

```
import excel "F:\Users\admin\Desktop\CUHK (DPS)\CUHK tourist data\Courseware
grant\hk_visitors_sampledata.xlsx", sheet("data") firstrow clear
```

```
tsset time
```

```
tsline total_va, name(graph1, replace) title("{bf: Total visitor arrivals in HK, Jan 2016-Dec 2020}")
ytile("") ttitle("")
```

```
* Descriptive statistics
```

```
gen period = "1. Normal_times" if inrange(time, td(1jan2016), td(31may2019))
```

```
replace period = "2. Ebill_times" if inrange(time, td(1jun2019), td(31jan2020))
```

```
replace period = "3. COVID-19 times" if inrange(time, td(1feb2020), td(31dec2020))
```

```
sum total_va if period=="1. Normal_times", d
```

```
sum total_va if period=="2. Ebill_times", d
```

```
sum total_va if period=="3. COVID-19 times", d
```

```
graph box total_va, over(period) noout ytile("") name(graph2, replace)
```

```
* Confidence interval
```

```
gen Mainland_proportion = total_va_mainland_china/total_va
```

```
ci means Mainland_proportion if period=="1. Normal_times"
```

```
ci means Mainland_proportion if period=="2. Ebill_times"
```

```
ci means Mainland_proportion if period=="3. COVID-19 times"
```

```
twoway (scatter Mainland_proportion time) (lfitci Mainland_proportion time if period=="1.
Normal_times", ciplot(rline)), ytile("") name(graph3, replace)
```

```
twoway (scatter Mainland_proportion time) (lfitci Mainland_proportion time if period=="2.
Ebill_times", ciplot(rline)), ytile("") name(graph4, replace)
```

```
twoway (scatter Mainland_proportion time) (lfitci Mainland_proportion time if period=="3.
COVID-19 times", ciplot(rline)), ytile("") name(graph5, replace)
```