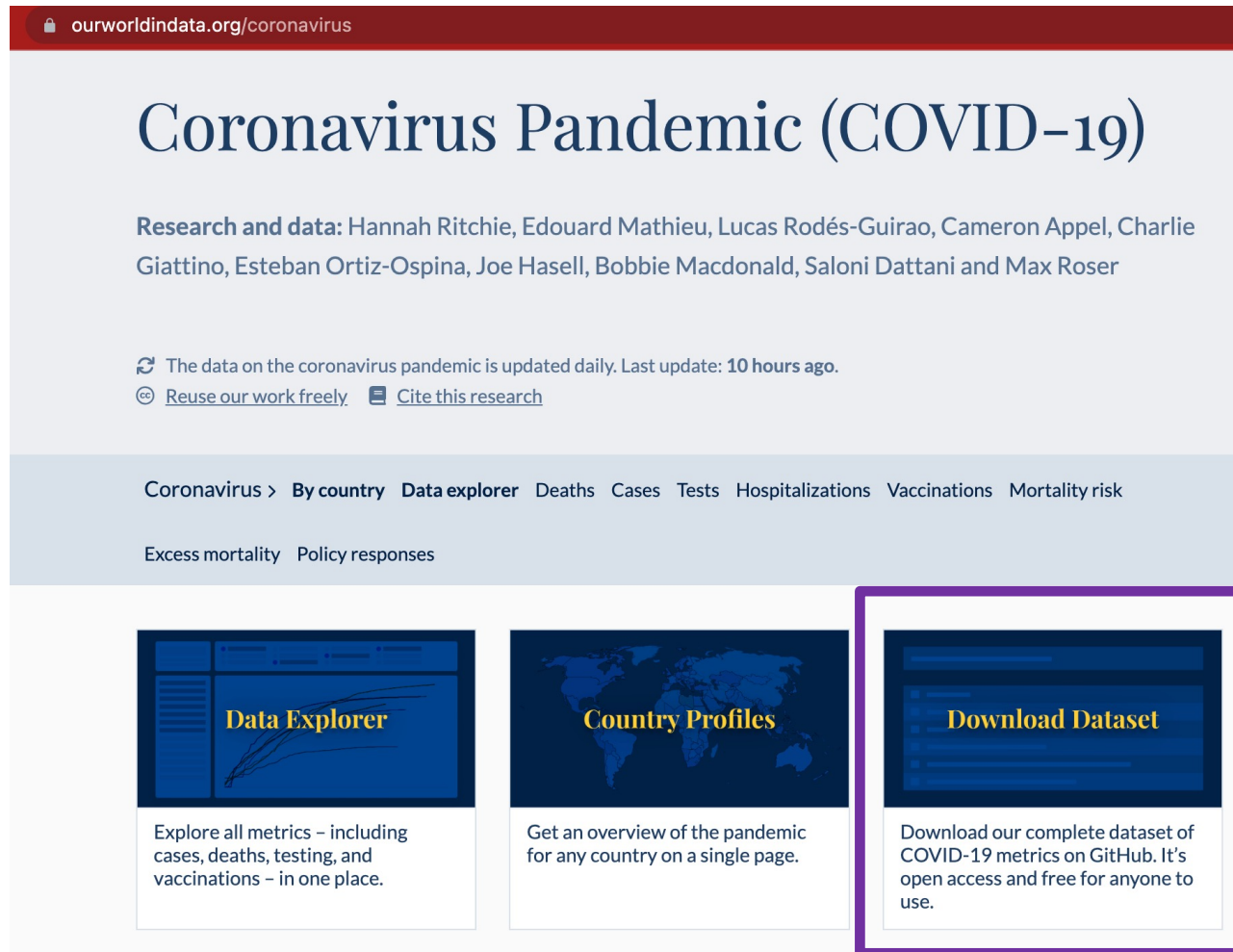
TEACHING OTHERS: CODING IN R

```
ggplot(data = today_covid_map_all,  
       aes(x = long, y = lat)) +  
  geom_map(data = today_covid_map_all, map = us_map,  
          aes(fill = total_boosters_per_hundred, map_id = region)) +  
  scale_fill_viridis(name = "total boosters per 100 population",  
                    option = "D", direction = -1) +  
  theme_void()
```



TEACHING OTHERS: CODING IN R

GET THE DATA



ourworldindata.org/coronavirus

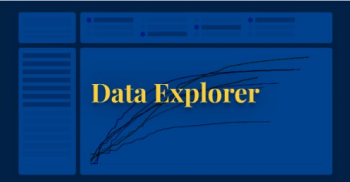
Coronavirus Pandemic (COVID-19)

