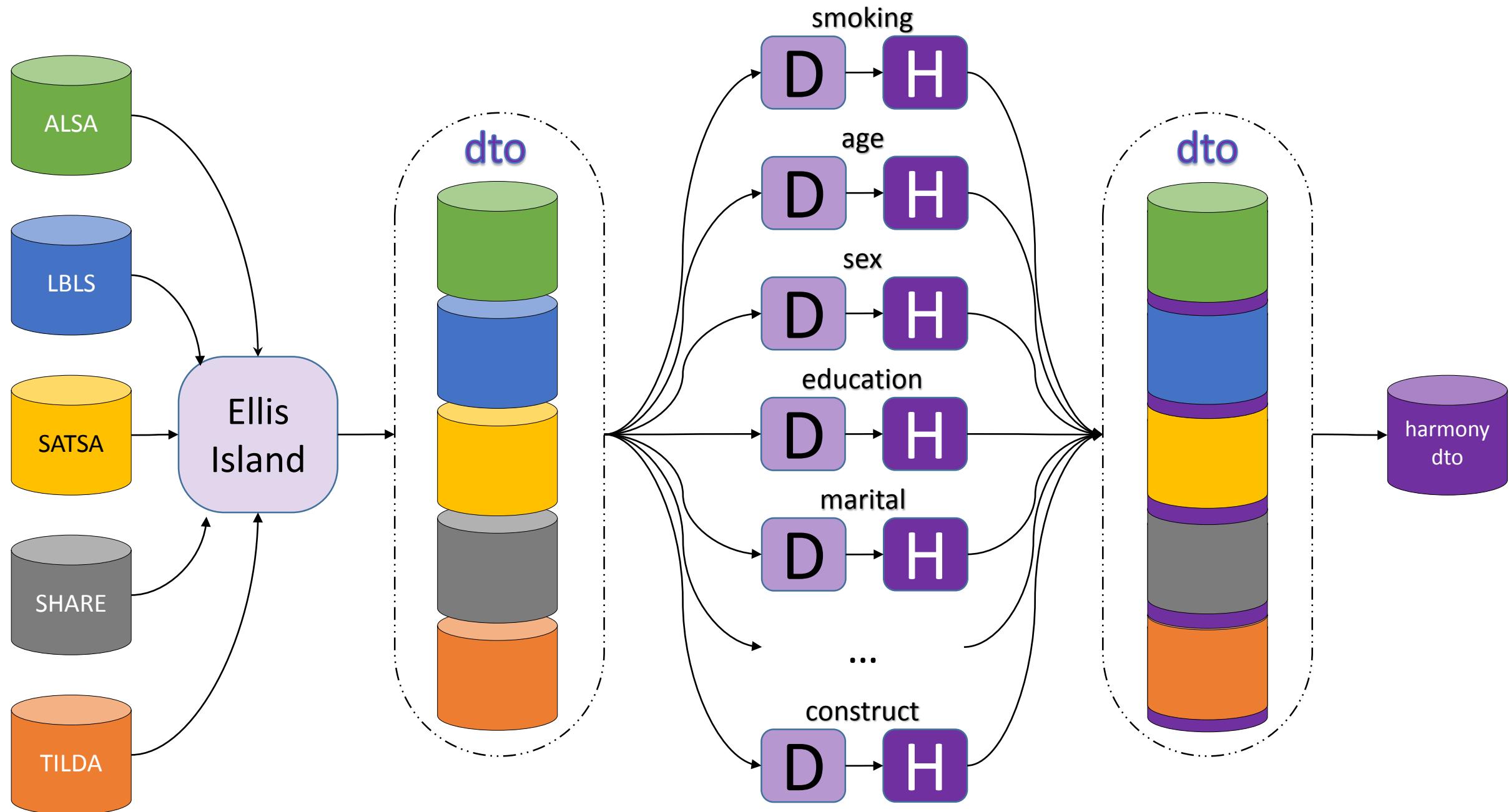


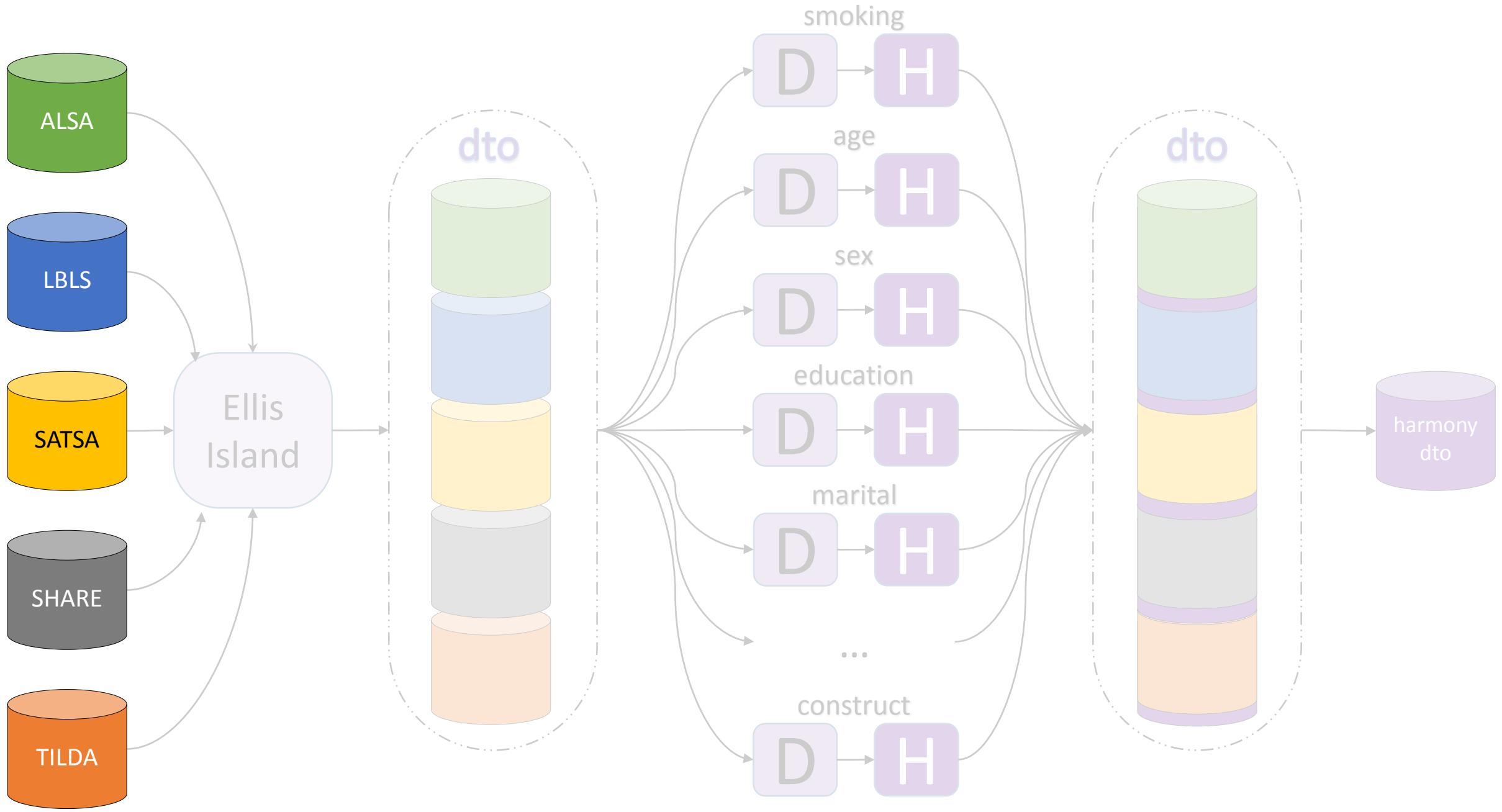
5 voices, 10 stories: Groningen Harmonization Exercise

IALSA
Andrey Koval
2016-04-21
Groningen, NL

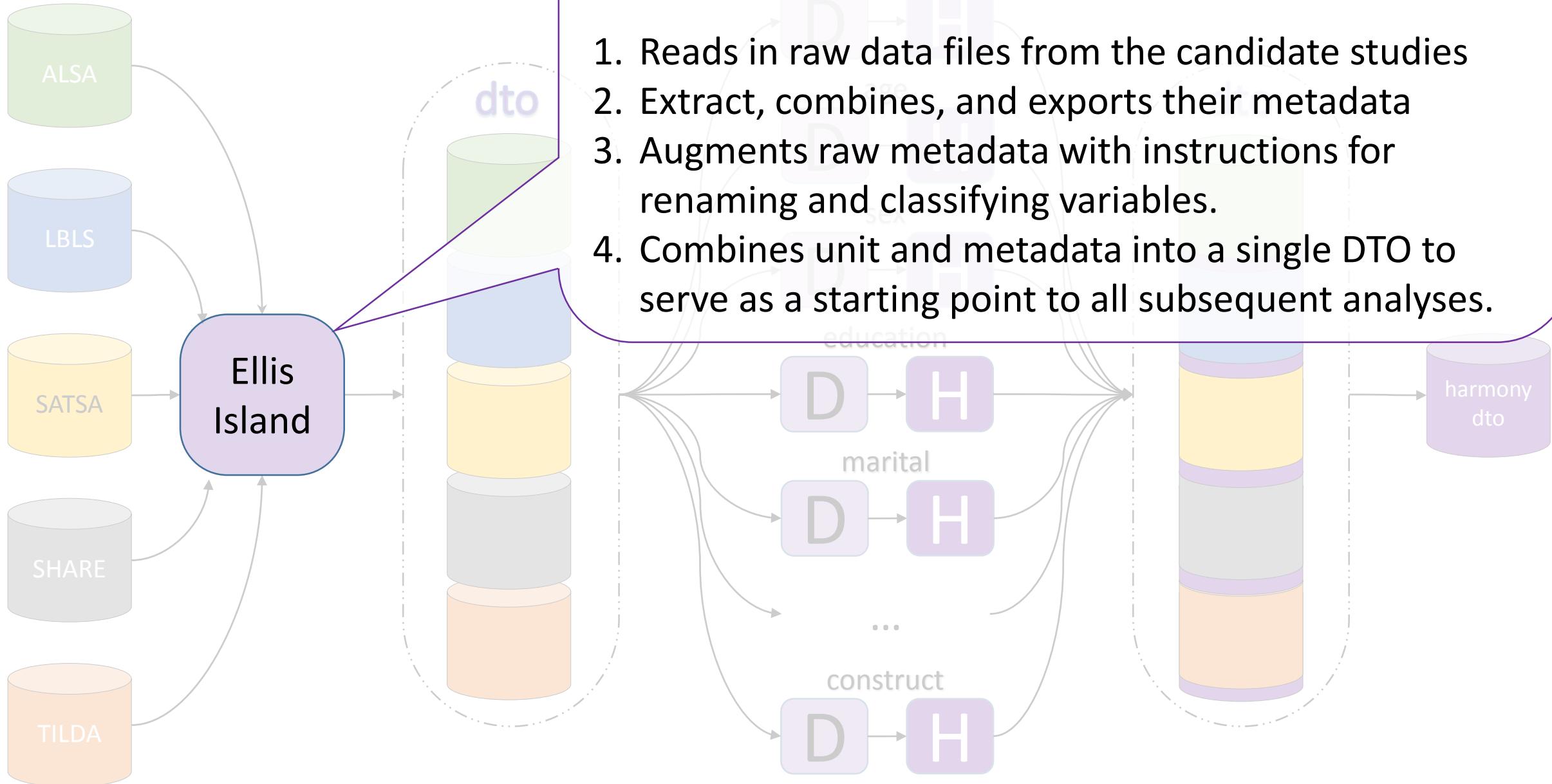
describe || harmonize



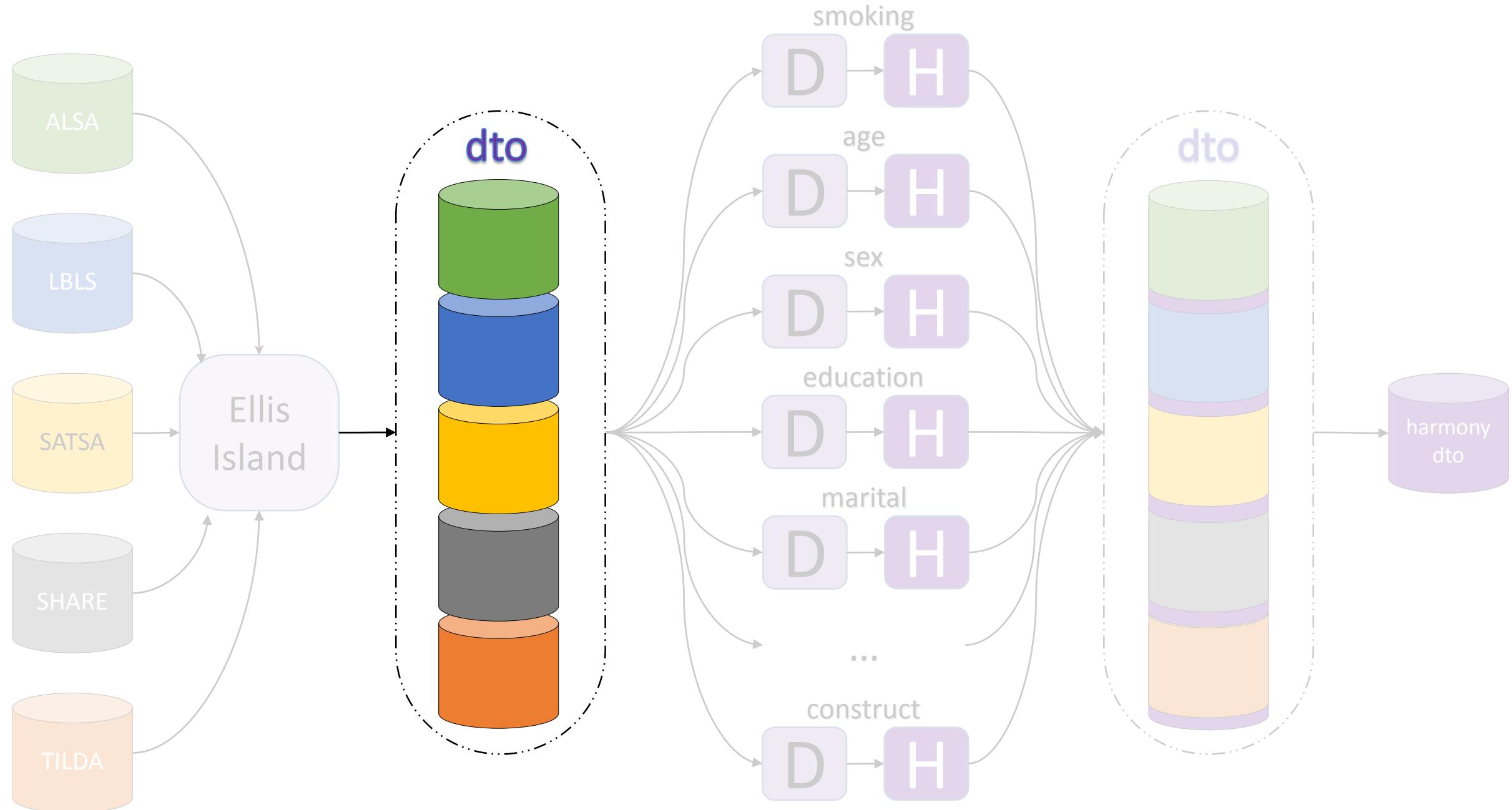
describe || harmonize



[./manipulation/0-ellis-island.R](#)

