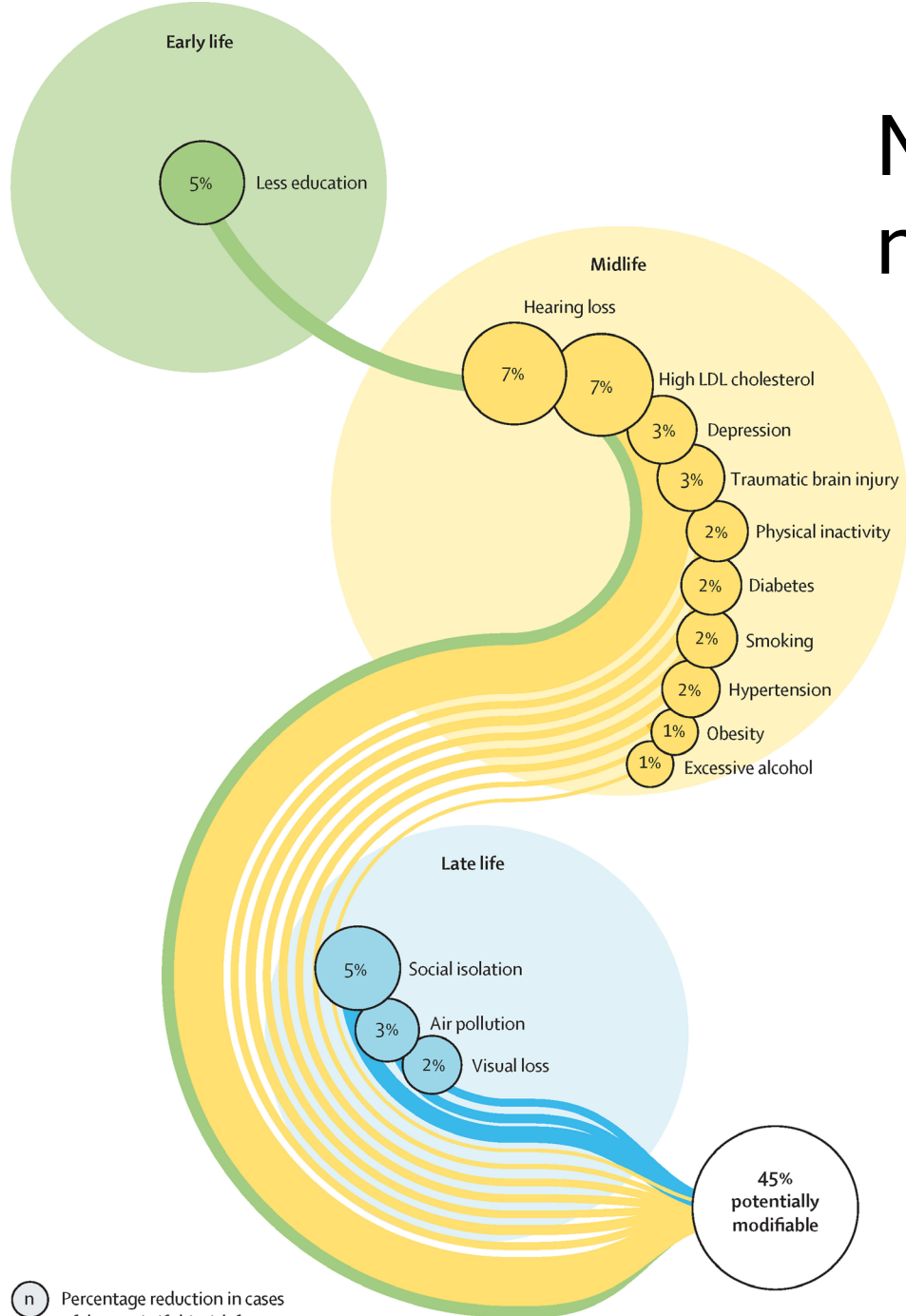


# Life Experiences Needed for Stand-Alone HCAP Studies

Jennifer Manly, PhD

HCAP Network

# More evidence on life experiences is needed cross-nationally



- Low education
- Health behaviors
  - Physical Inactivity
  - Smoking
  - Excessive Alcohol