Research and data: Hannah Ritchie, Edouard Mathieu, Lucas Rodés-Guirao, Cameron Appel, Charlie Giattino, Esteban Ortiz-Ospina, Joe Hasell, Bobbie Macdonald, Saloni Dattani and Max Roser

🔄 The data on the coronavirus pandemic is updated daily. Last update: 10 hours ago.
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Coronavirus > **By country** Data explorer Deaths Cases Tests Hospitalizations Vaccinations Mortality risk

Excess mortality Policy responses



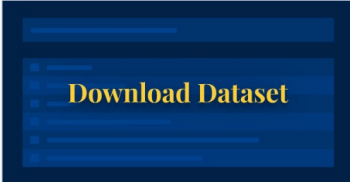
Data Explorer

Explore all metrics – including cases, deaths, testing, and vaccinations – in one place.



Country Profiles

Get an overview of the pandemic for any country on a single page.



Download Dataset

Download our complete dataset of COVID-19 metrics on GitHub. It's open access and free for anyone to use.

TEACHING OTHERS: CODING IN R

PEEK AT THE DATA

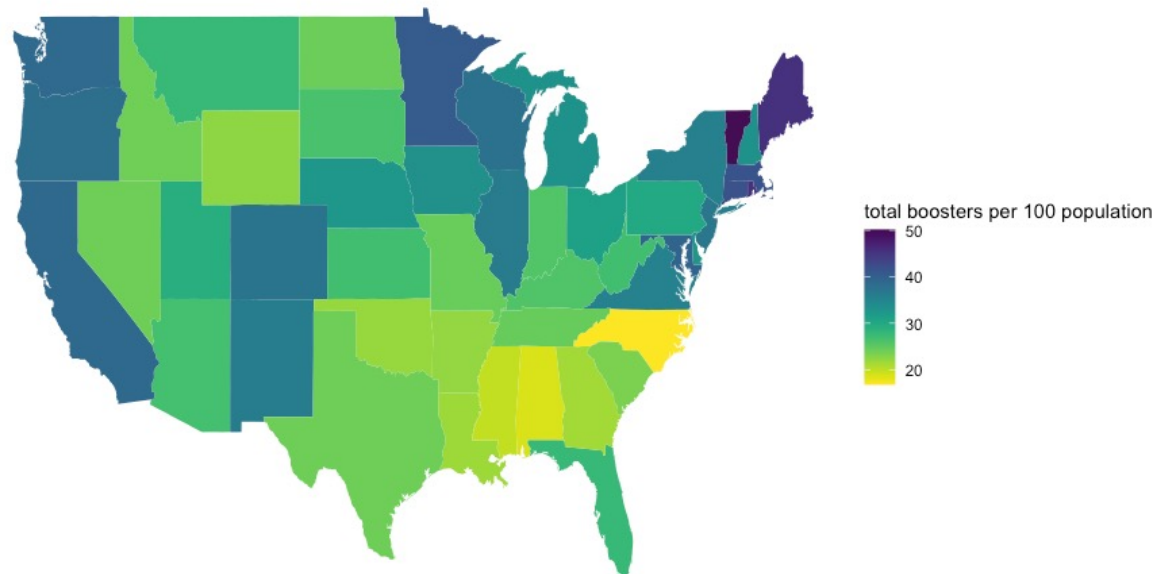
```
glimpse(today_covid_map_all)
```

```
## Rows: 15,537
## Columns: 21
## $ region      <chr> "alabama", "alabama", "alabama", "...
## $ long        <dbl> -87.46201, -87.48493, -87.52503, -...
## $ lat         <dbl> 30.38968, 30.37249, 30.37249, 30.3...
## $ group       <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...
## $ order       <int> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,...
## $ subregion   <chr> NA, NA, NA, NA, NA, NA, NA, NA, NA...
## $ date        <date> 2022-06-05, 2022-06-05, 2022-06-0...
## $ total_vaccinations <dbl> 6378479, 6378479, 6378479, 6378479...
## $ total_distributed <dbl> 9952640, 9952640, 9952640, 9952640...
## $ people_vaccinated <dbl> 3091761, 3091761, 3091761, 3091761...
## $ people_fully_vaccinated_per_hundred <dbl> 51.45, 51.45, 51.45, 51.45, 51.45,...
## $ total_vaccinations_per_hundred <dbl> 130.09, 130.09, 130.09, 130.09, 13...
## $ people_fully_vaccinated <dbl> 2522541, 2522541, 2522541, 2522541...
## $ people_vaccinated_per_hundred <dbl> 63.06, 63.06, 63.06, 63.06, 63.06,...
## $ distributed_per_hundred <dbl> 202.98, 202.98, 202.98, 202.98, 20...
## $ daily_vaccinations_raw <dbl> 2942, 2942, 2942, 2942, 2942, 2942...
## $ daily_vaccinations <dbl> 2806, 2806, 2806, 2806, 2806, 2806...
## $ daily_vaccinations_per_million <dbl> 572, 572, 572, 572, 572, 572, ...
## $ share_doses_used <dbl> 0.641, 0.641, 0.641, 0.641, 0.641,...
## $ total_boosters <dbl> 913152, 913152, 913152, 913152, 91...
## $ total_boosters_per_hundred <dbl> 18.62, 18.62, 18.62, 18.62, 18.62,...
```

