

# Reduction in remaining life expectancy due to COVID-19 deaths

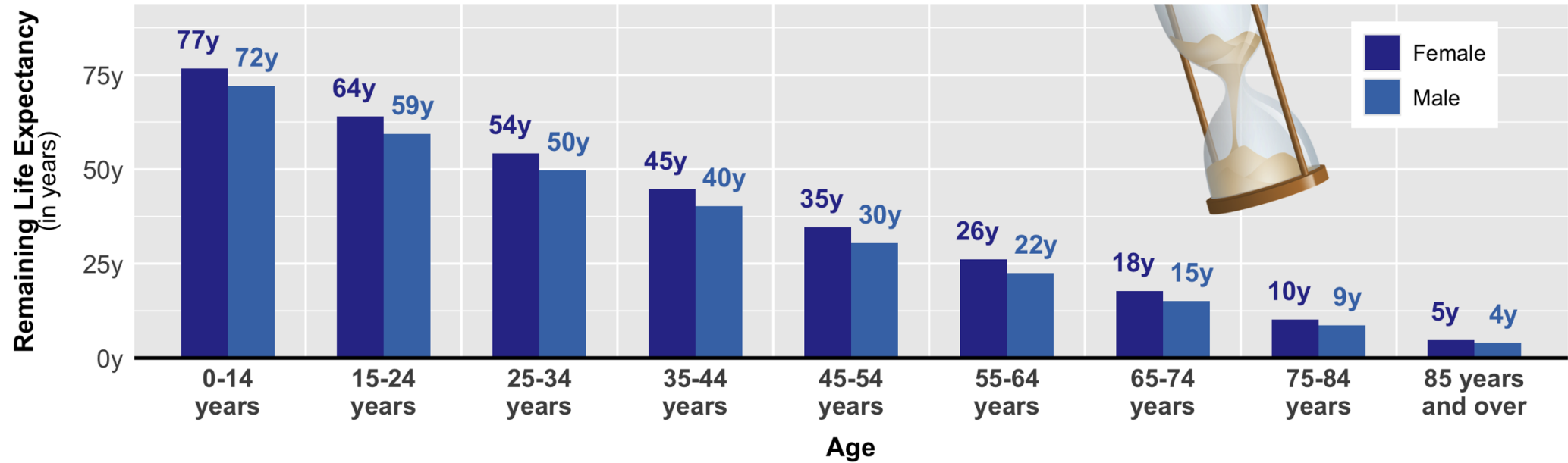
Version Nr. 8

**Telling Stories with R and Data Visualizations | Project Presentation**

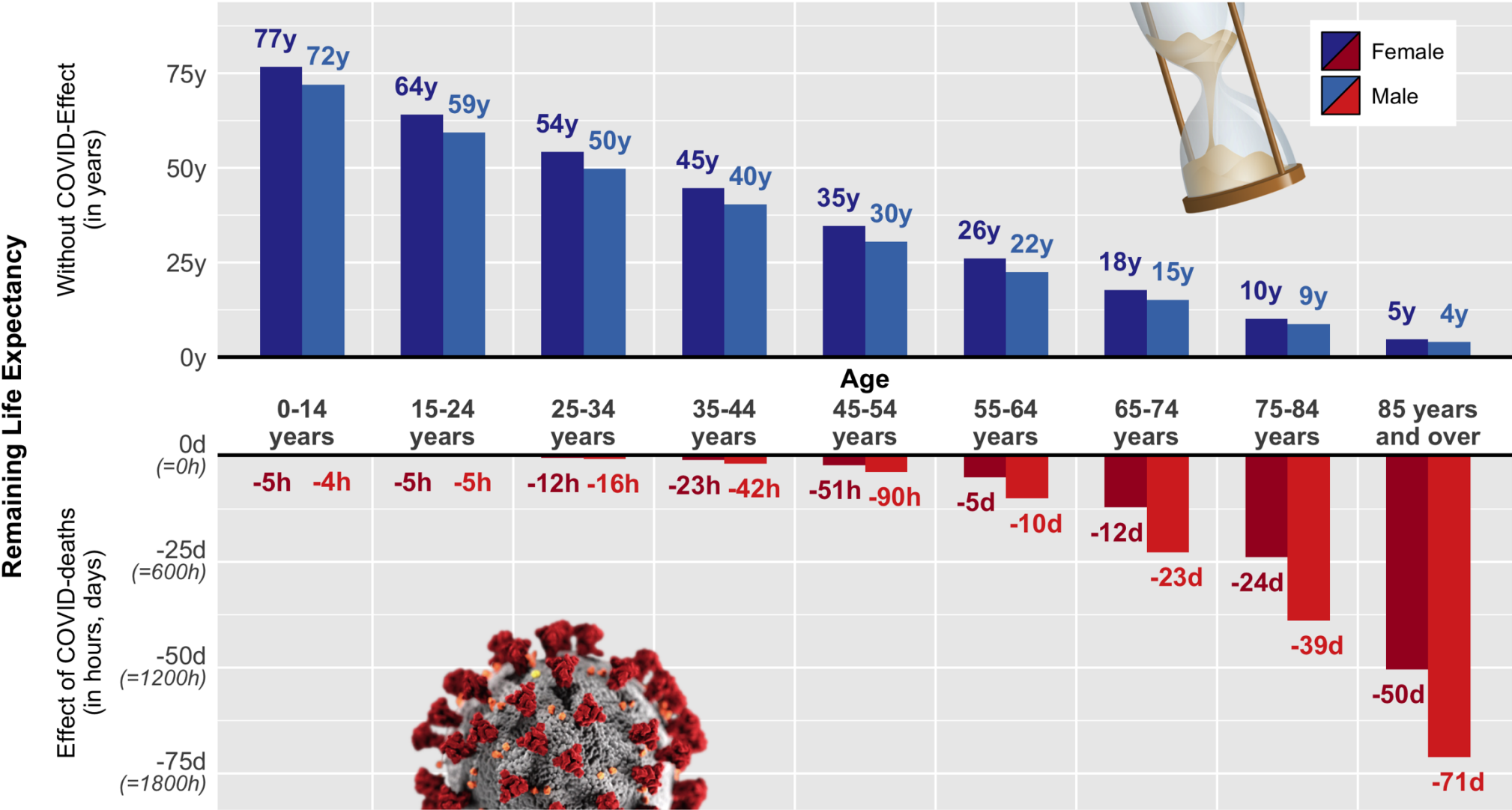
**Supervisor:** Dr. Jan Zilinsky

**Students:** Benjamin Willnecker, Thy