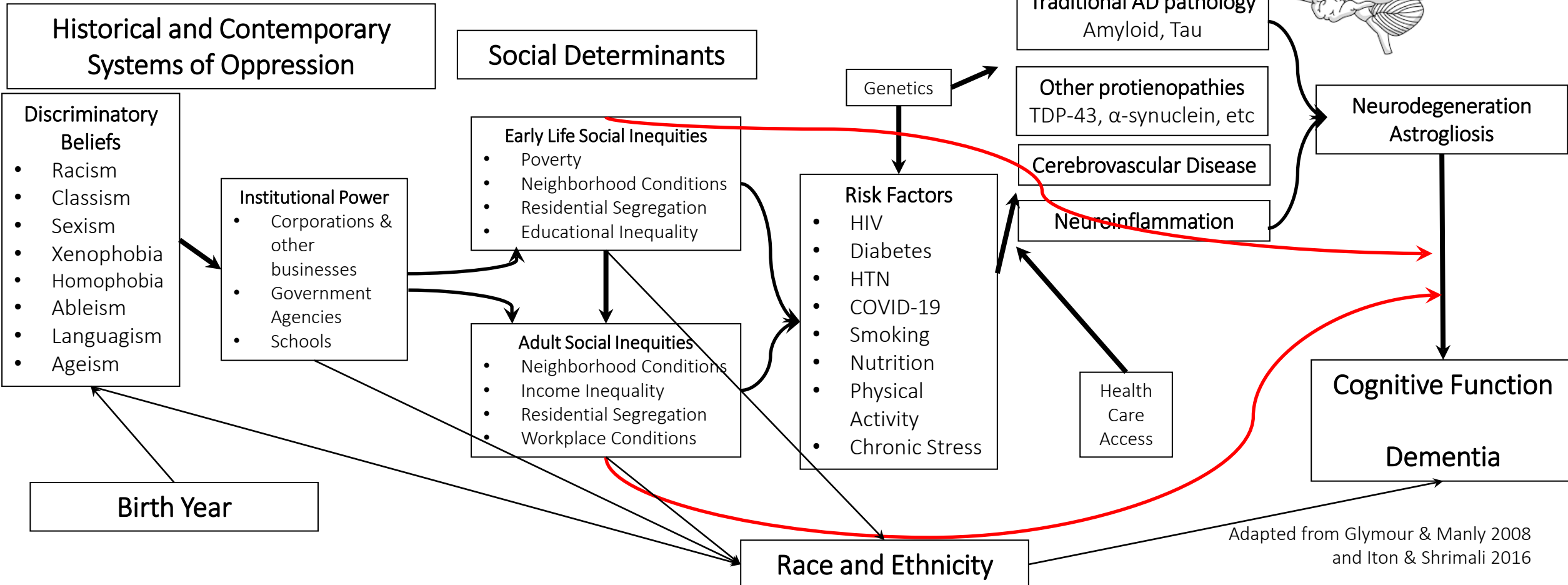
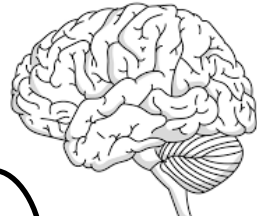
n Percentage reduction in cases of dementia if this risk factor is eliminated

Livingston et al, 2024

# Lifecourse mechanisms underlying inequalities in Alzheimer's and Related Dementias

Distal, Upstream Factors

Proximal, Downstream Factors



Adapted from Glymour & Manly 2008 and Iton & Shrimali 2016

# Needed for Diagnosis of Dementia?

## YES

### Needed to Interpret Cognitive Test Scores

R's literacy & educational attainment

- Literacy, years, credential
- Place/school/birth cohort-based variables that influence adjustment for attainment

Factors that interfered with R's expected course of schooling

- Intellectual disability
- Learning difficulties
- Reasons for leaving school early

## NO

### Experiences that are Risk Factors for Dementia

- Early life SES
- Schooling/Educational Experience
- Immigration/Migration History
- Medical and Psychiatric History
- Traumatic/Stressful Life Events
- Occupational History
- Marital History/Family formation

# Life Experiences

- Early Life/Family/Parental SES
- Residential History
  - Immigration/Migration History
  - Incarceration
  - Homelessness
- ***Schooling/Education***
  - National/regional structure and curricular content by year of birth
  - Respondent school experience and attainment
- Traumatic/Stressful Life Events
  - Including Discrimination/Civil Rights violations
- Occupational History
- Medical and Psychiatric History
  - Health conditions
  - Access to Medical Care
  - Health Behaviors
    - Physical Activity
    - Sleep
    - Diet
    - Smoking, Alcohol, Drug Use