TEACHING OTHERS: CODING IN R

PLOT THE DATA

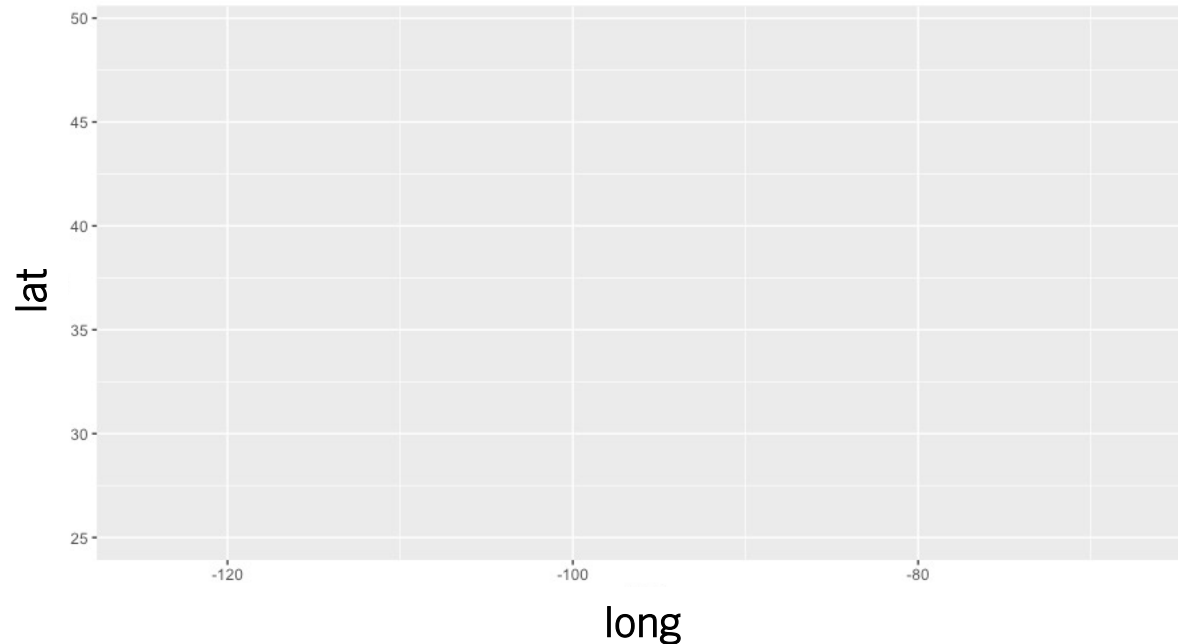
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TEACHING OTHERS: CODING IN R

