Homework II: SVD analysis & Life Tables

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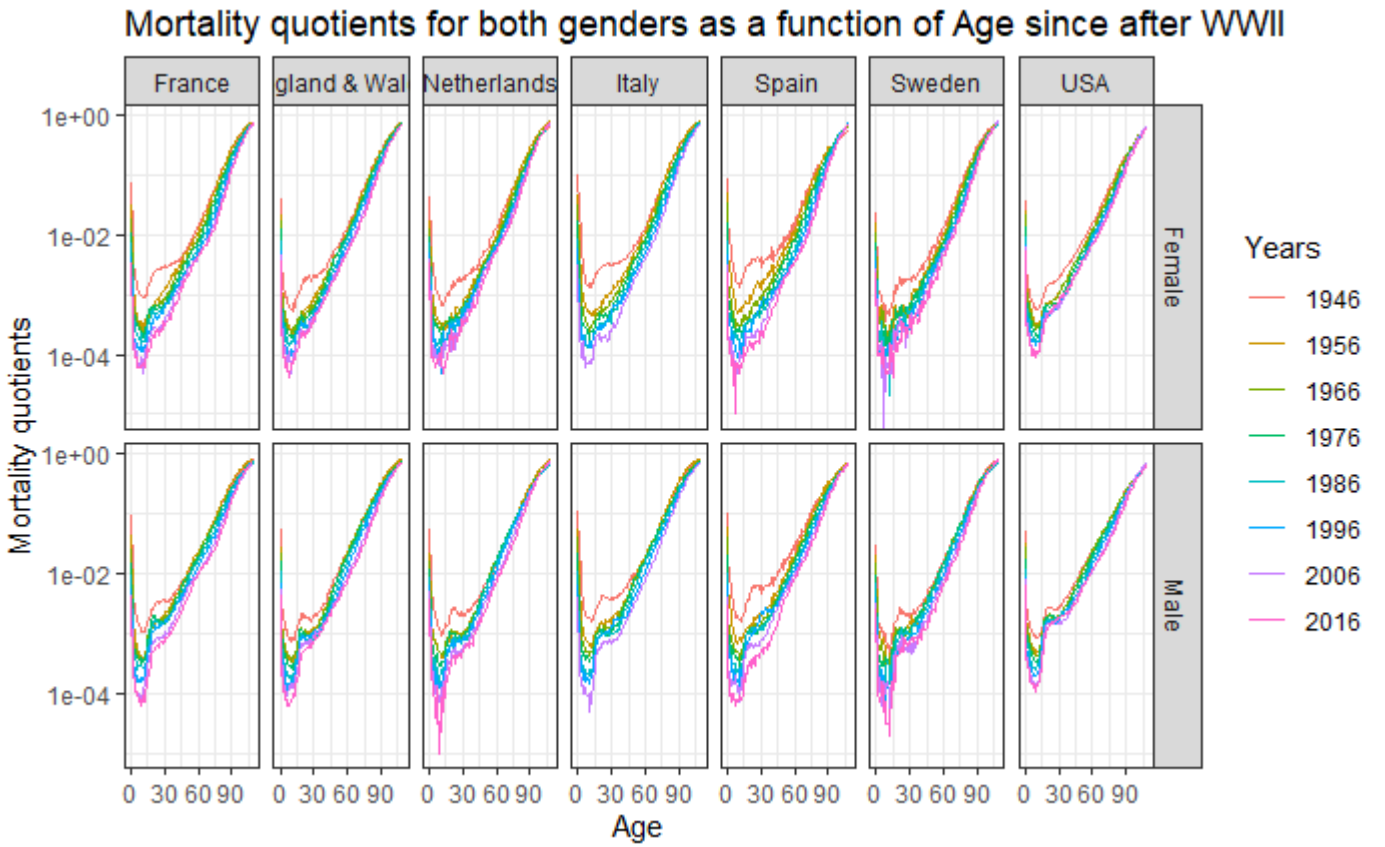
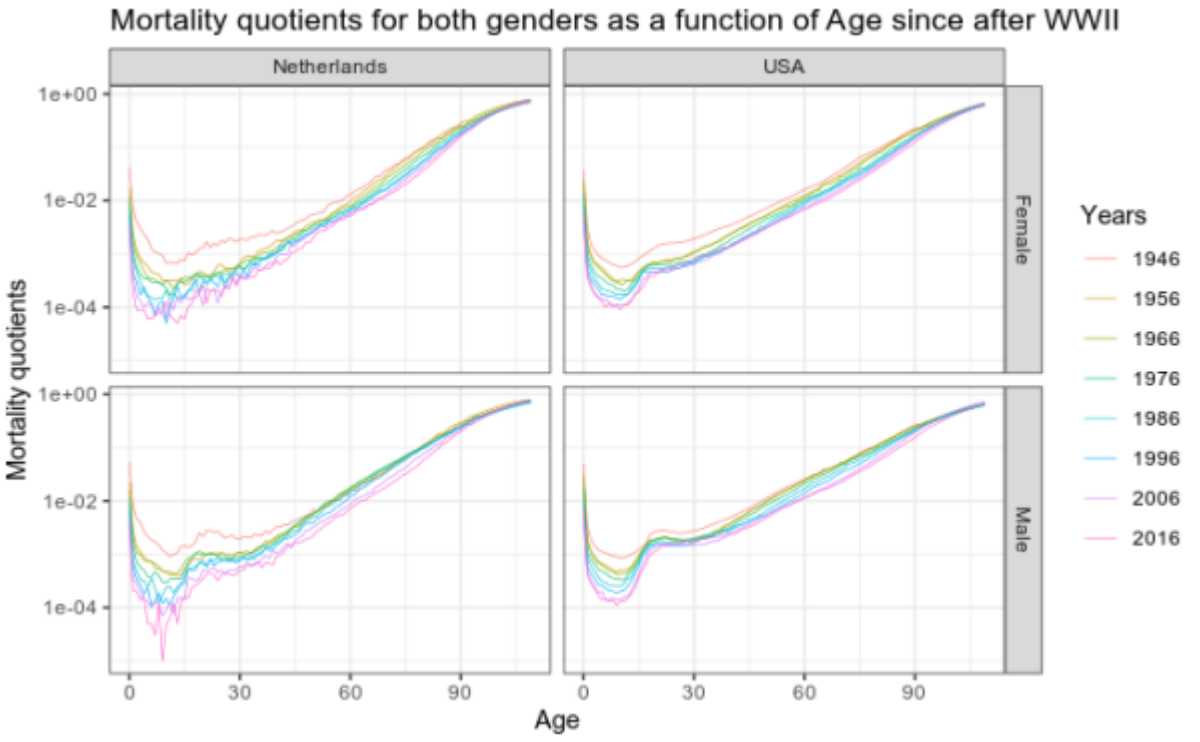
Introduction