# Country/Regional Educational System

International Standard Classification of Education

# ISCED 2011

- 
- International standard = International Standard Classification of Education (ISCED)
  - Native born
  - Migrant communities
  - Policy changes like increase in compulsory levels/age at leaving
  - Historical educational data needed



# United States of America



## Early Childhood – Post-Secondary Education

Student's age

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22



3  
GED or H.S.  
equivalency  
programme

4  
Certificate  
programme



## Tertiary Education

Programme duration (in years)

0 1 2 3 4 5 6 7 8



### Compulsory full-time education/training

Early childhood education and care, for which the Ministry of Education:

is not responsible  
is responsible

Primary Education

Additional Year

Secondary general education

Secondary vocational education

Post-secondary non-tertiary education

Tertiary education (full-time)

Short-cycle tertiary education

ISCED

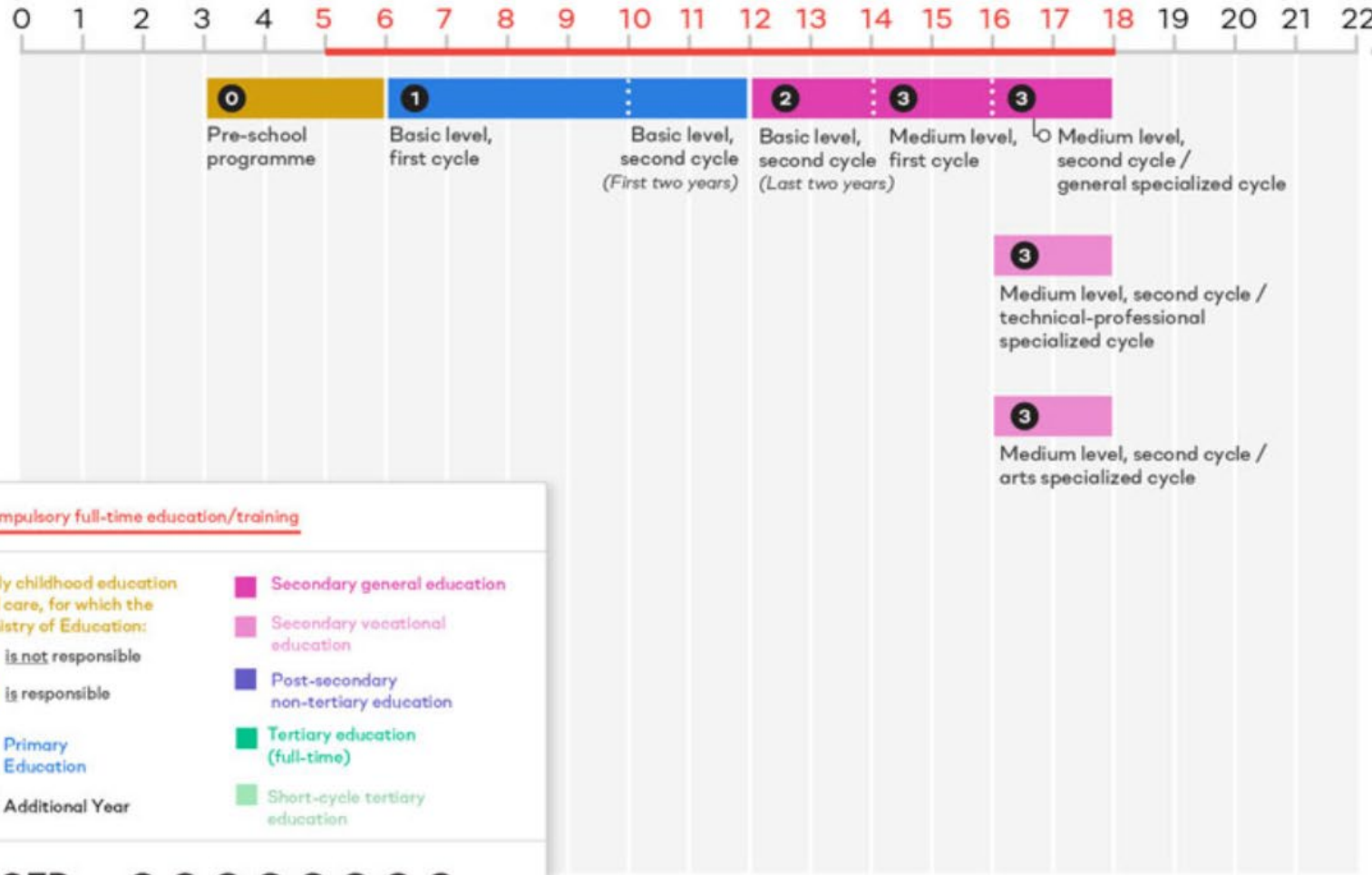
0 1 2 3 4 5 6 7

# Dominican Republic



## Early Childhood – Post-Secondary Education

Student's age



Compulsory full-time education/training

Early childhood education and care, for which the Ministry of Education:

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is responsible

Primary Education

Additional Year

Secondary general education

Secondary vocational education

Post-secondary non-tertiary education

Tertiary education (full-time)

Short-cycle tertiary education

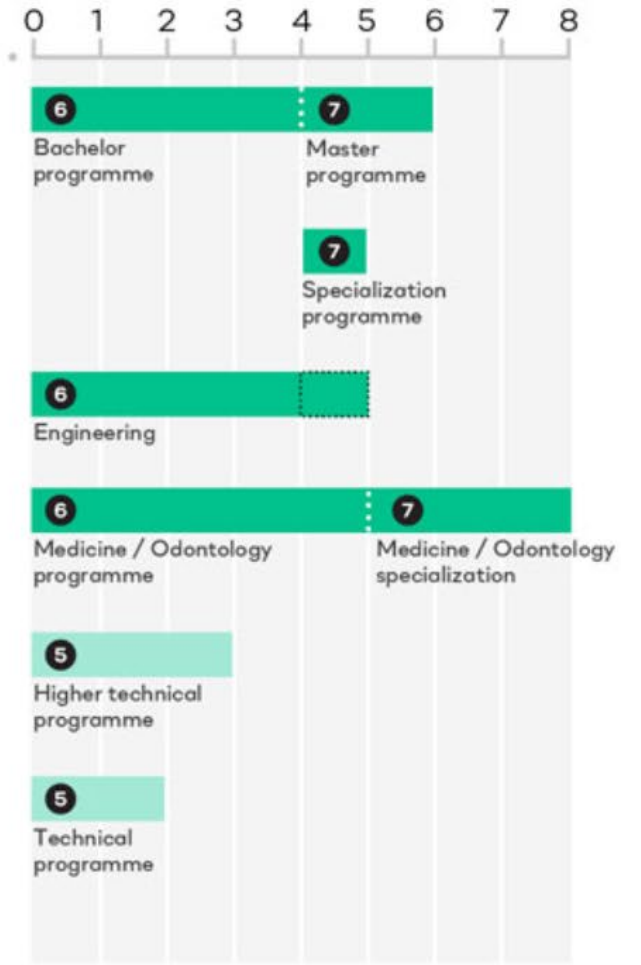
ISCED

0 1 2 3 4 5 6 7



## Tertiary Education

Programme duration (in years)