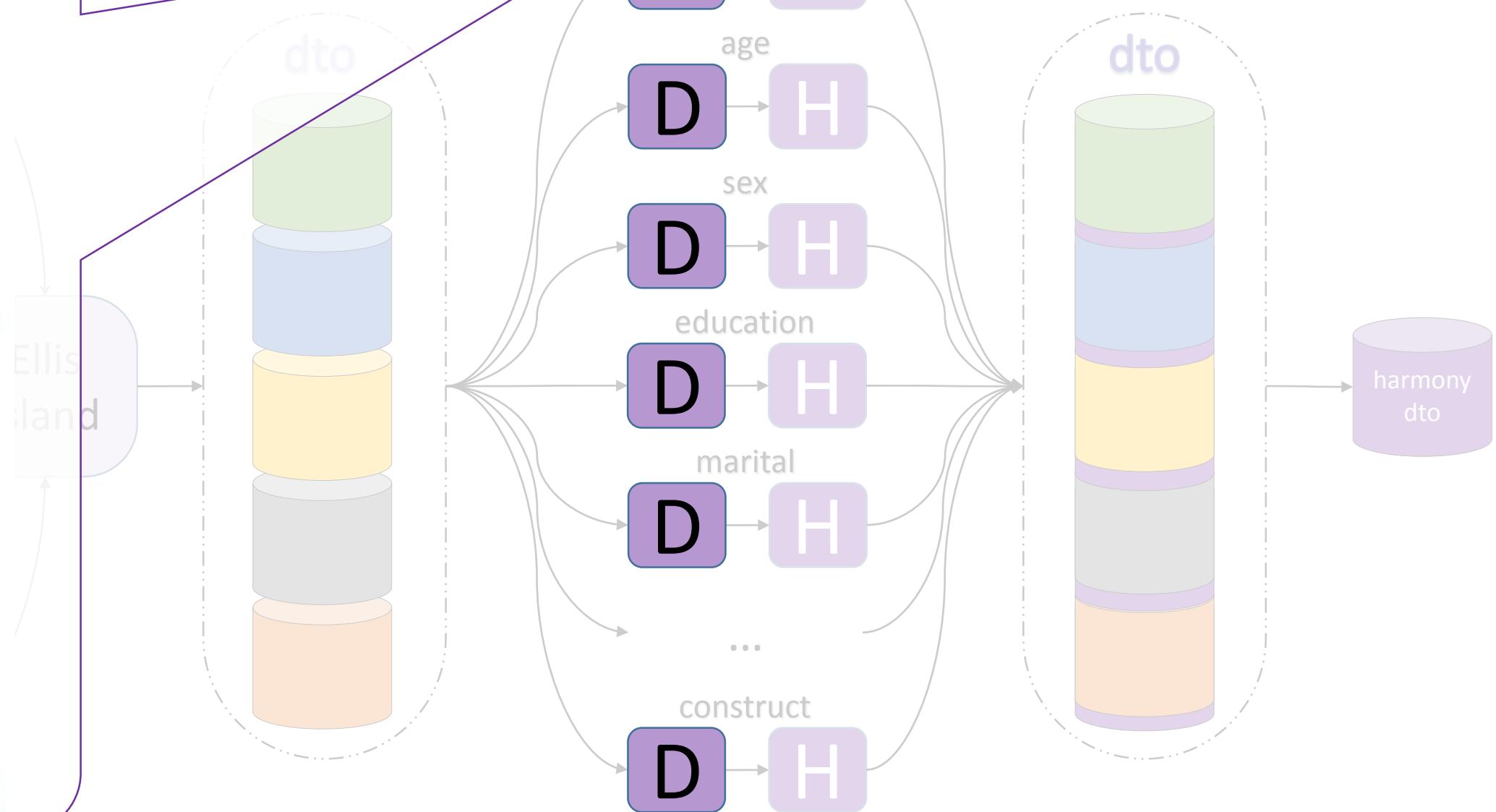


describe || harmonize



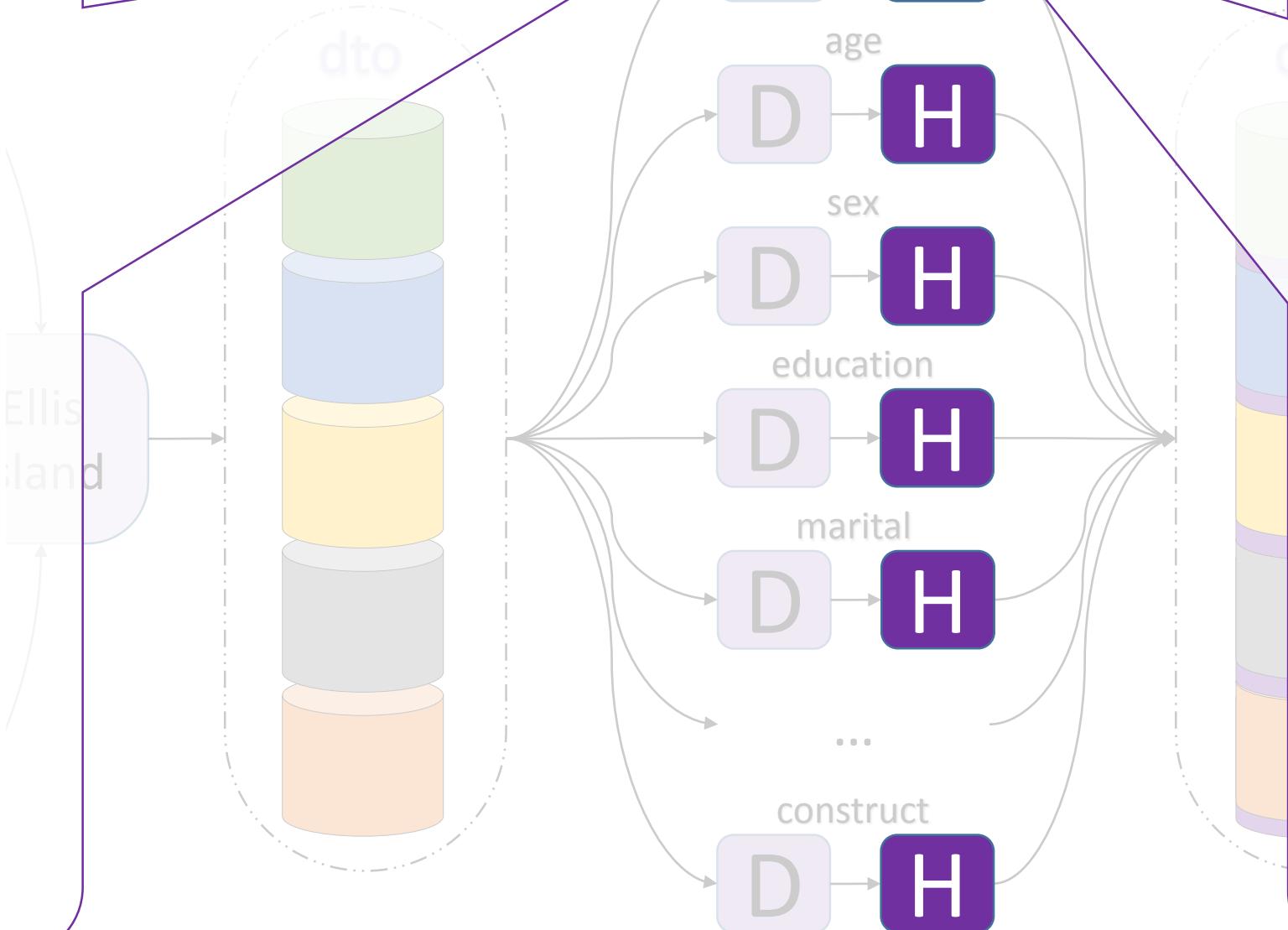
describe || harmonize

- Exposition
 - Ellis Island
 - Meta
- ALSA
 - SMOKER
 - PIPCGAR
- LBSL
 - SMK94
 - SMOKE
- SATSA
 - GSMOKNOW
 - GEVRSMK
 - GEVRSNS
- SHARE
 - BR0010
 - BR0020
 - BR0030
- TILDA
 - BH001
 - BH002
 - BH003
 - BEHSMOKER



describe || harmonize

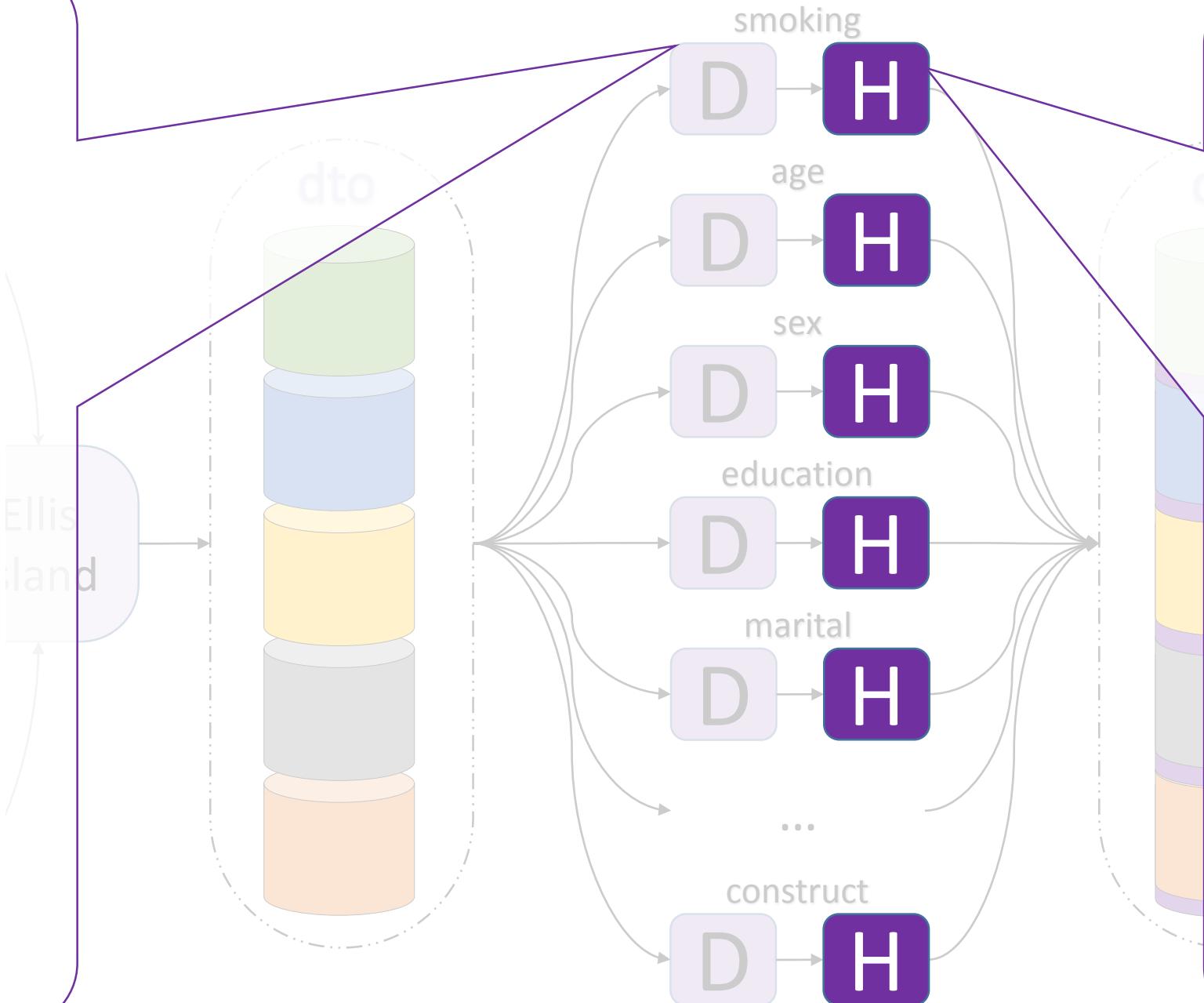
- Exposition
 - Ellis Island
 - Meta
 - ALSA
 - SMOKER
 - PIPCGAR
 - LBSL
 - SMK94
 - SMOKE
 - SATSA
 - GSMOKNOW
 - GEVRSMK
 - GEVRSNS
 - SHARE
 - BR0010
 - BR0020
 - BR0030
 - TILDA
 - BH001
 - BH002
 - BH003
 - BEHSMOKER



- (I) Exposition
 - (I.A) Ellis Island
 - Meta
 - (I.B) Target-H
- (II) Development
 - (II.A)
 - (1) Categorization
 - (2) Schema sets
 - (II.B) smoke_now
 - ALSA
 - LBSL
 - SATSA
 - SHARE
 - TILDA
 - (II.C) smoked_ever
 - ALSA
 - LBSL
 - SATSA
 - SHARE
 - TILDA
- (III) Recapitulation

prelude-describe || harmonize-sonata

- Exposition
 - Ellis Island
 - Meta
 - ALSA
 - SMOKER
 - PIPCGAR
 - LBSL
 - SMK94
 - SMOKE
 - SATSA
 - GSMOKNOW
 - GEVRSMK
 - GEVRSNS
 - SHARE
 - BR0010
 - BR0020
 - BR0030
 - TILDA
 - BH001
 - BH002
 - BH003
 - BEHSMOKER



- (I) Exposition
 - (I.A) Ellis Island
 - Meta
 - (I.B) Target-H
- (II) Development
 - (II.A)
 - (1) Categorization
 - (2) Schema sets
 - (II.B) smoke_now
 - ALSA
 - LBSL
 - SATSA
 - SHARE
 - TILDA
 - (II.C) smoked_ever
 - ALSA
 - LBSL
 - SATSA
 - SHARE
 - TILDA
- (III) Recapitulation

TARGET:

(1) **smoke_now** : Are you a smoker presently?

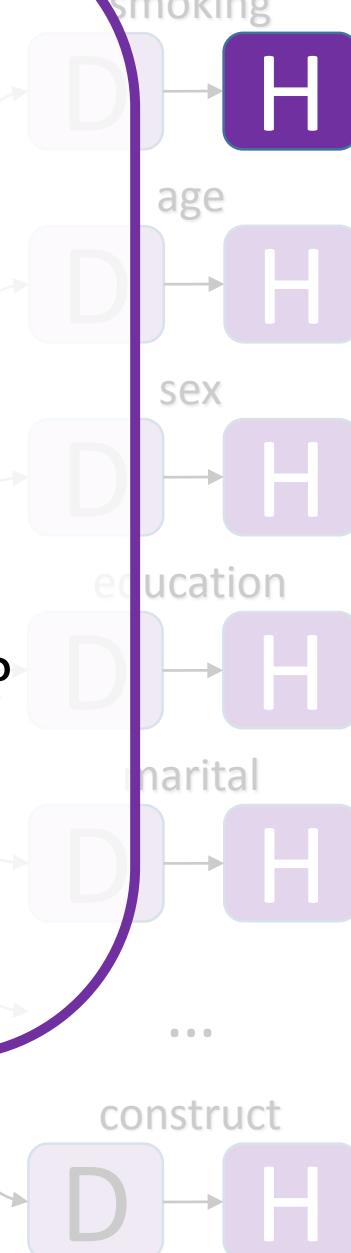
0 - *FALSE*- healthy choice

1 - *TRUE*- unhealthy choice

(2) **smoked_ever** Have you ever smoked?