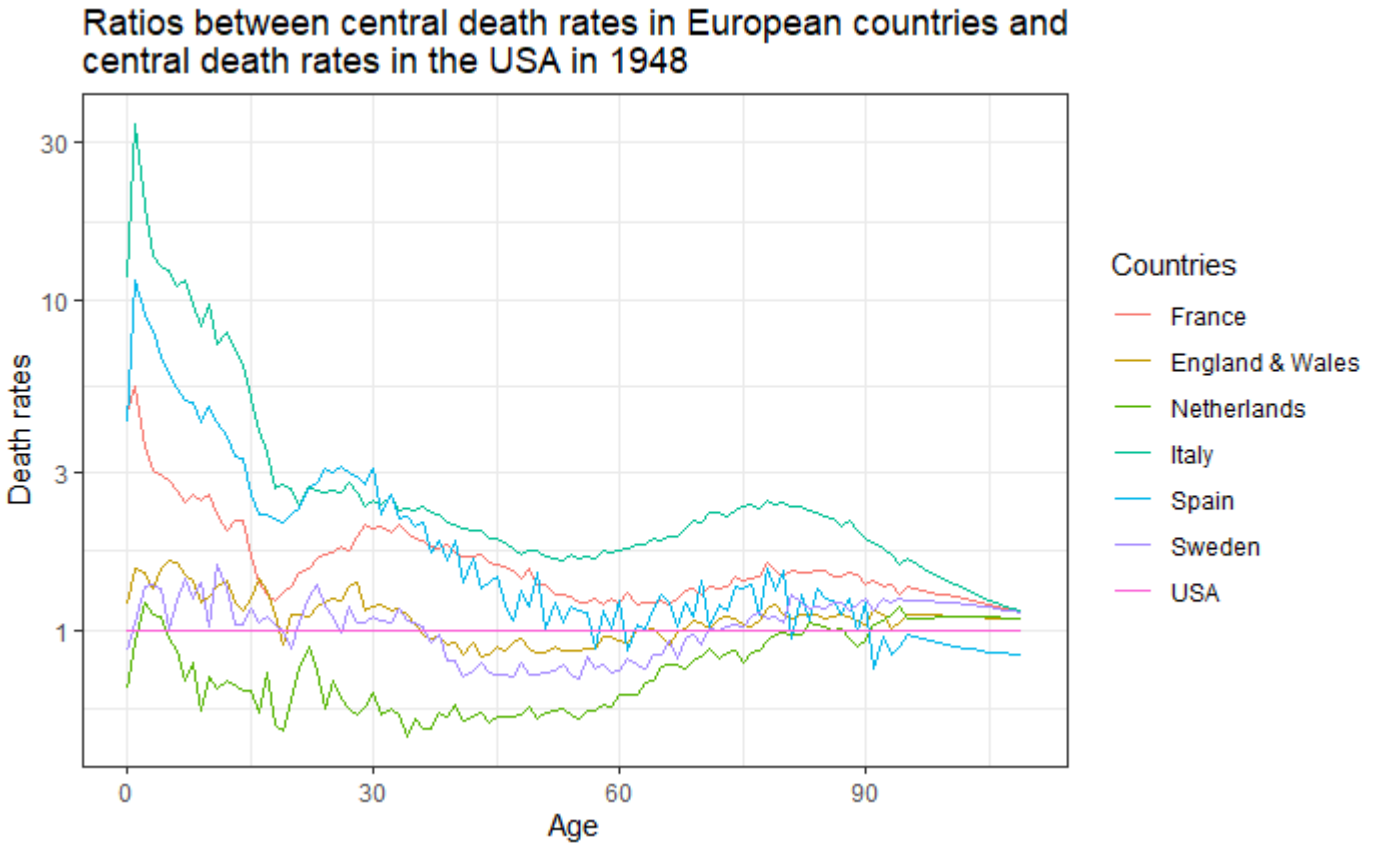
- Item 1
- Item 2
  - Item 2a
  - Item 2b