Country approval pending

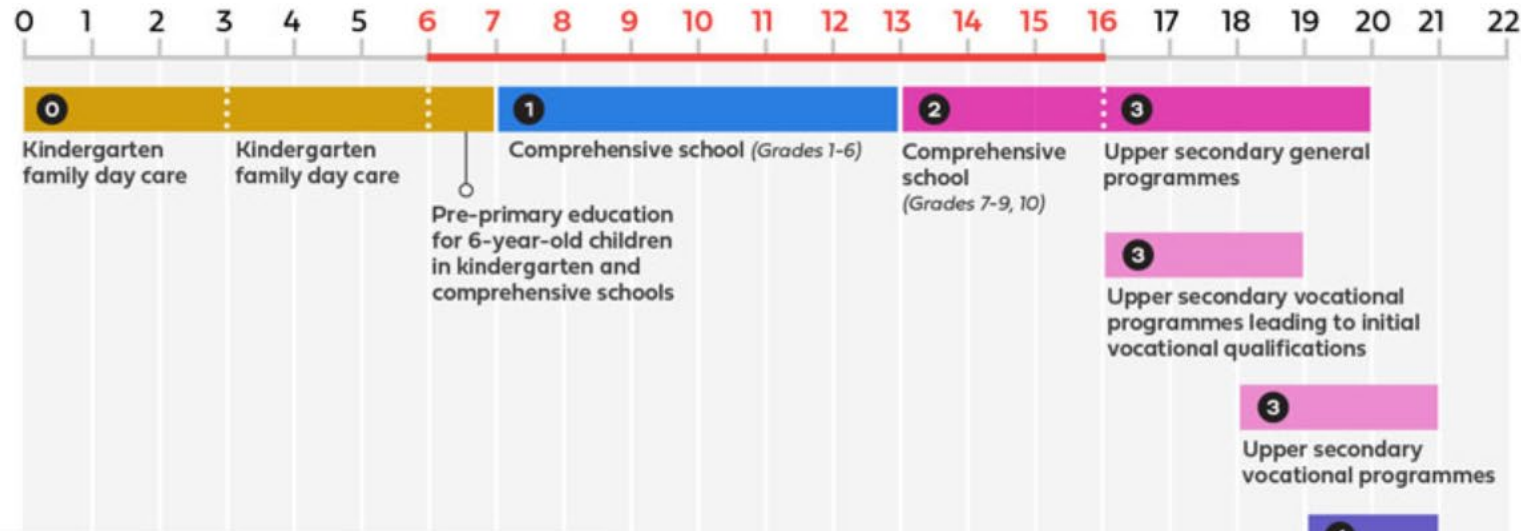


# Finland



## Early Childhood – Post-Secondary Education

Student's age



### Compulsory full-time education/training

Early childhood education and care, for which the Ministry of Education:

is not responsible

is responsible

Primary Education

Additional Year

Secondary general education

Secondary vocational education

Post-secondary non-tertiary education

Tertiary education (full-time)

Short-cycle tertiary education

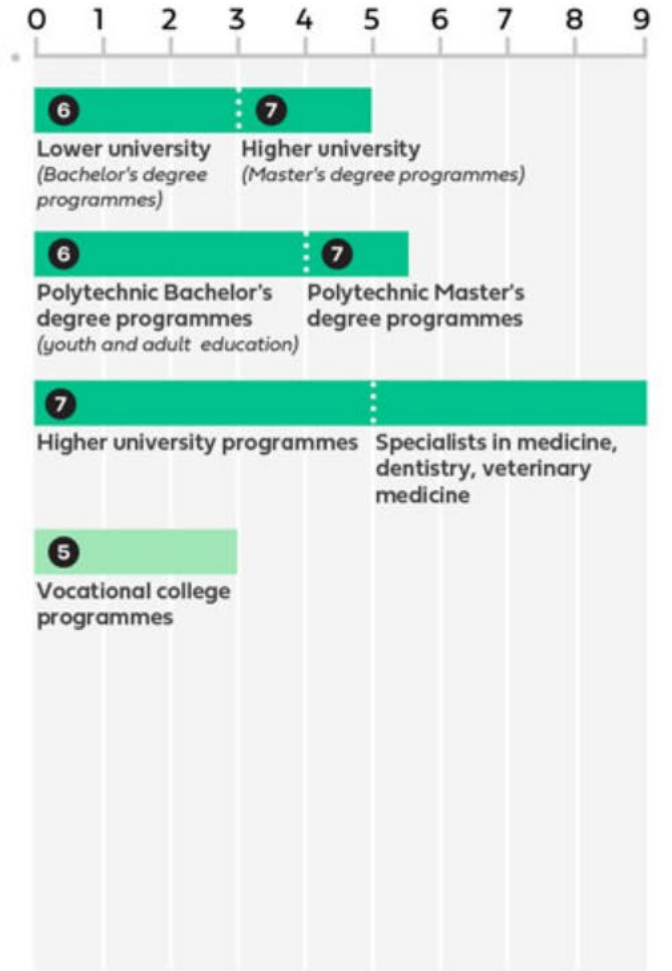
ISCED

0 1 2 3 4 5 6 7



## Tertiary Education

Programme duration (in years)



# Measuring R's Educational Experience

- Literacy
  - “Did you ever learn to read or write?”
- Age entering school
- Years of completed school
- Credential attained
  - Age that credential was attained
- Location and/or names of schools attended
- Reason for leaving before compulsory age/credential
- Academic or behavioral problems
- Learning difficulties

# Lifecourse SES

- Parental Educational attainment
- Parental Literacy
- Parental Occupation
- Number of siblings/number in household
- Lifetime food & housing insecurity
- Occupational history
  - Title & Tasks
  - Primary lifetime occupation, highest status occupation
- Wealth / Consumption
  - Income
  - Assets
  - Debts
- Subjective SES