Duong

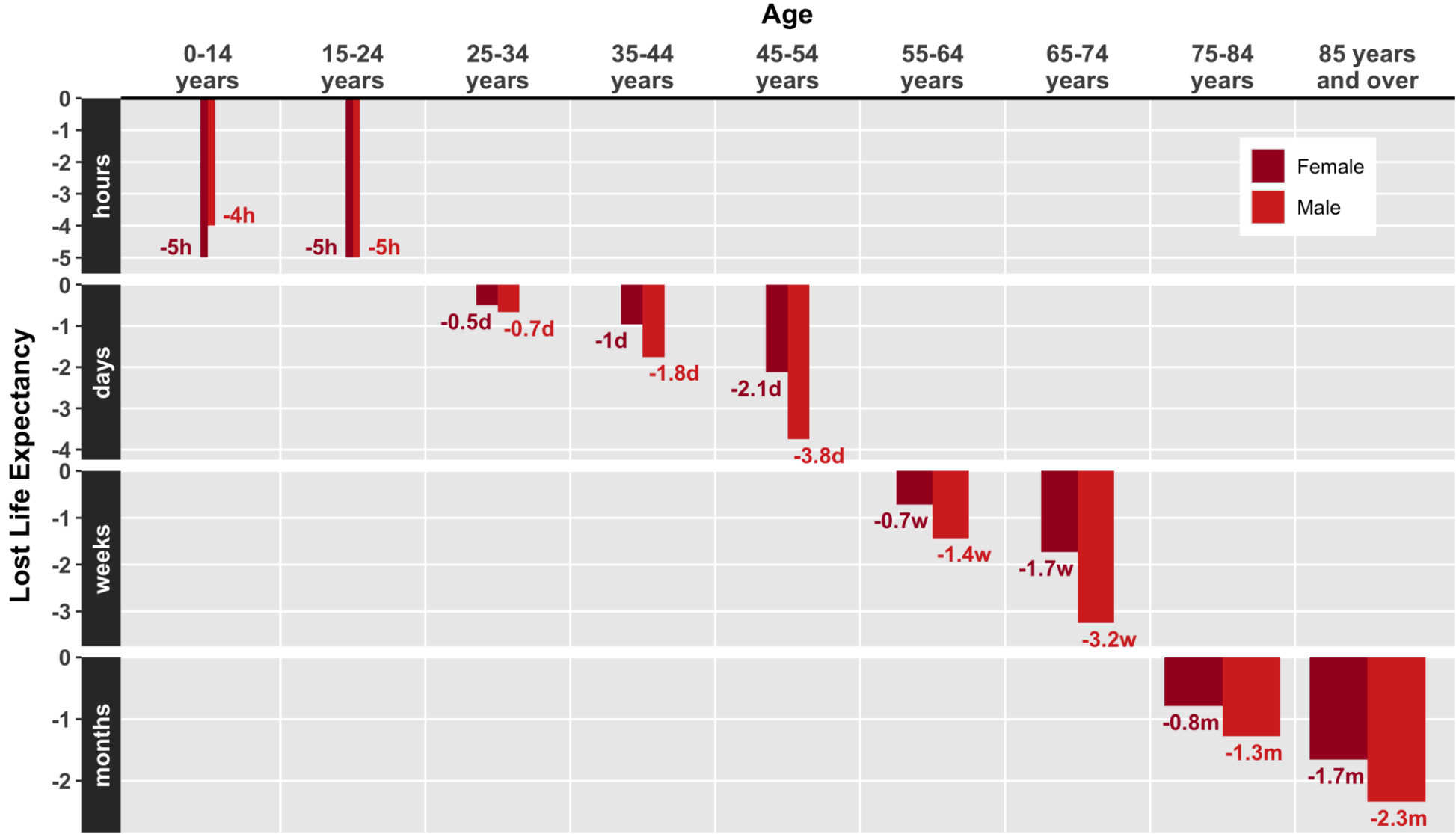
## Remaining Life Expectancy of Age Groups



Average remaining life expectancy and the effect of COVID-19 deaths on it



# Loss of Life Expectancy due to COVID-19 Deaths by Age Group



**Research Question:** How have COVID-19 deaths affected age-specific remaining life expectancy?

## New Perspective:



Case



Time

### More time lost?



Younger → Higher remaining life expectancy → Greater time lost due to COVID-19 deaths despite fewer cases?

### Less time lost?



Older → Lower remaining life expectancy → Lower time lost due to COVID-19 deaths despite more cases?