0 - *FALSE*- healthy choice

1 - *TRUE*- unhealthy choice



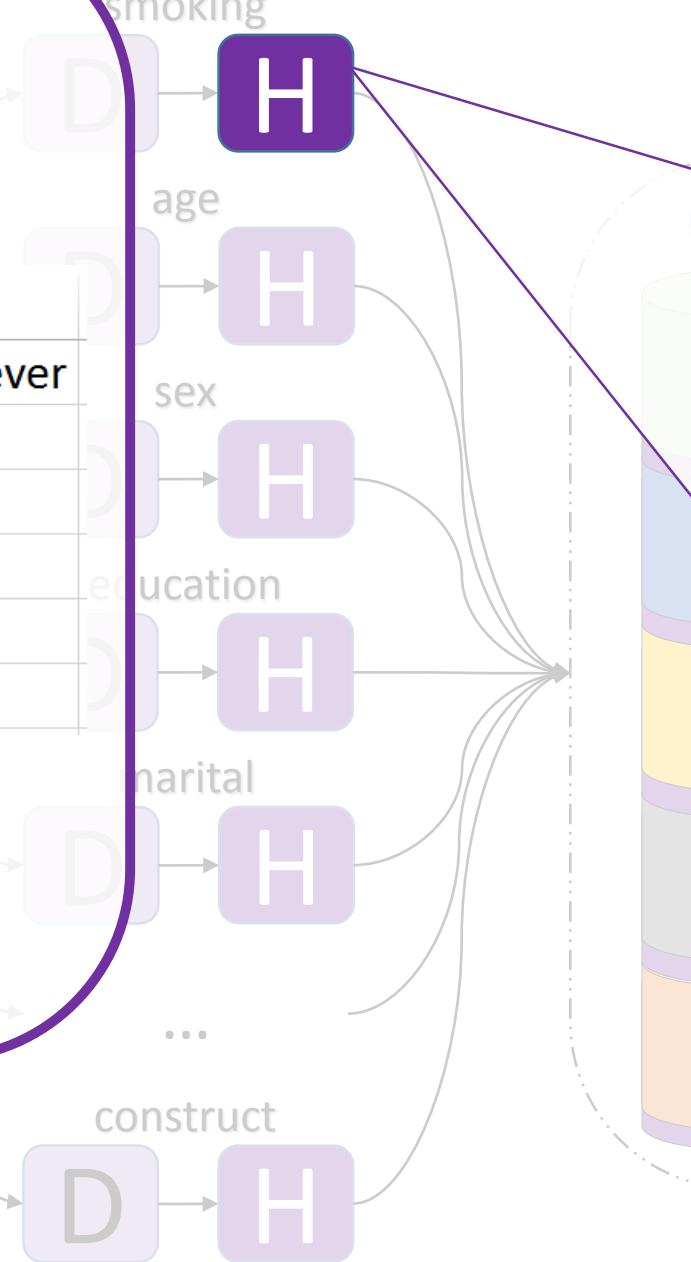
- (I) Exposition
 - (I.A) Ellis Island
 - Meta
 - (I.B) Target-H
 - (1) Categorization
 - (2) Schema sets
- (II) Development
 - (II.A)
 - (1) Categorization
 - (2) Schema sets
 - (II.B) smoke_now
 - ALSA
 - LBSL
 - SATSA
 - SHARE
 - TILDA
 - (II.C) smoked_ever
 - ALSA
 - LBSL
 - SATSA
 - SHARE
 - TILDA
- (III) Recapitulation

describe || harmonize

ALSA

	A	B	C	D	E	F
1	SMOKER	PIPCIGAR	count	7	smoke_now	smoked_ever
2	Yes	Yes		169	TRUE	TRUE
3	Yes	No		41	TRUE	TRUE
4	No	Yes		1851	TRUE	TRUE
5	No	NA		19	FALSE	FALSE
6	NA	NA			NA	NA

[./data/meta/h-rules](#)



- (I) Exposition
 - (I.A) Ellis Island
 - Meta
 - (I.B) Target-H
 - (Red oval surrounds this item)
- (II) Development
 - (II.A)
 - (1) Categorization
 - (2) Schema sets
 - (II.B) smoke_now
 - ALSA
 - LBSL
 - SATSA
 - SHARE
 - TILDA
 - (II.C) smoked_ever
 - ALSA
 - LBSL
 - SATSA
 - SHARE
 - TILDA
- (III) Recapitulation

ialsa-2016-groningen

Maelstrom Harmonization Workshop. Assessing the impact of different harmonization procedures on the analysis results from several real datasets.

[Welcome](#) - [letter of invitation](#) - [list of participants](#) - [summary of the agenda](#) - [directions and locations](#)

[Documentation](#) : - [Maelstrom Obiba Wiki](#) - [source data objects](#) - [resources and references](#) - [reproducibility instructions](#)

Focus

Habits, prevalence of, and factors associated with smoking among older adults.

Overview

- Full list of variables and their [labels](#) used in the exercise, as extracted from the raw source files. This file was augmented with [additional meta-data](#).
- Data provisioning documentation : the [Ellis Island](#) report.
- [Harmonization rules](#) : mapping pattern of responses to values of the harmonized variables.

Measures and Harmonization

- Current smoking status ([describe](#), [harmonize](#))
- age ([describe](#), [harmonize](#))
- sex ([describe](#), [harmonize](#))
- marital status ([describe](#), [harmonize](#))
- educational level ([describe](#), [harmonize](#))
- working status ([describe](#), [harmonize](#))
- alcohol consumption ([describe](#), [harmonize](#))
- level of physical activity ([describe](#), [harmonize](#))
- perceived health ([describe](#), [harmonize](#))
- physique ([describe](#), [harmonize](#))

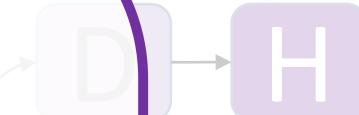
TARGET:

- **year_of_wave** - the calendaric year in which the measurement wave occurred
- **year_born** - the calendaric year in which the respondent was born
- **age_in_years** - the age of respondent in years