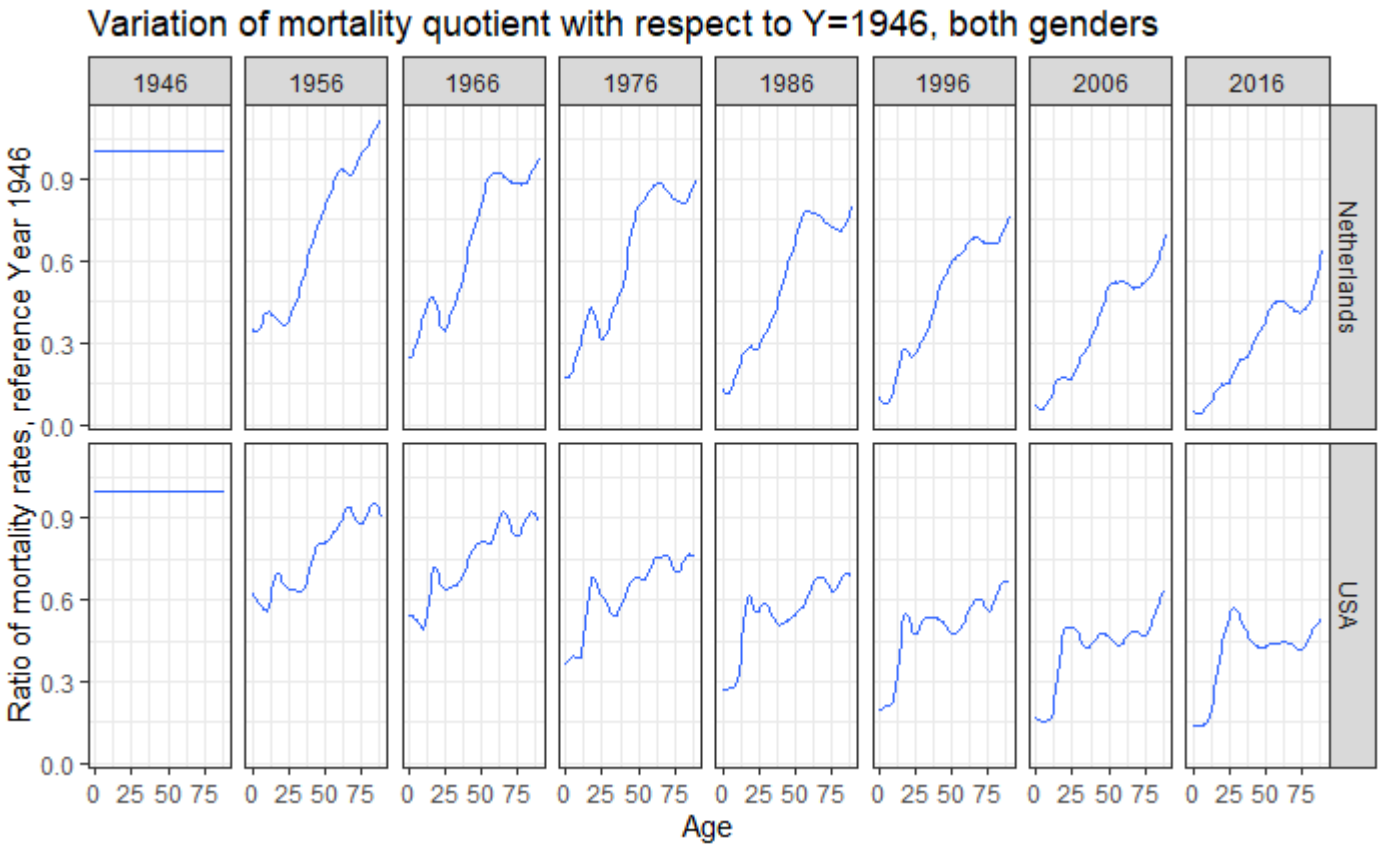
Mortality quotients for both genders as a function of Age since after WWII