# Stressful/Adverse Life Events or Trauma

*Yes/no, number of times, age of exposure*

- Trauma
  - Loss of a parent during childhood
  - Injury
  - Interpersonal violence
  - Witnessing death or violence
  - Unwanted physical or sexual experiences
- Crime-related events (e.g., robbery, mugging)
- Disaster
- Minoritized status
- Discrimination/Unfair Treatment
  - Daily experiences
  - Civil Rights violations

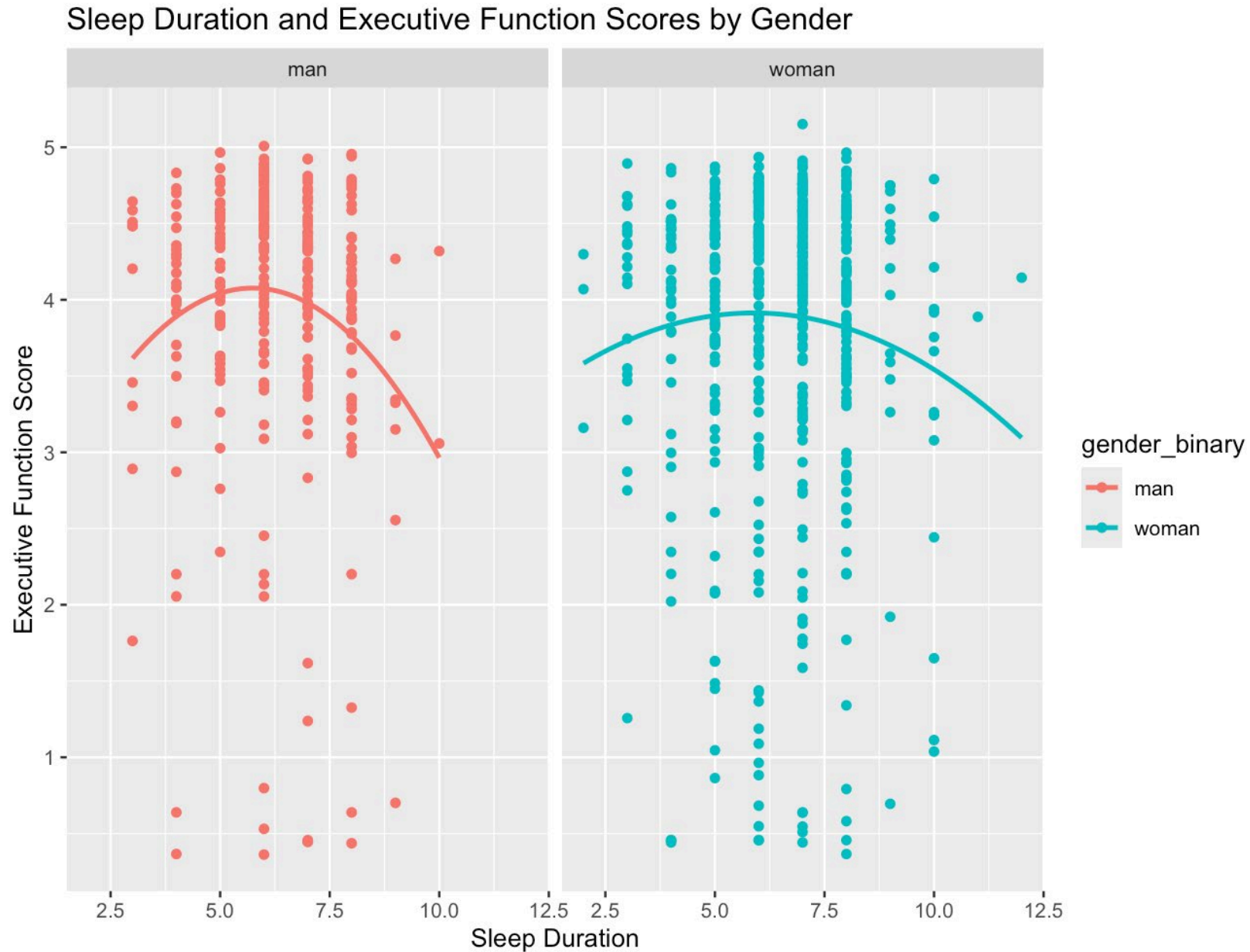
# Sleep duration and executive function



Kyra Bonta



Emily Hokett



Thank you