describe || harmonize

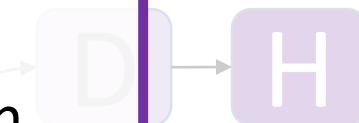
smoking



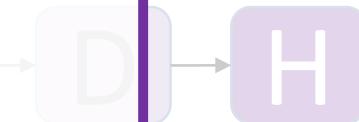
age



sex



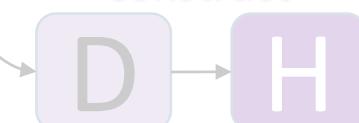
education



marital

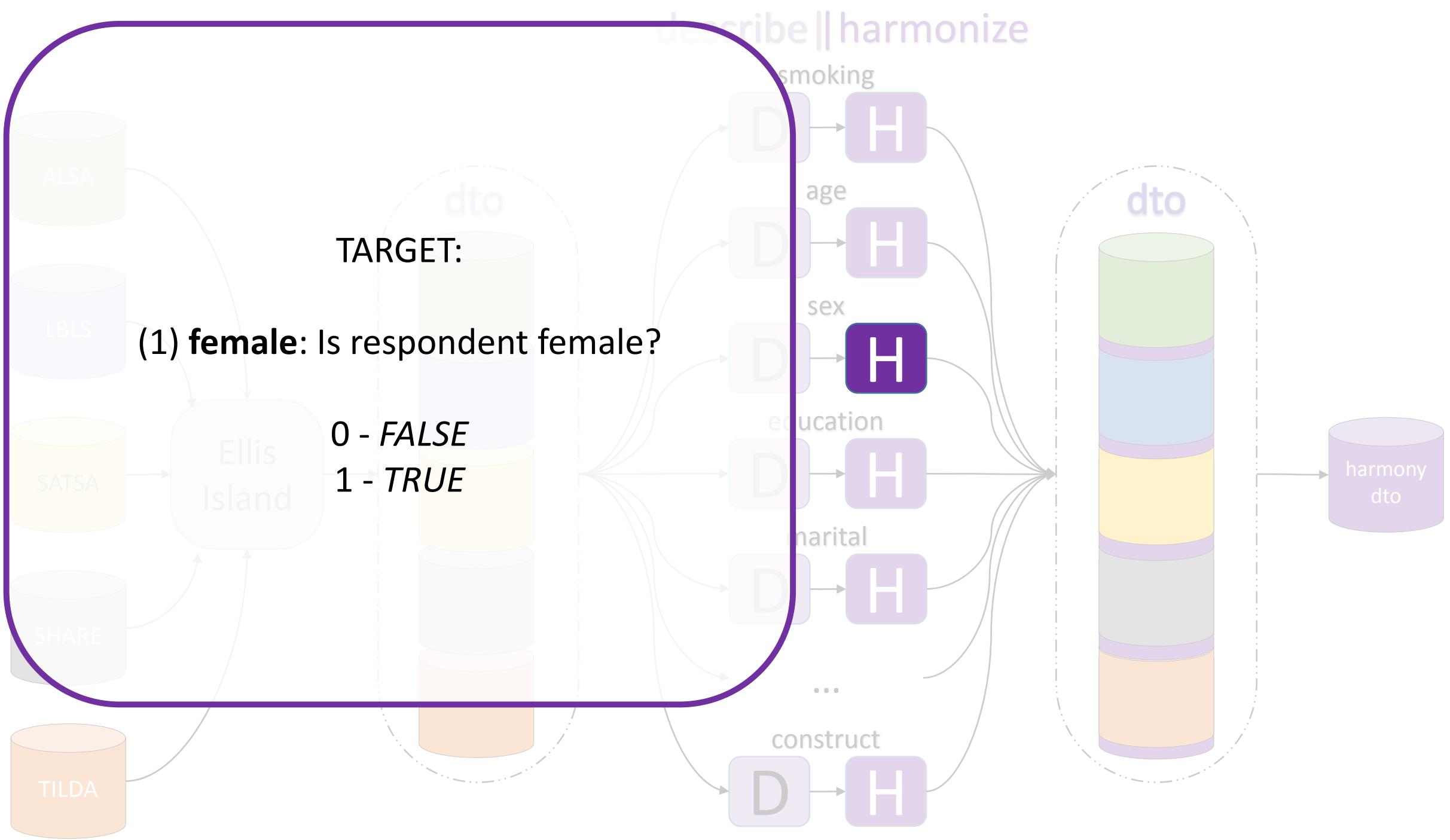


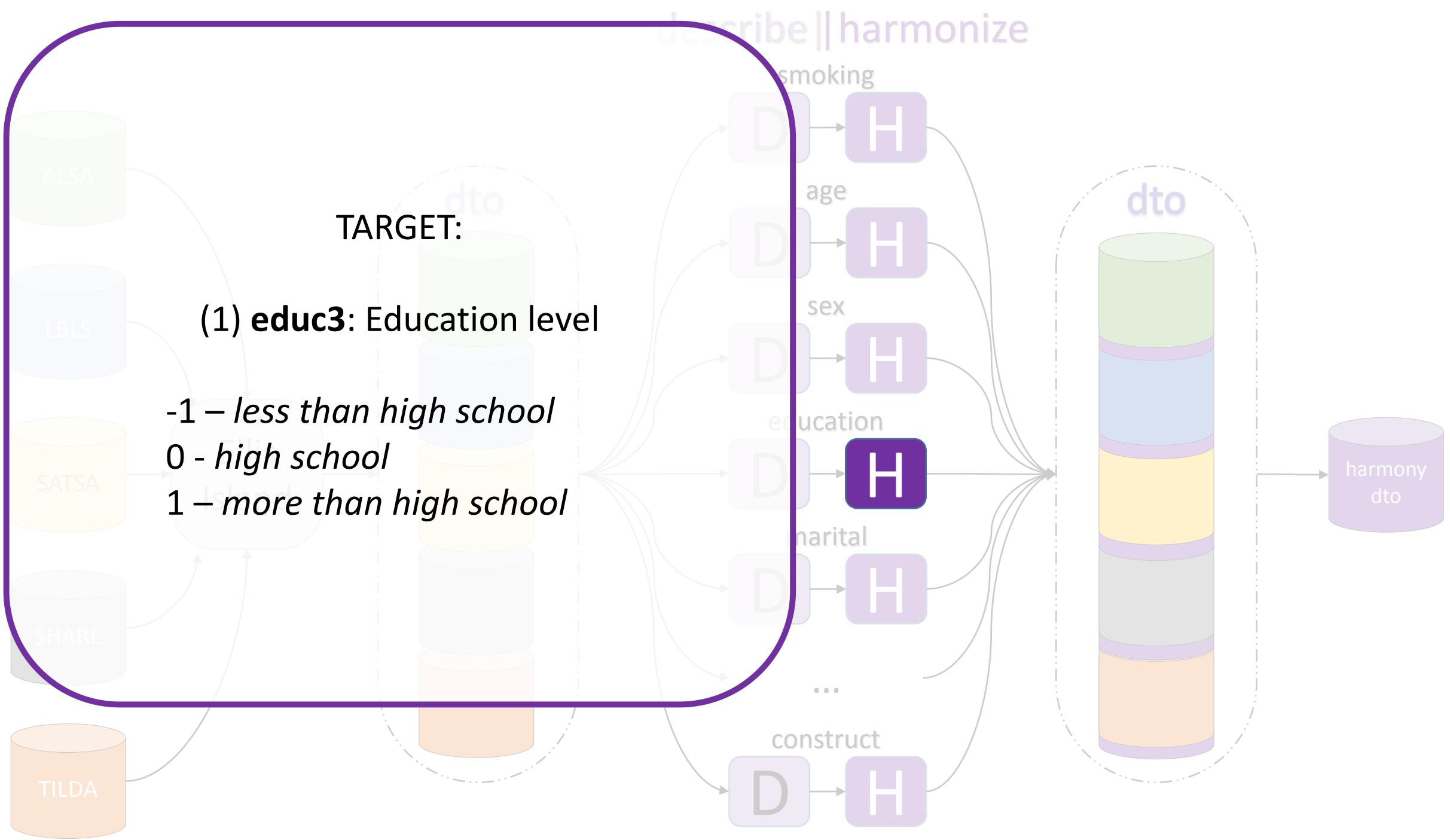
construct

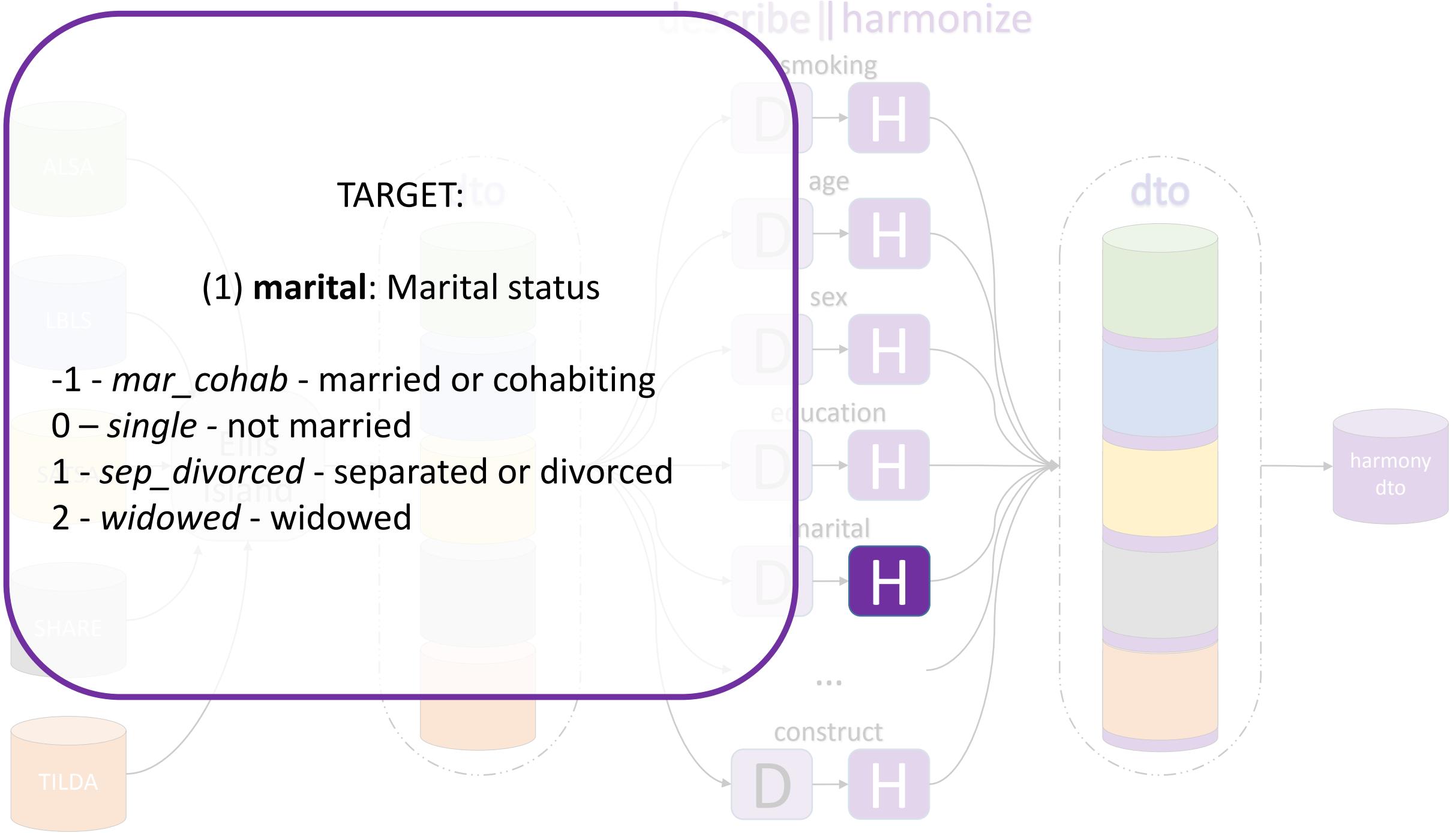


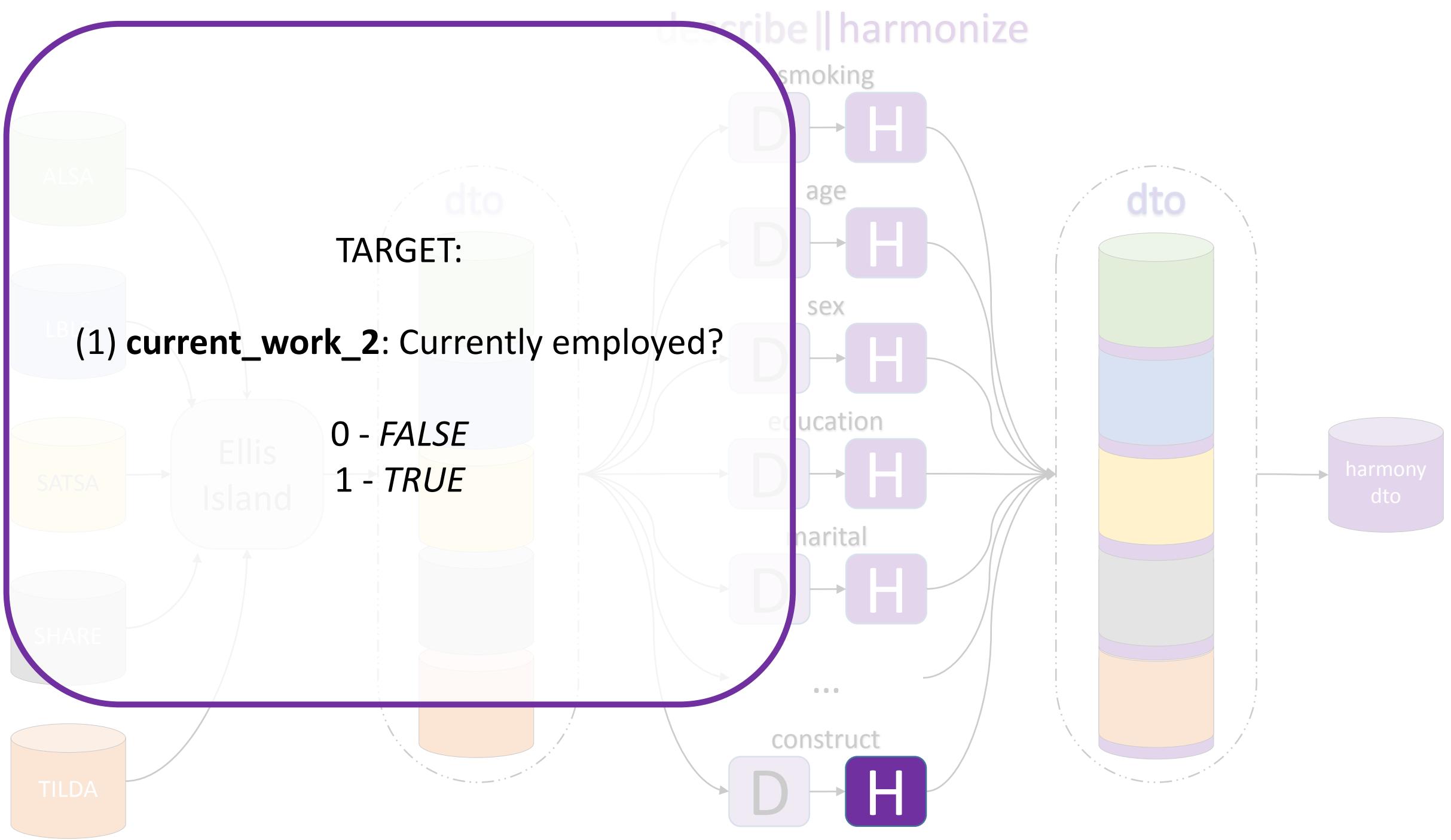
dto

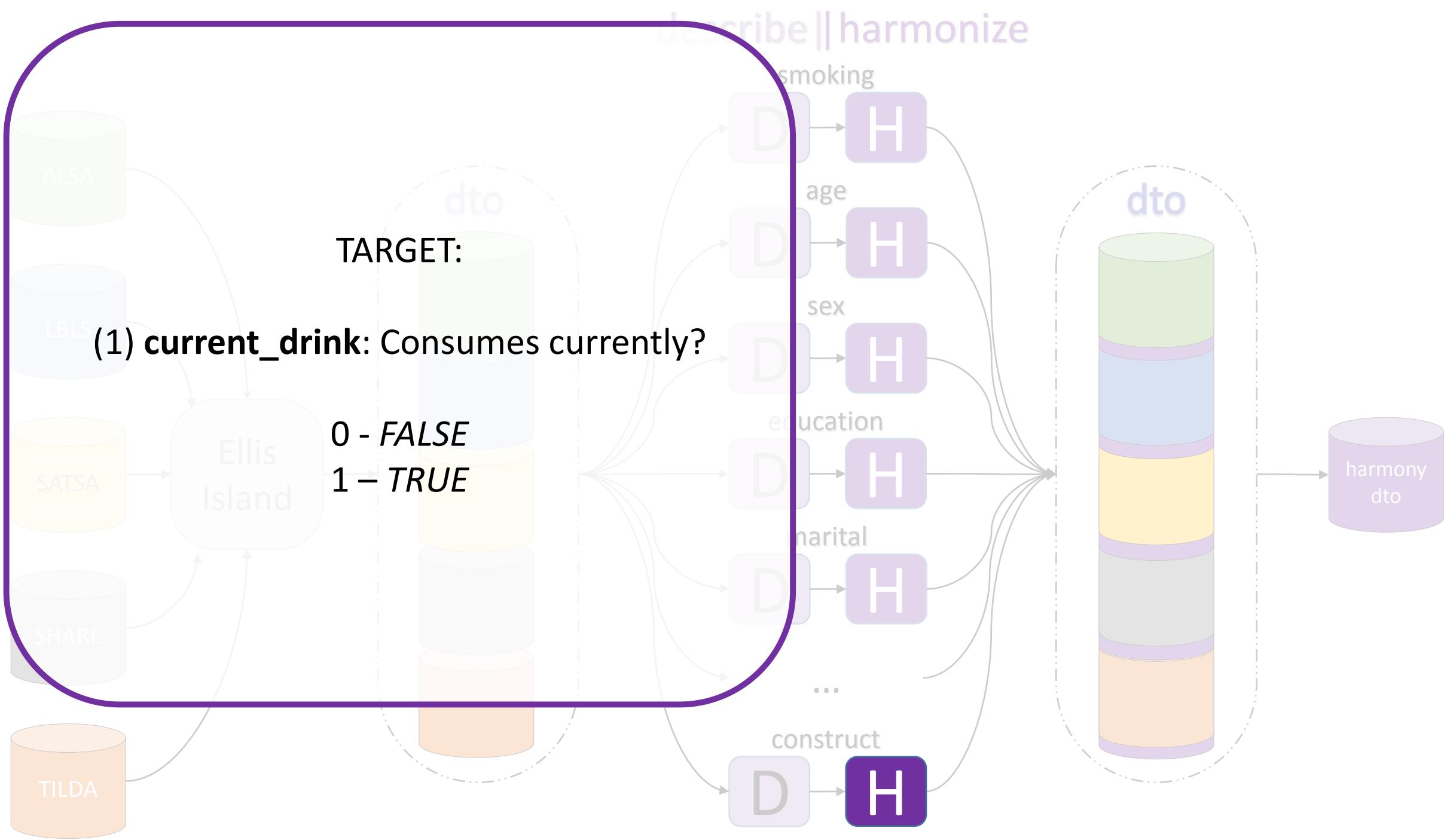