Mortality quotients for both genders as a function of Age since after WWII
France
gland & Wal
Netherlands
Italy
Spain
Sweden
USA
Female
Male
Mortality quotients
1e+00
1e-02
1e-04
0 30 60 90
Age
Years
1946
1956
1966
1976
1986
1996
2006
2016

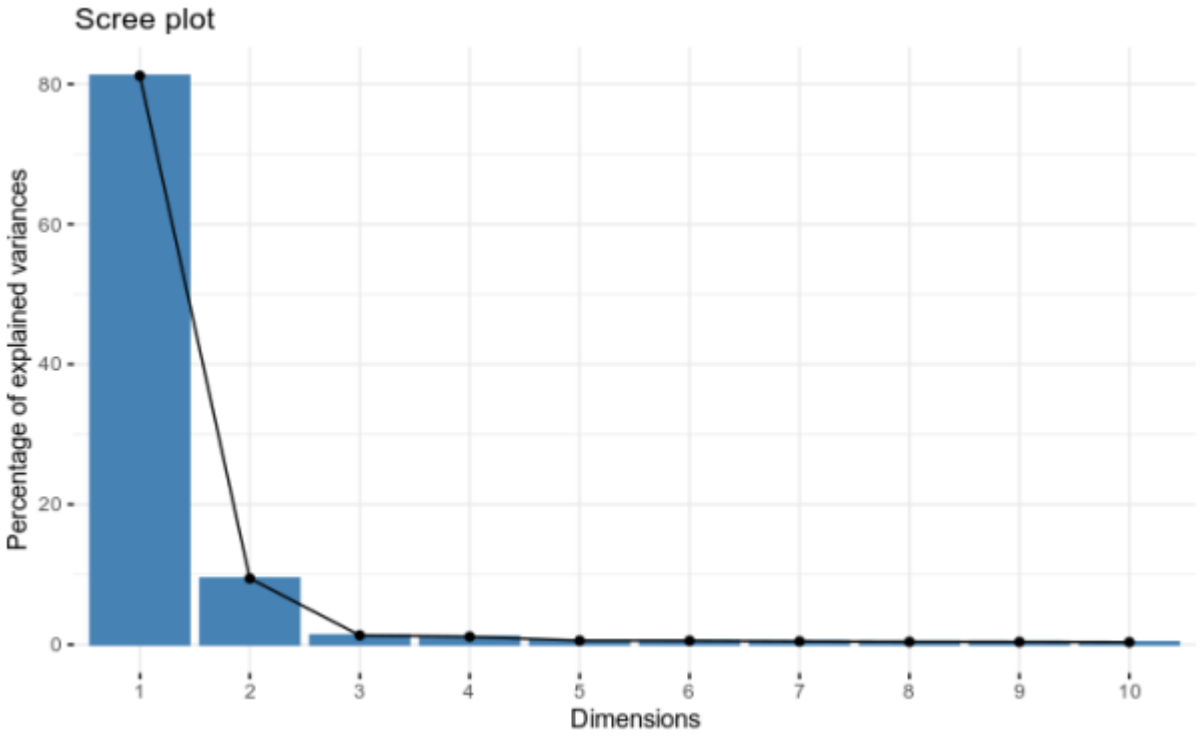

Mortality quotients for both genders as a function of Age since after WWII
Netherlands
USA
Female
Male
Mortality quotients
1e+00
1e-02
1e-04
0
30
60
90
Age
Years
1946
1956
1966
1976
1986
1996
2006
2016

Ration between central death rates in European countries and central death rates in the USA in 1948


Ratios between central death rates in European countries and central death rates in the USA in 1948
Death rates
30
10
3
1
0
30
60
90
Age
Countries
France
England & Wales
Netherlands
Italy
Spain
Sweden
USA


Variation of mortality quotient with respect to Y=1946, both genders
1946
1956
1966
1976
1986
1996
2006
2016
Netherlands
USA
Ratio of mortality rates, reference Year 1946
0.0
0.3
0.6
0.9
0 25 50 75
Age

PCA


Scree plot
Percentage of explained variances
80
60
40
20
0
1
2
3
4
5
6
7
8
9
10
Dimensions

PCA

Lee-Carter model