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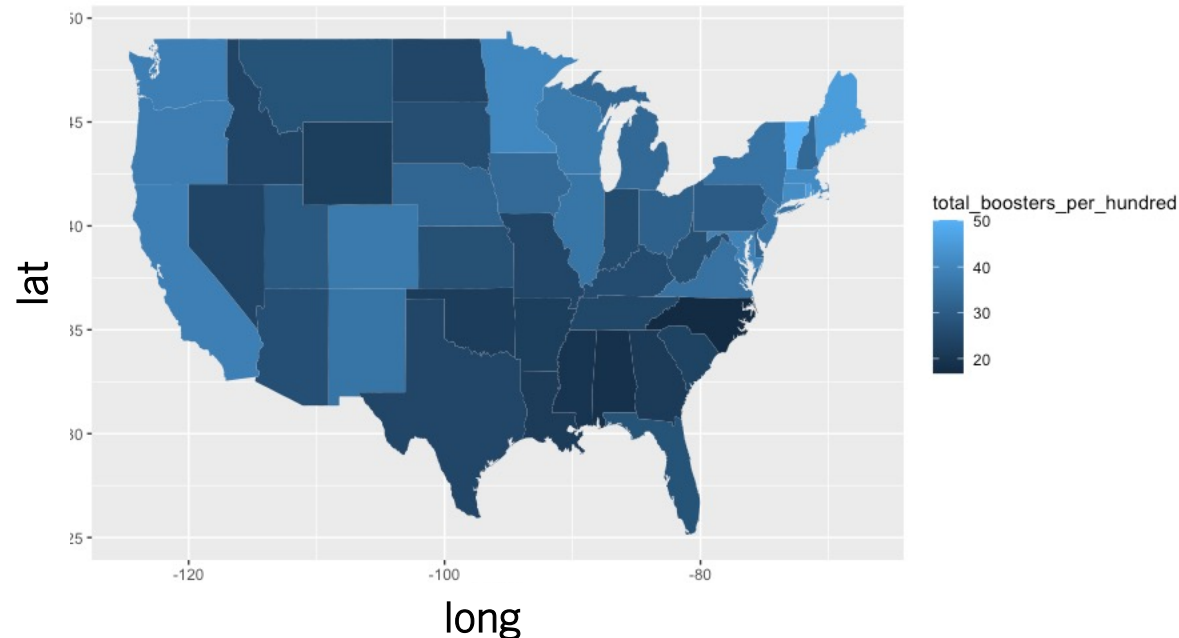
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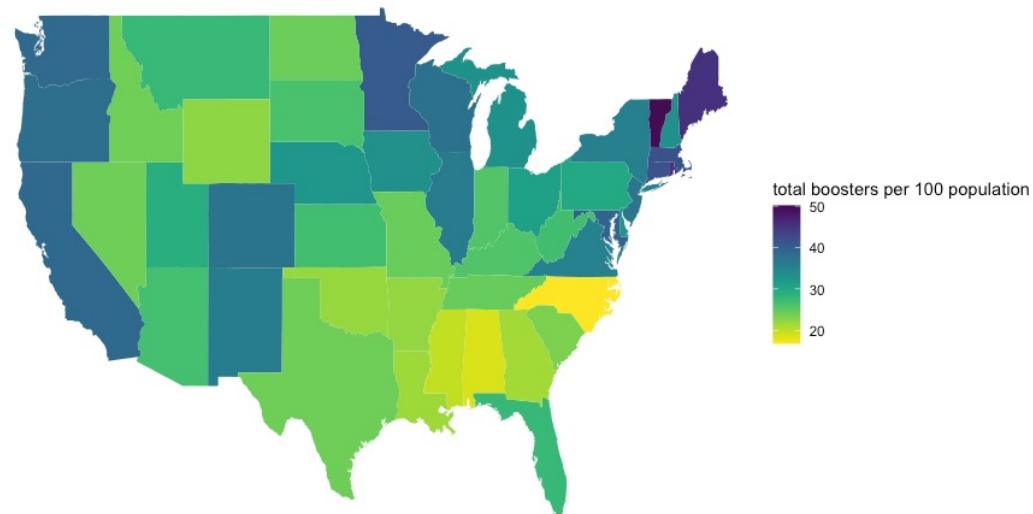
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STAYING HUMBLE: ERRORS HAPPEN!

```
> library(choroplethr)
Error: package or namespace load failed for 'choroplethr' in loadNamespace(i, c(lib.loc,
libPaths()), versionCheck = vI[[i]]):
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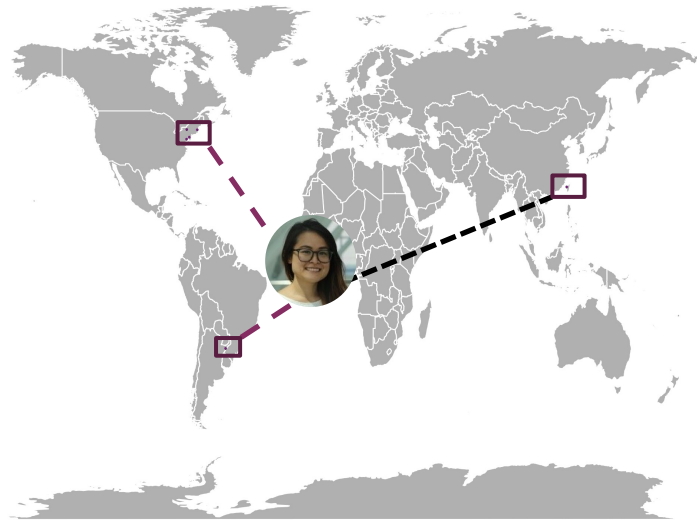
We don't make **mistakes**.
We just have
happy accidents.

- Bob Ross

THANK YOU!

 @leanmeanmishine

 www.linkedin.com/in/michelle-chiu-leanmeanmishine/



 R-Ladies