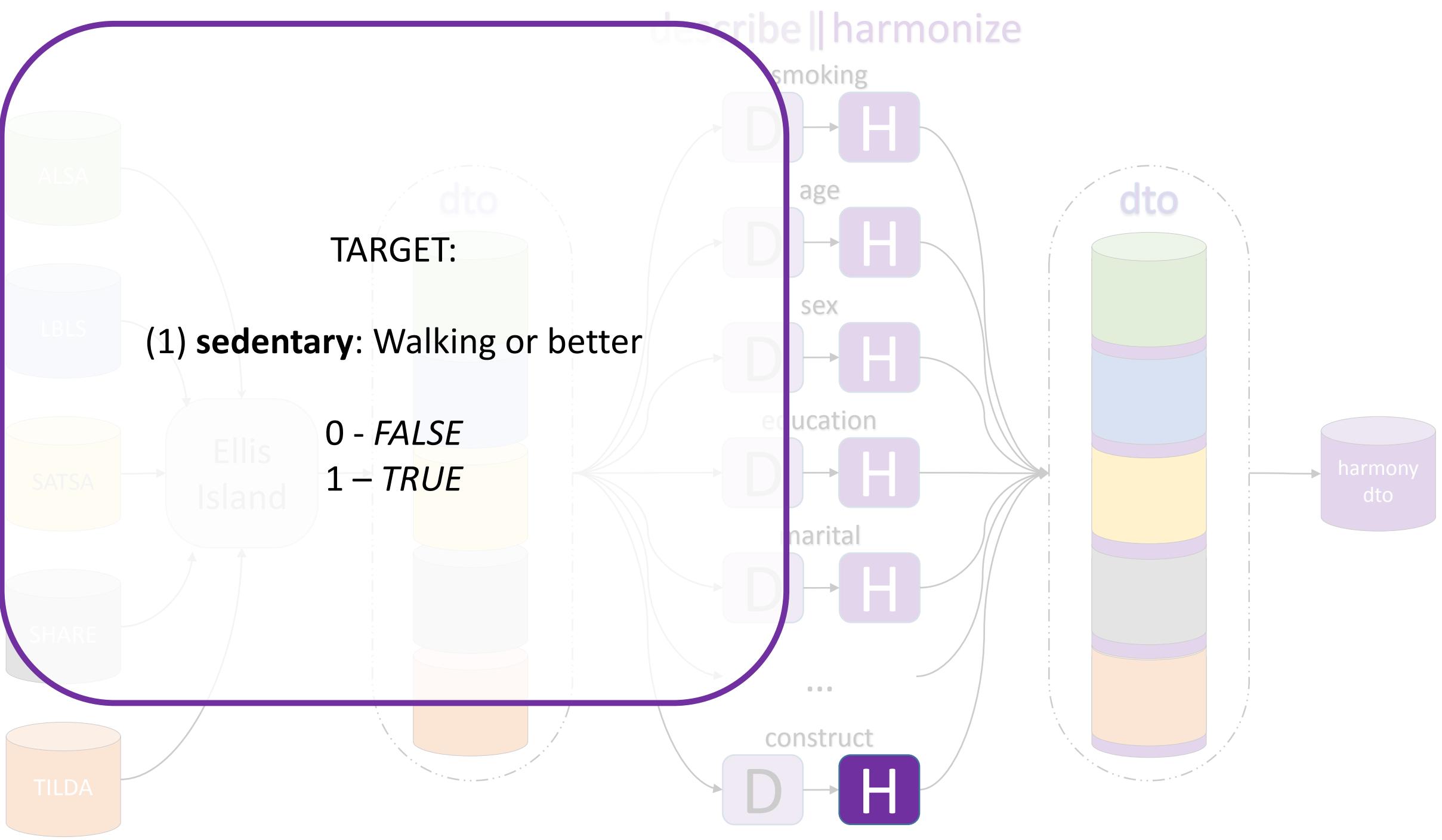


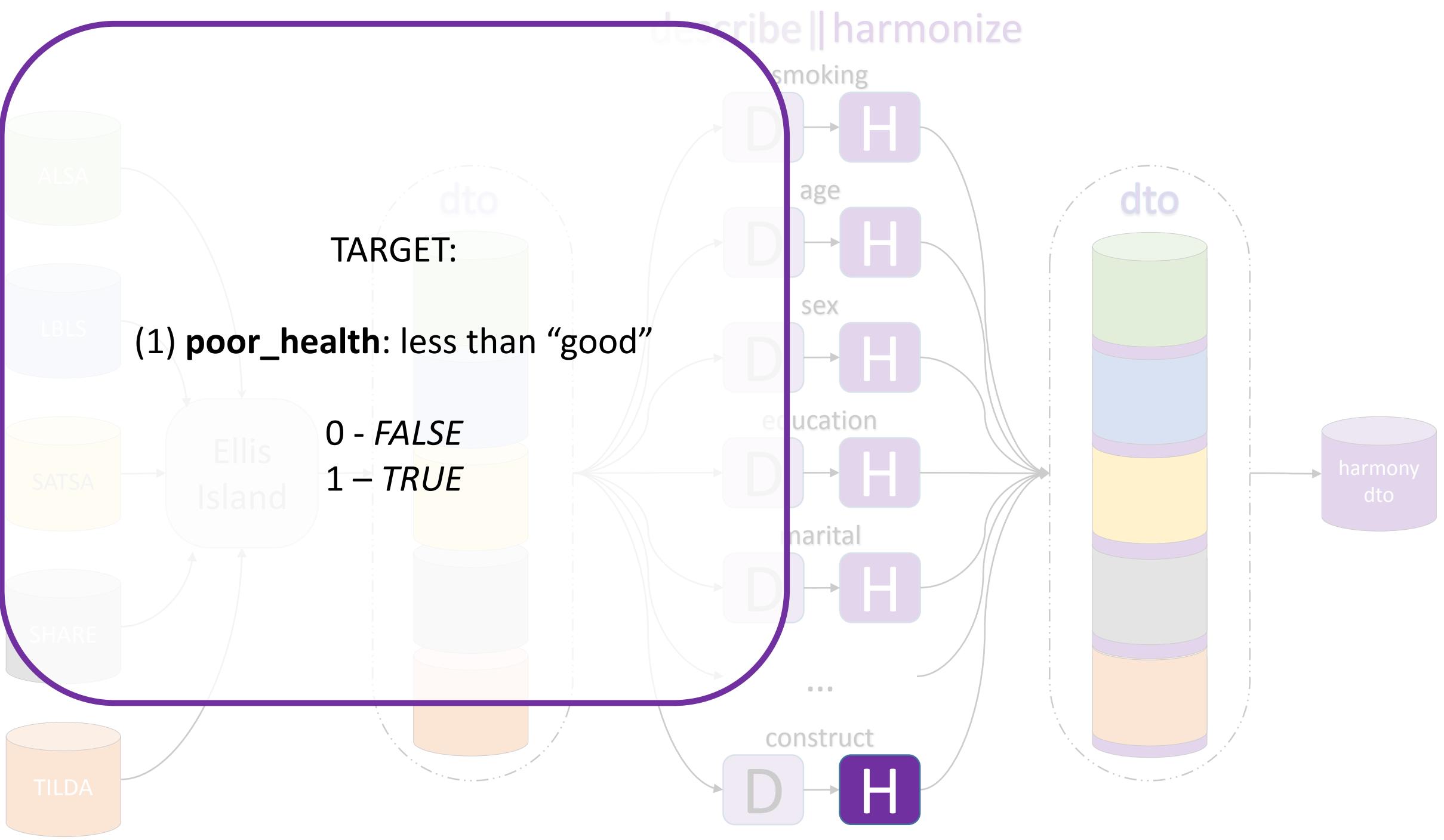


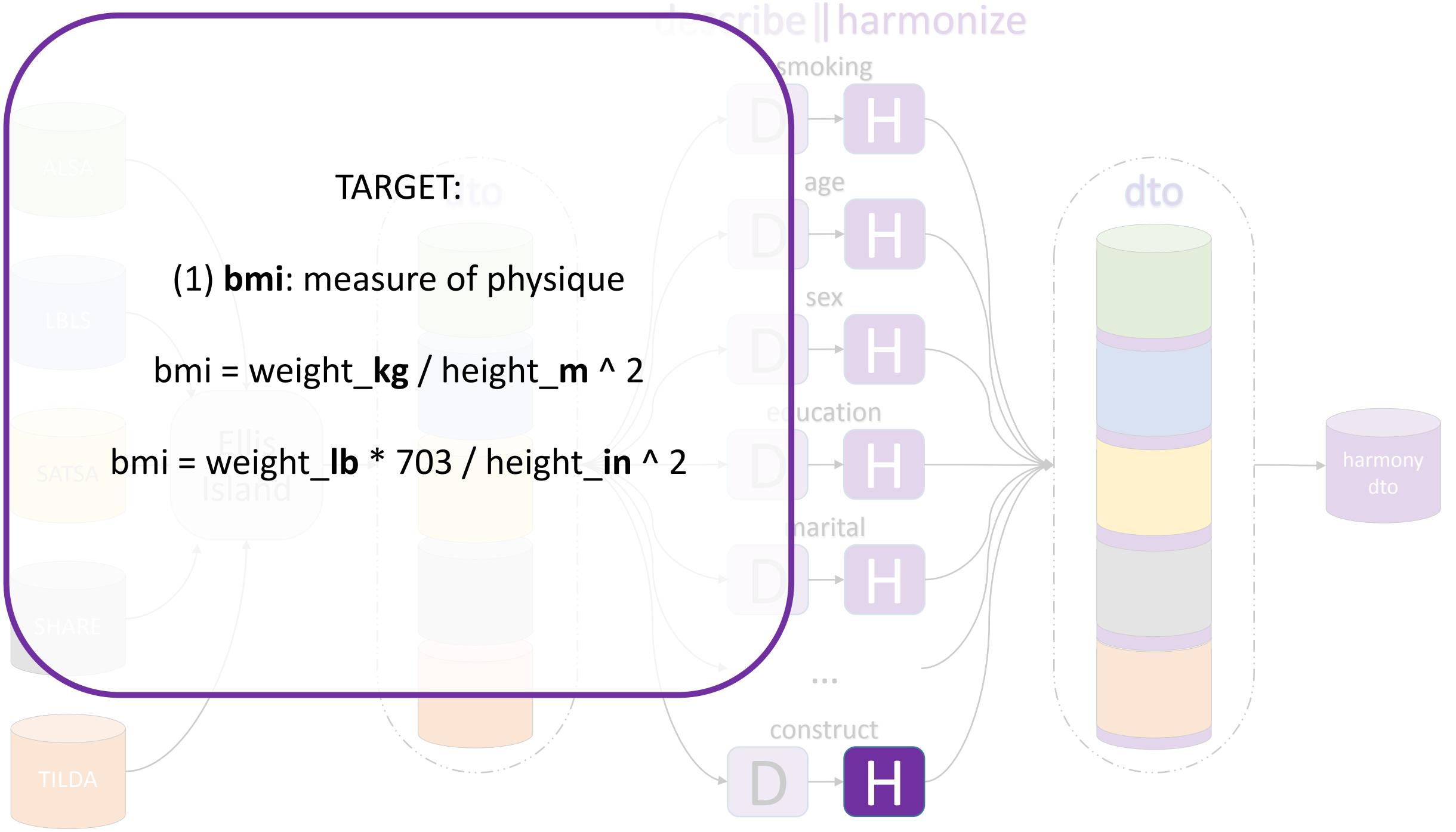




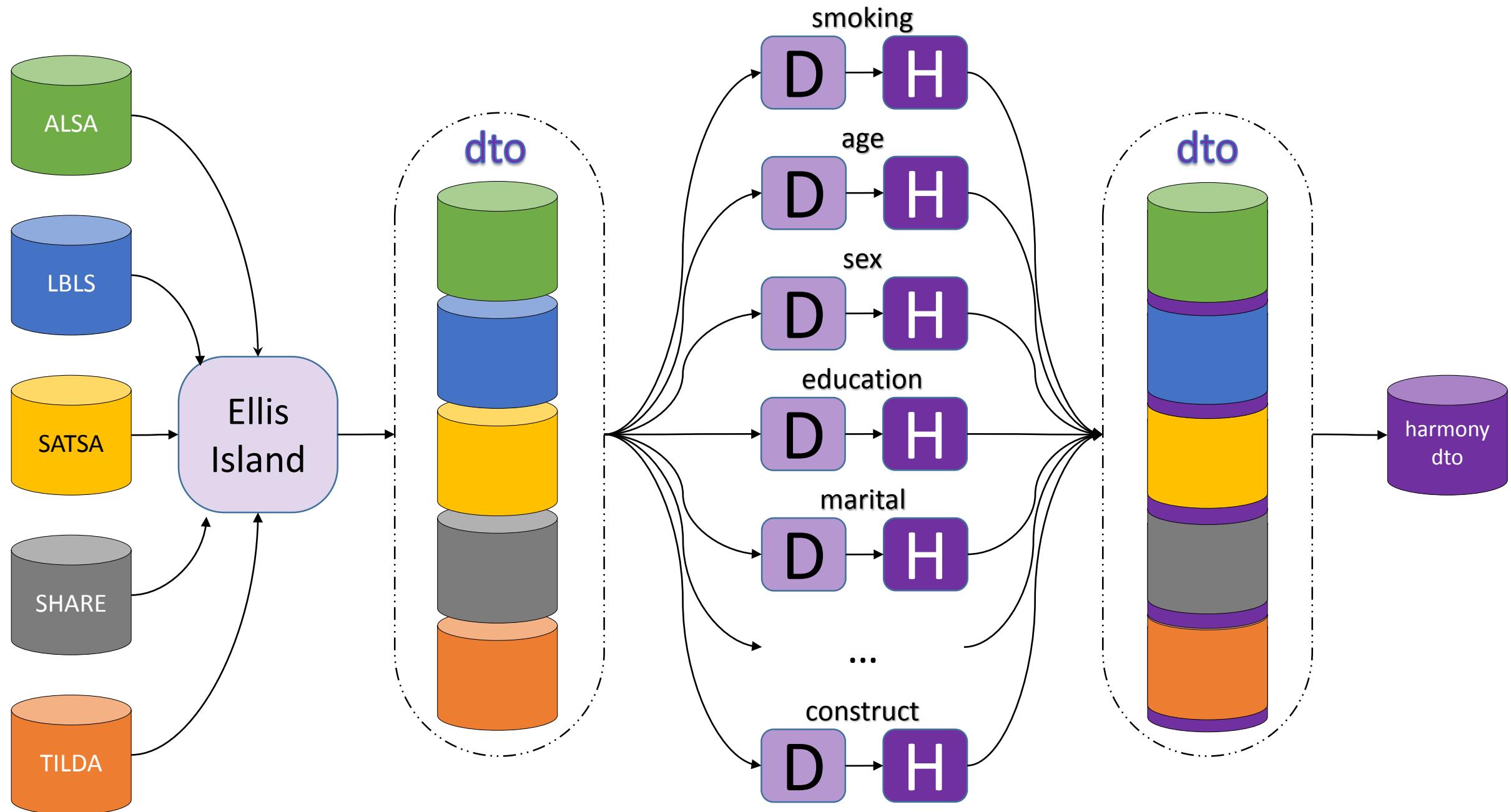




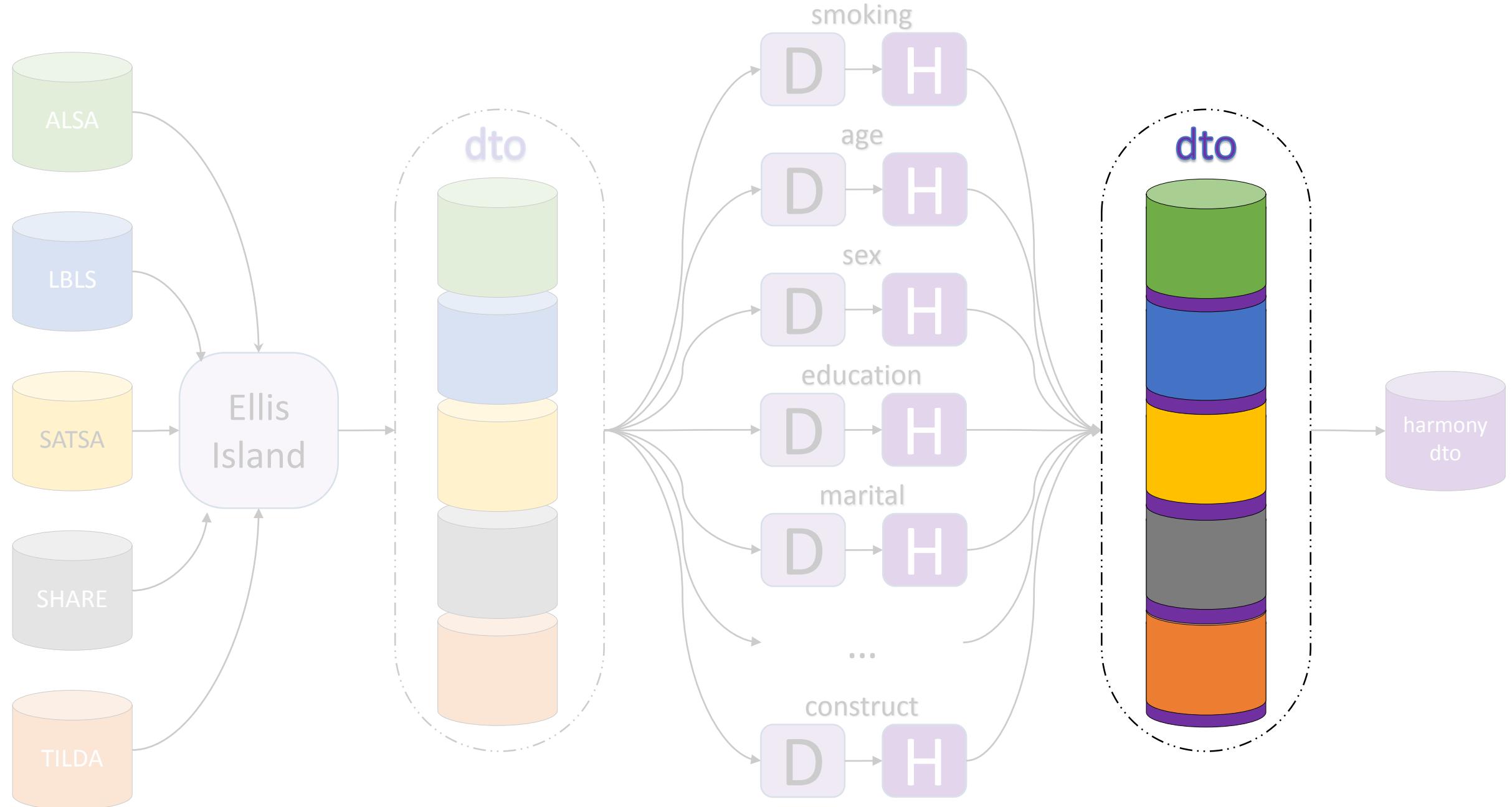




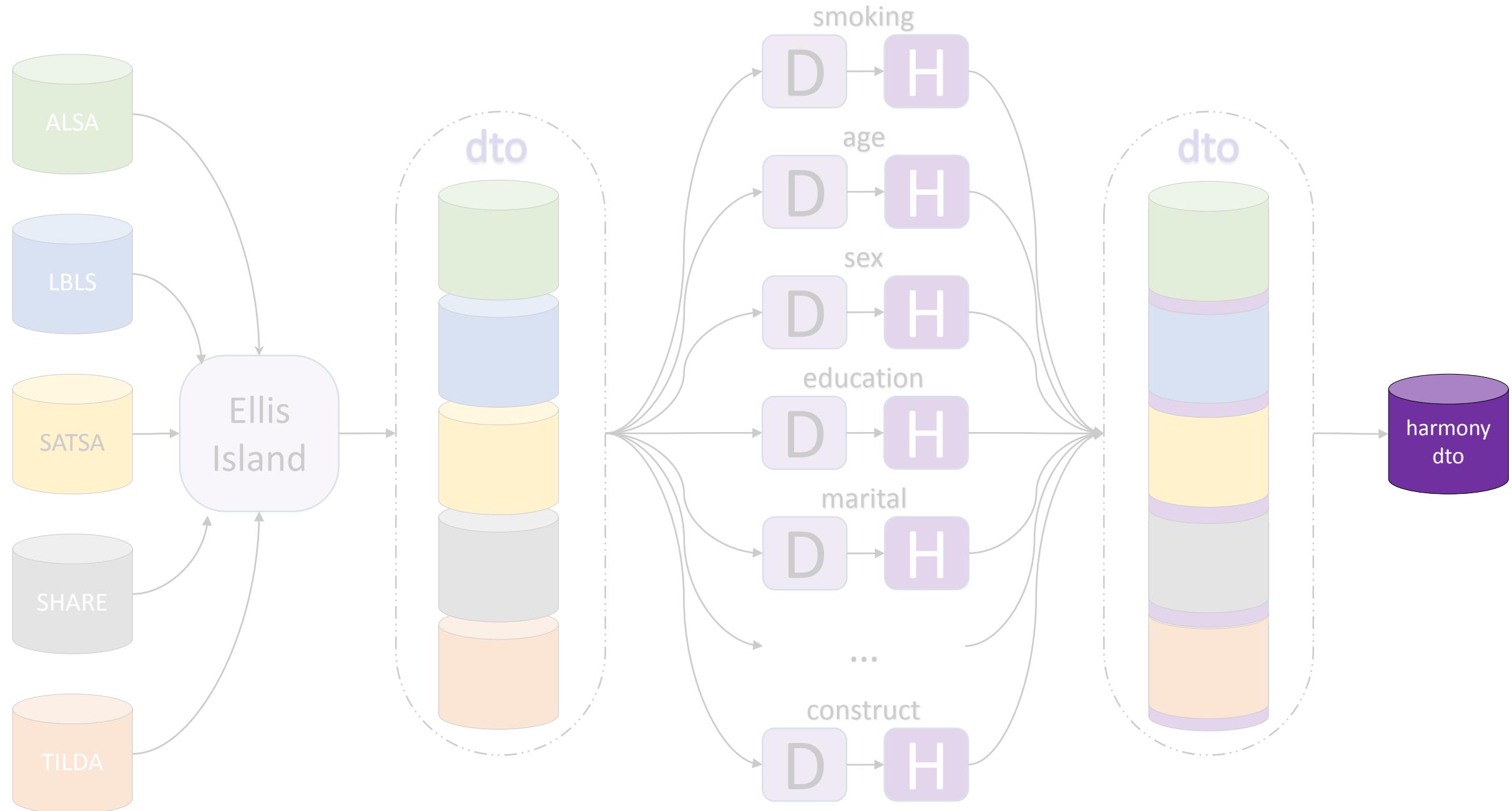
describe || harmonize



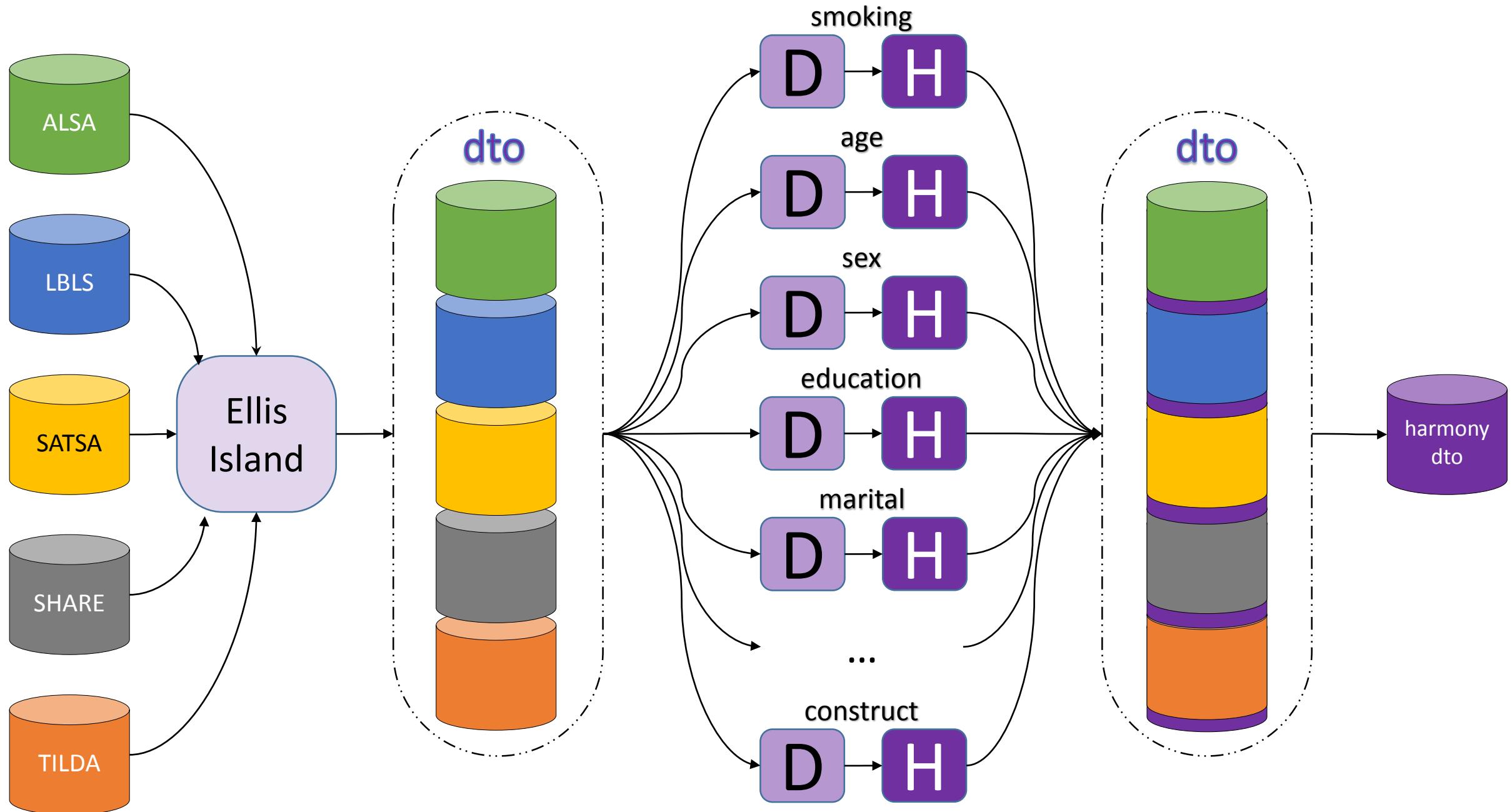
prelude || sonata

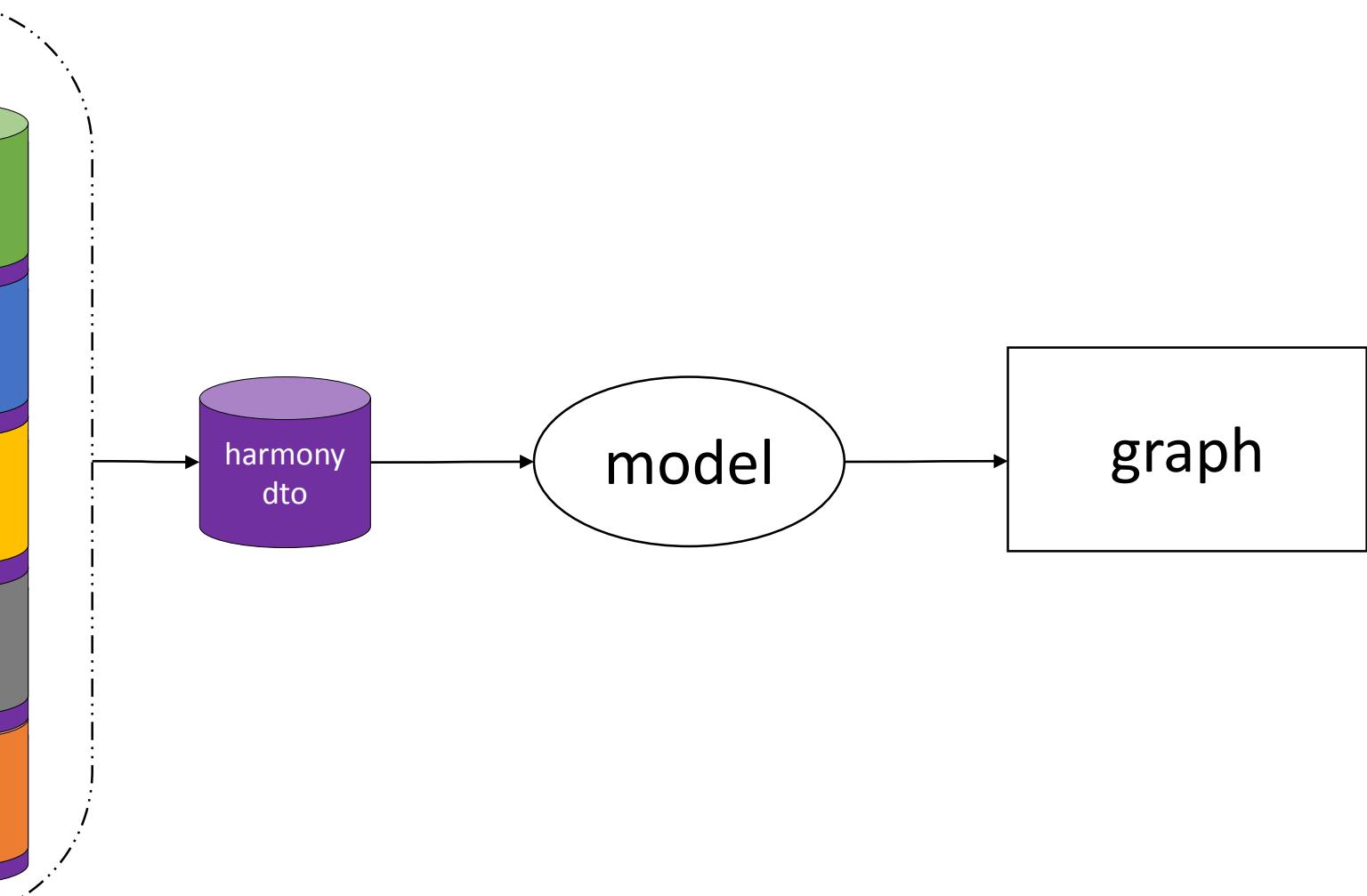