**Three data sets from Destatis were used** to calculate the average loss of life expectancy by age group.



Life expectancy

Gender

Age Year

Covid deaths

Gender

Age Group

# Population

Gender

Age Year

**Average loss of life  
expectancy by age group**

**(life expectancy per age group \* number of COVID-19 deaths per age group)  
/ Population size per age group**



Version Nr. 8



<https://github.com/thybaoduongnguyen/COVID-life-time-reduction>

# Backup

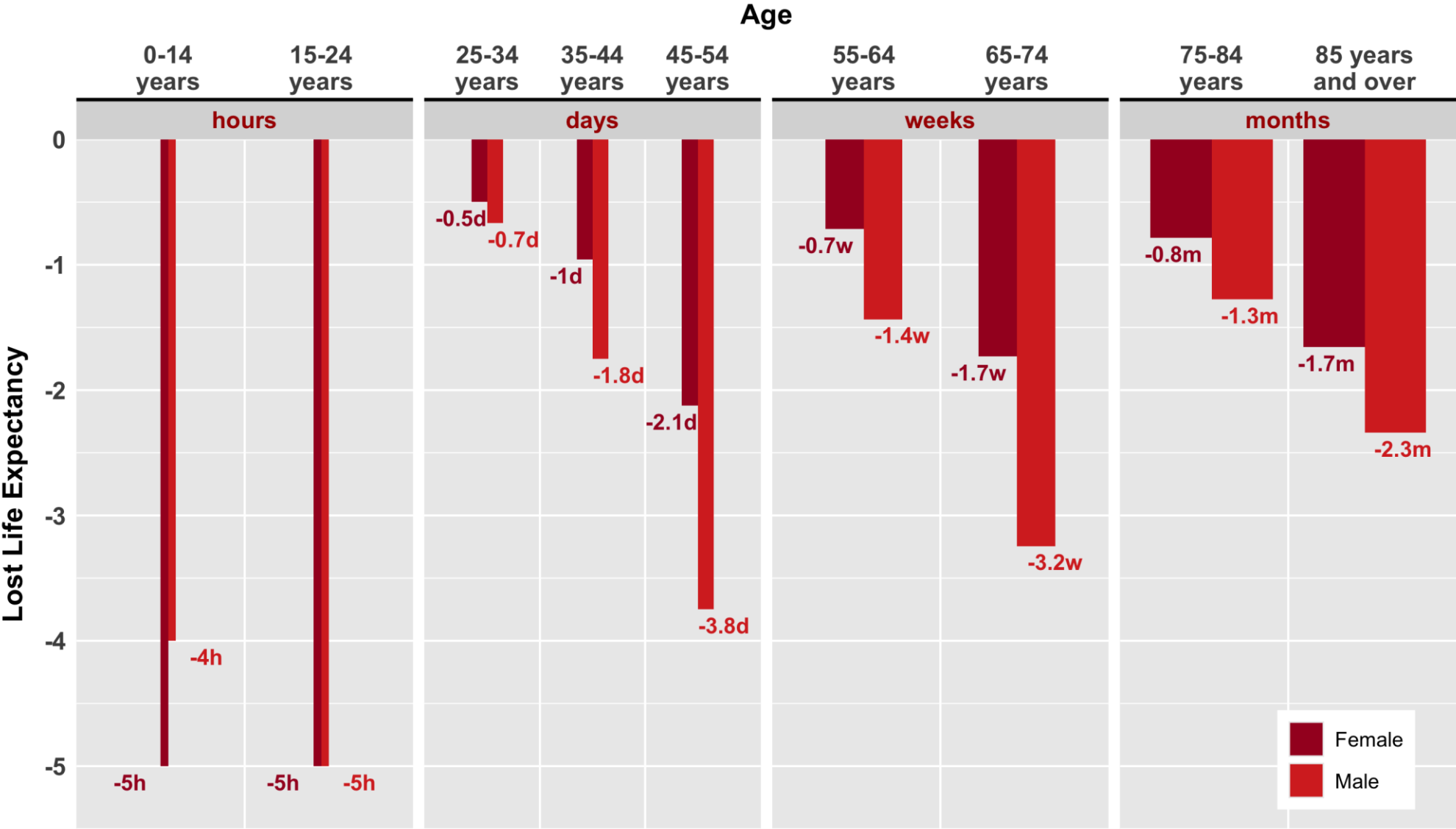
Version Nr. 8

**Telling Stories with R and Data Visualizations | Project Presentation**

**Supervisor:** Dr. Jan Zilinsky

**Students:** Benjamin Willnecker, Thy Duong

Loss of Life Expectancy due to COVID-19 Deaths by Age Group



Lost years of life expectancy due to COVID-19 deaths for each age group in total