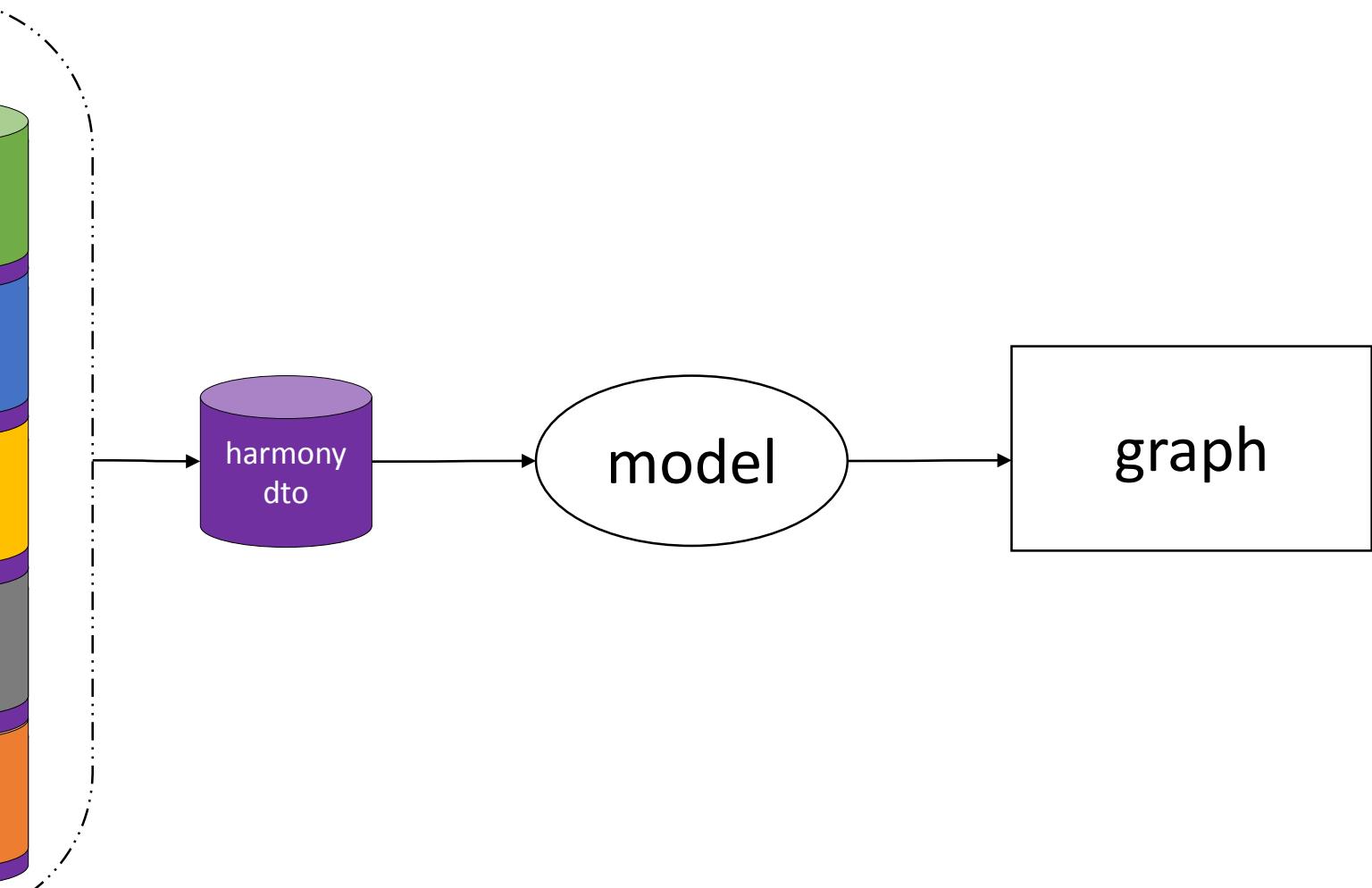
prelude || sonata



prelude || sonata



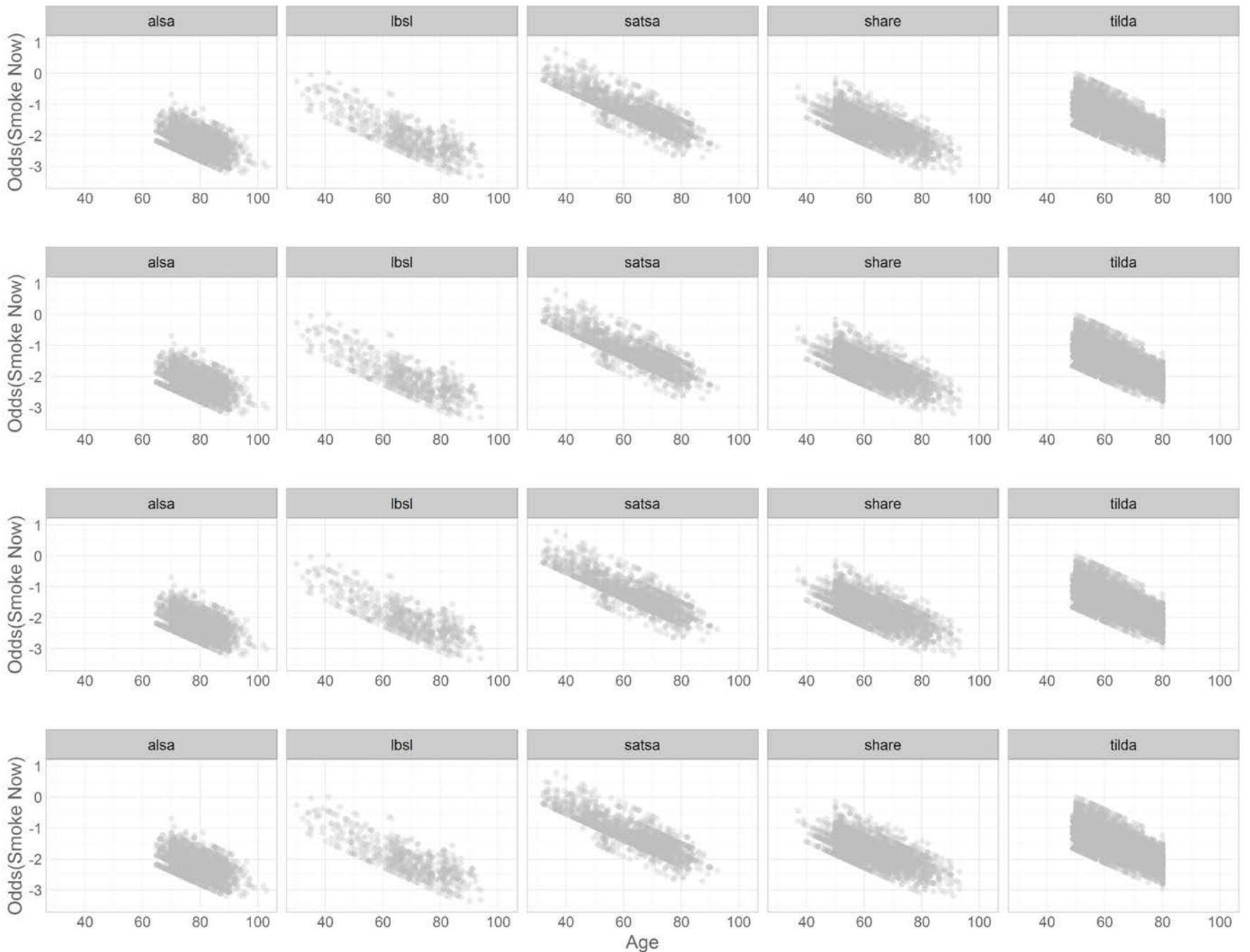




smoke_now

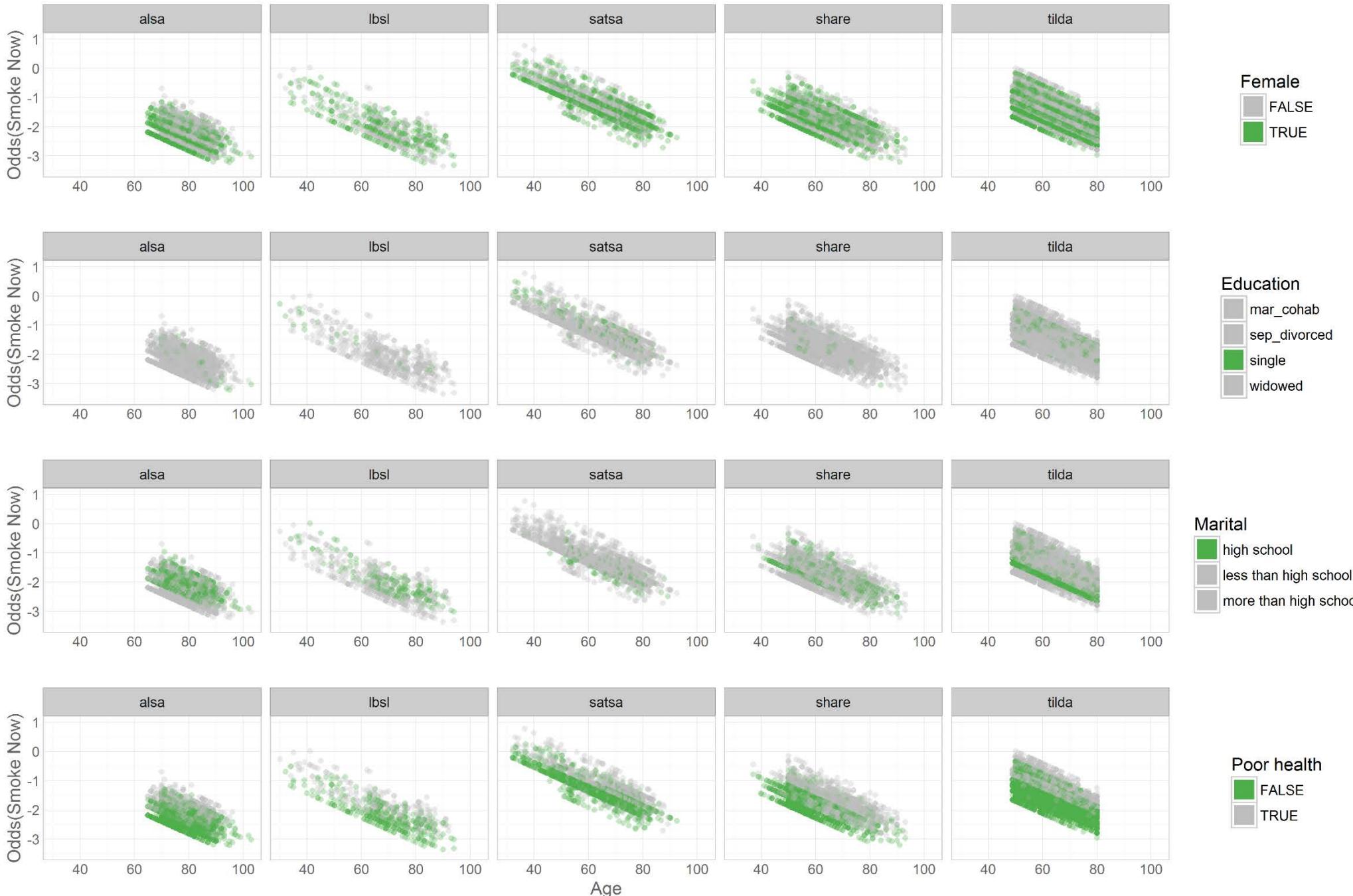
Odds | Prob

$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



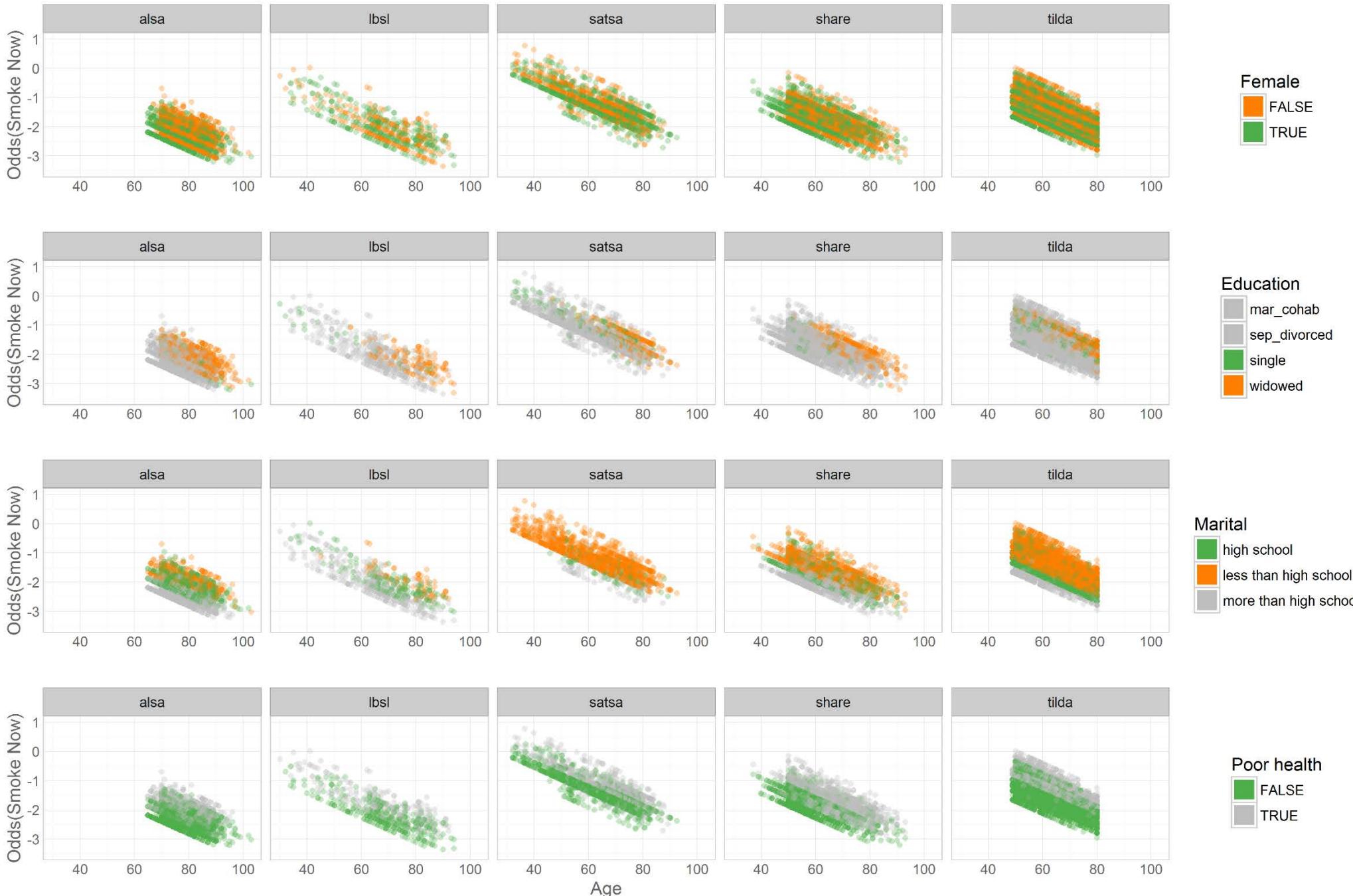
Odds || Prob

$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



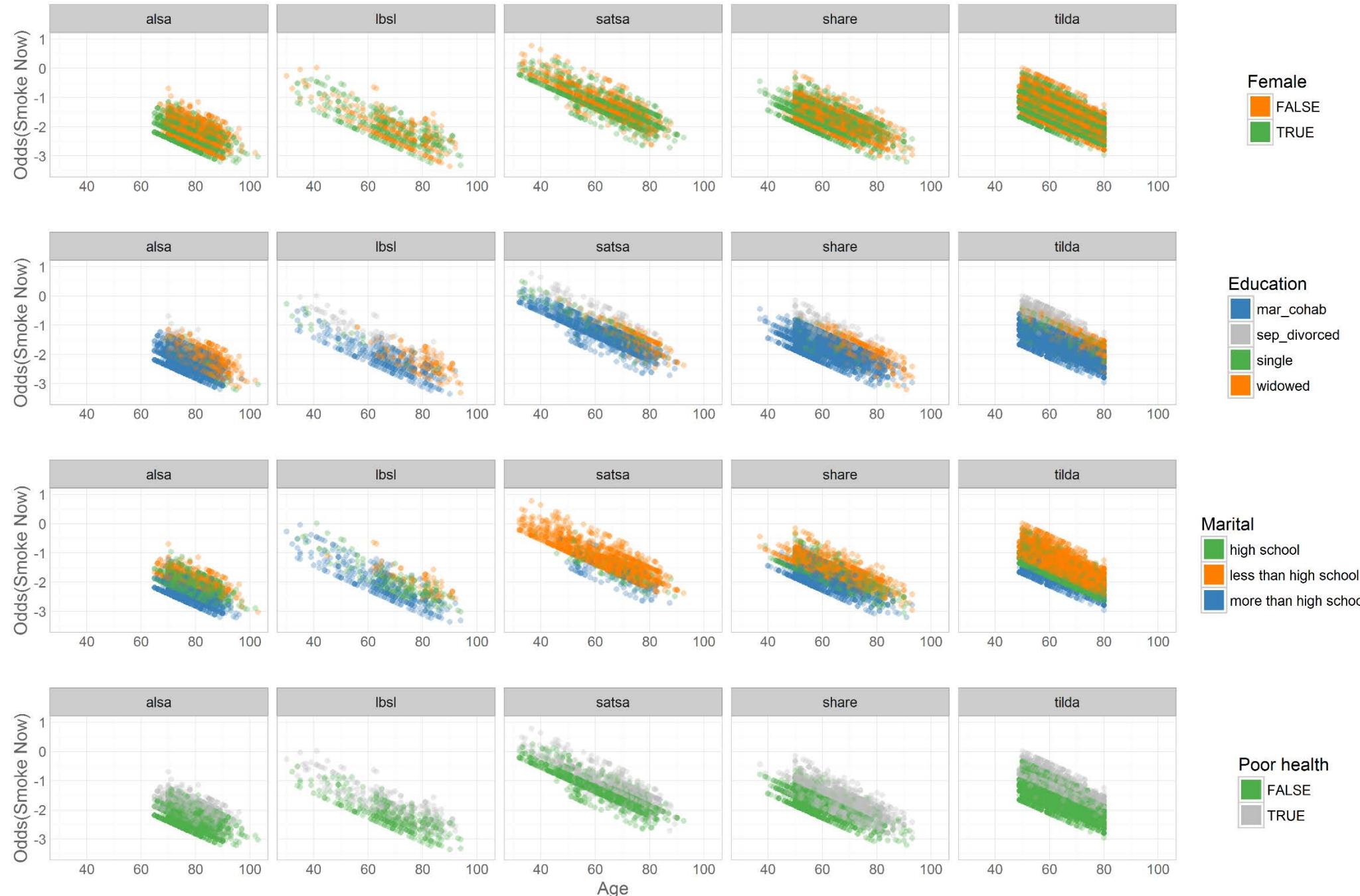
Odds || Prob

$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



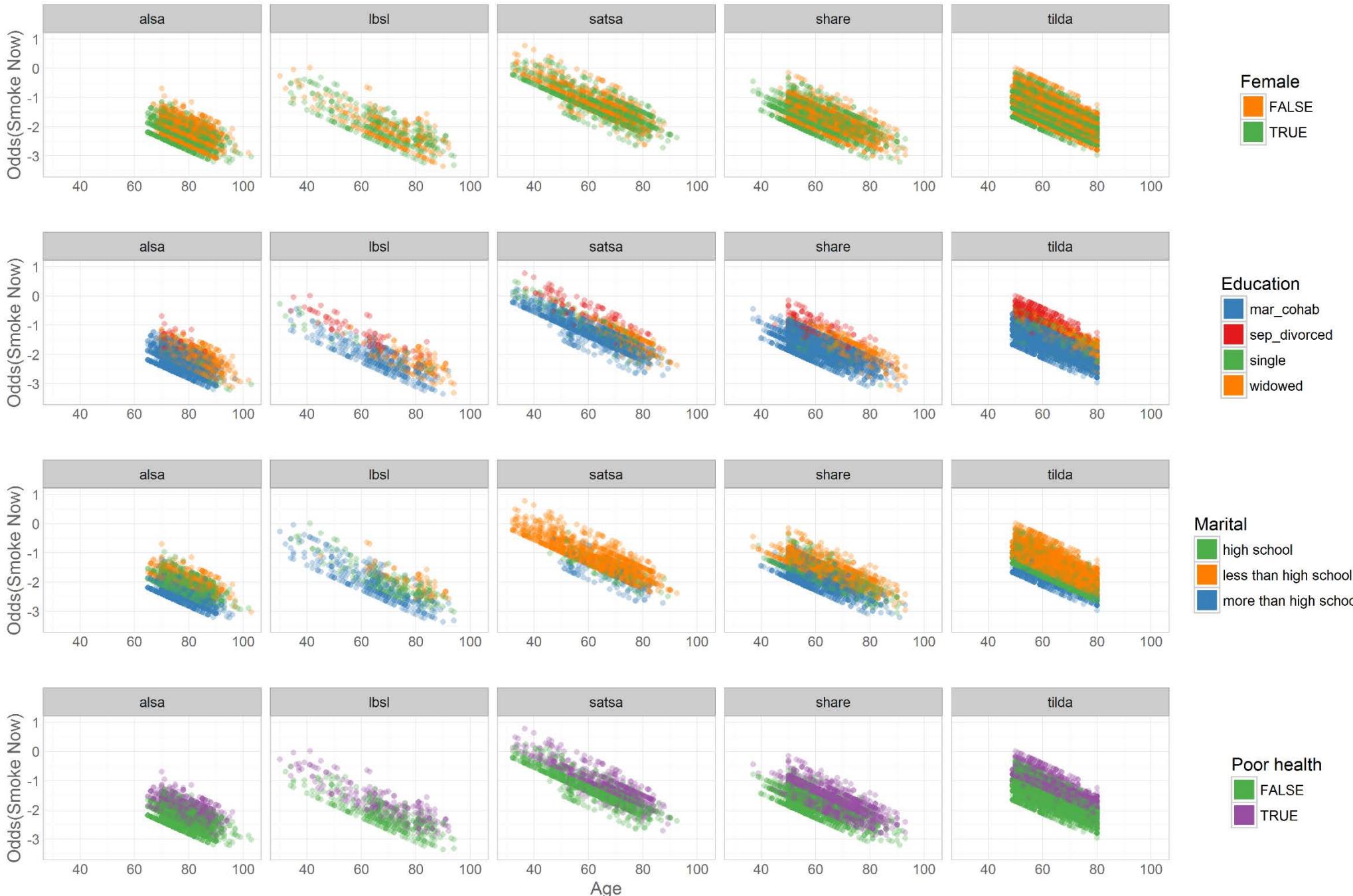
Odds || Prob

$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



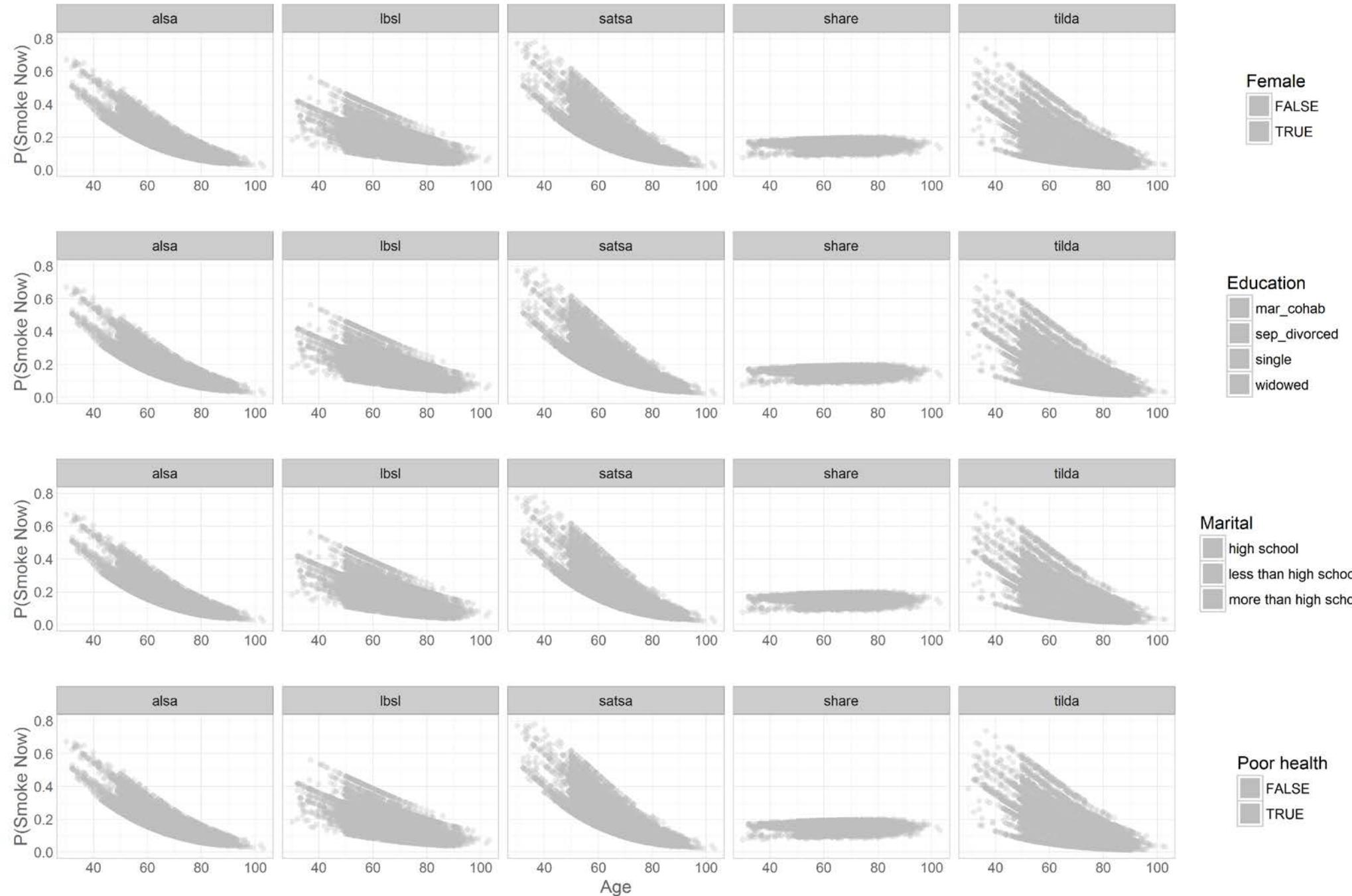
Odds || Prob

$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



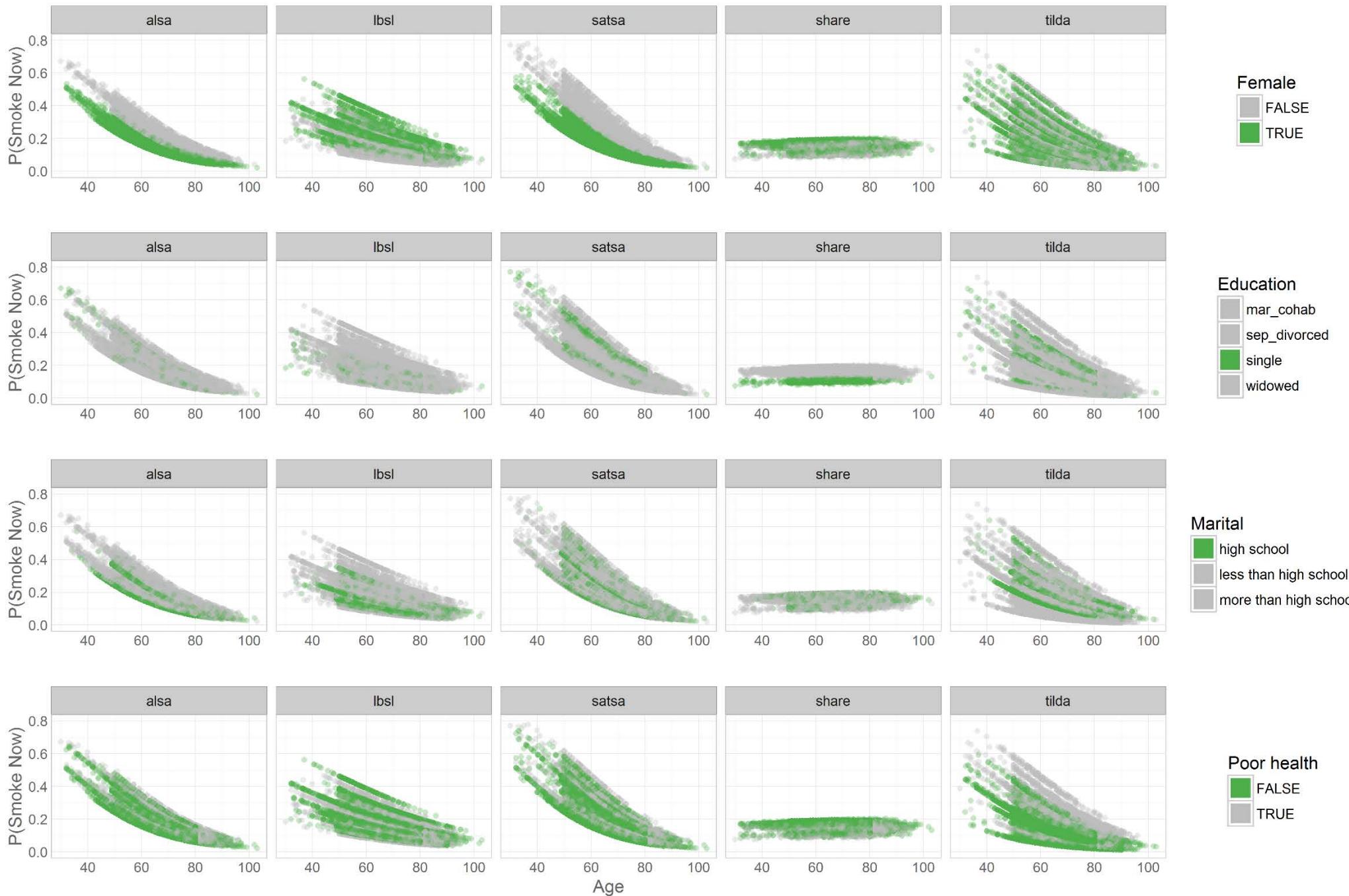
Odds || Prob

$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



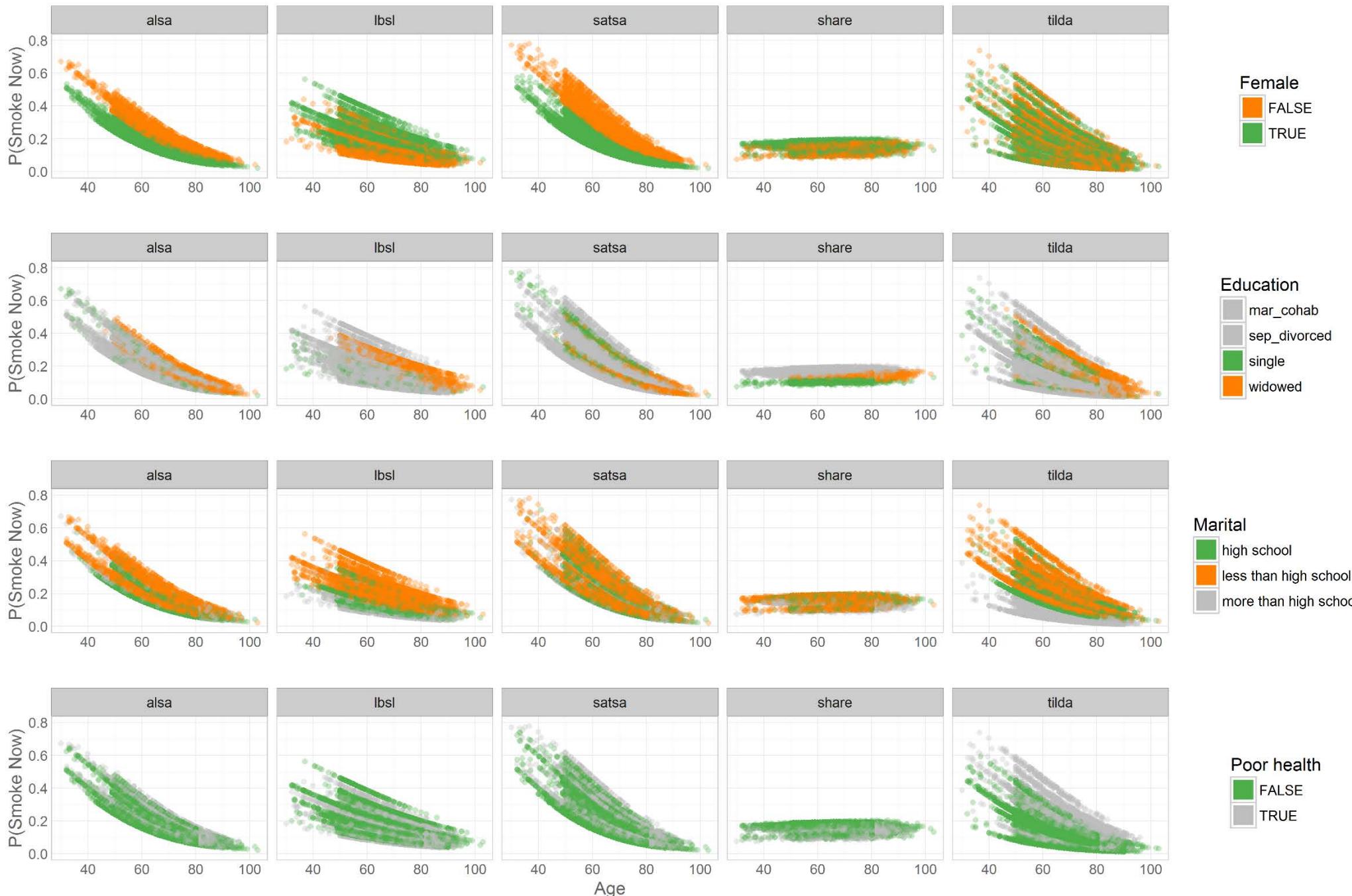
$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$

Odds || Prob



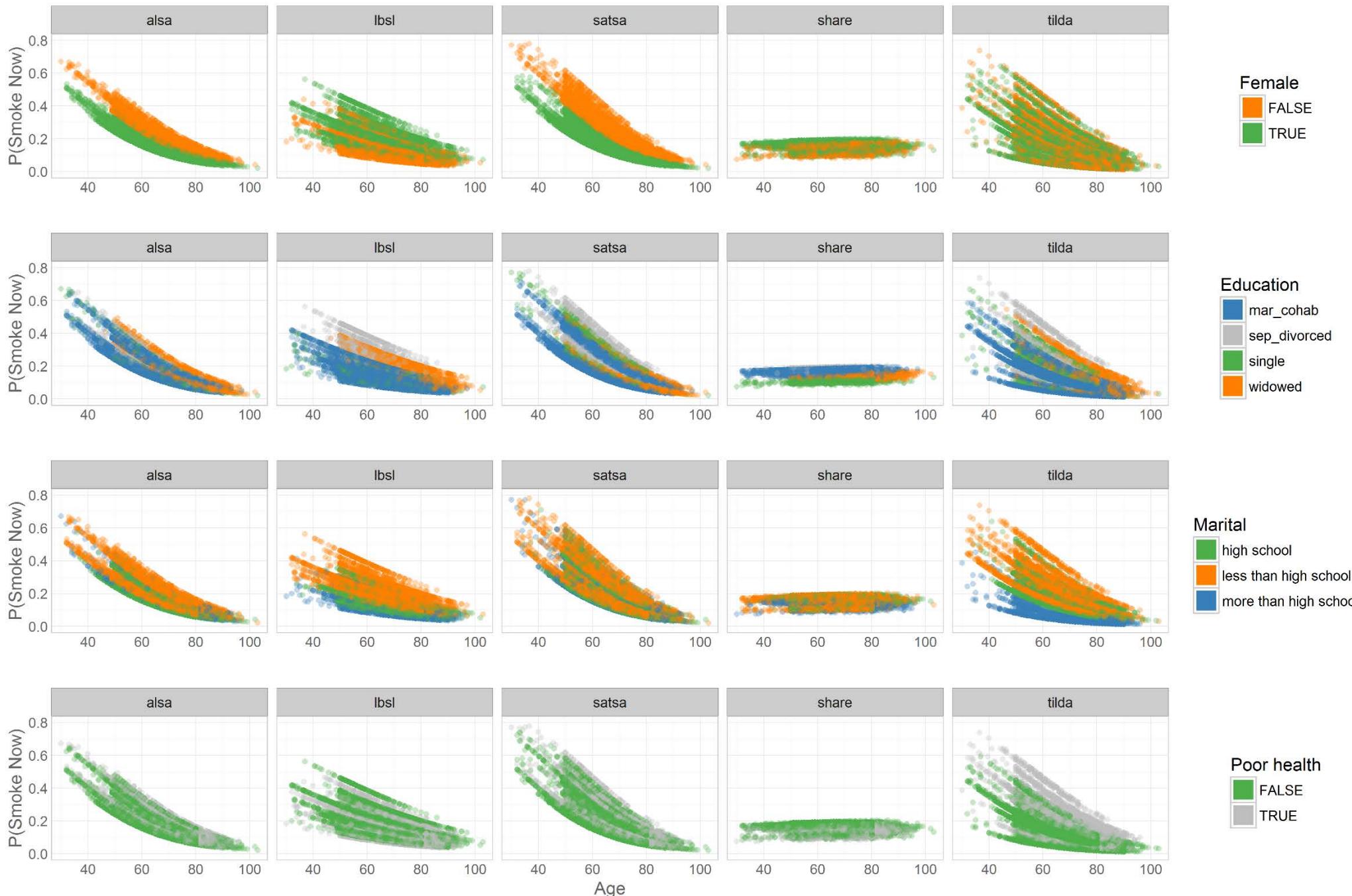
$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$

Odds || Prob



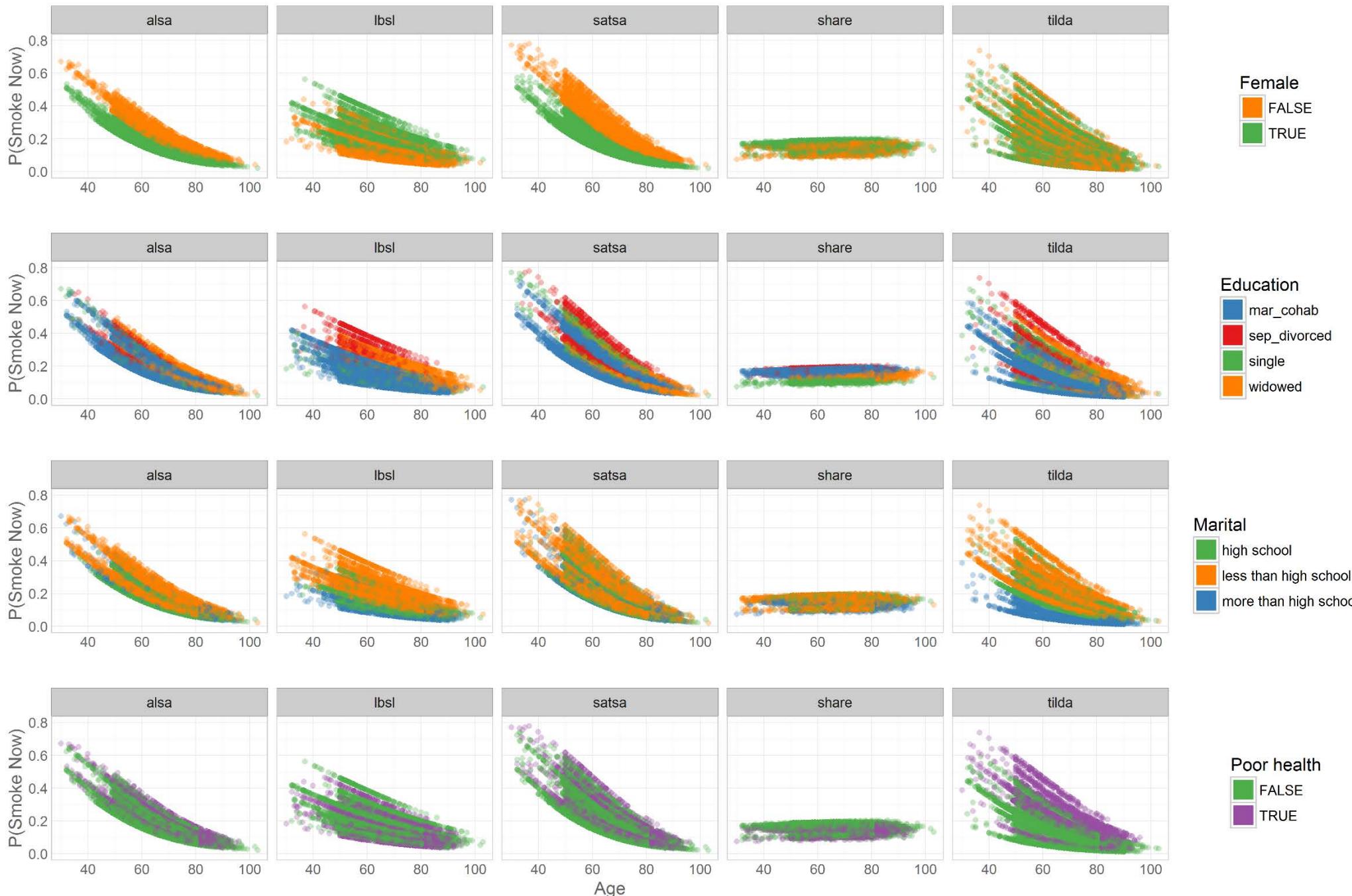
$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$

Odds || Prob



$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$

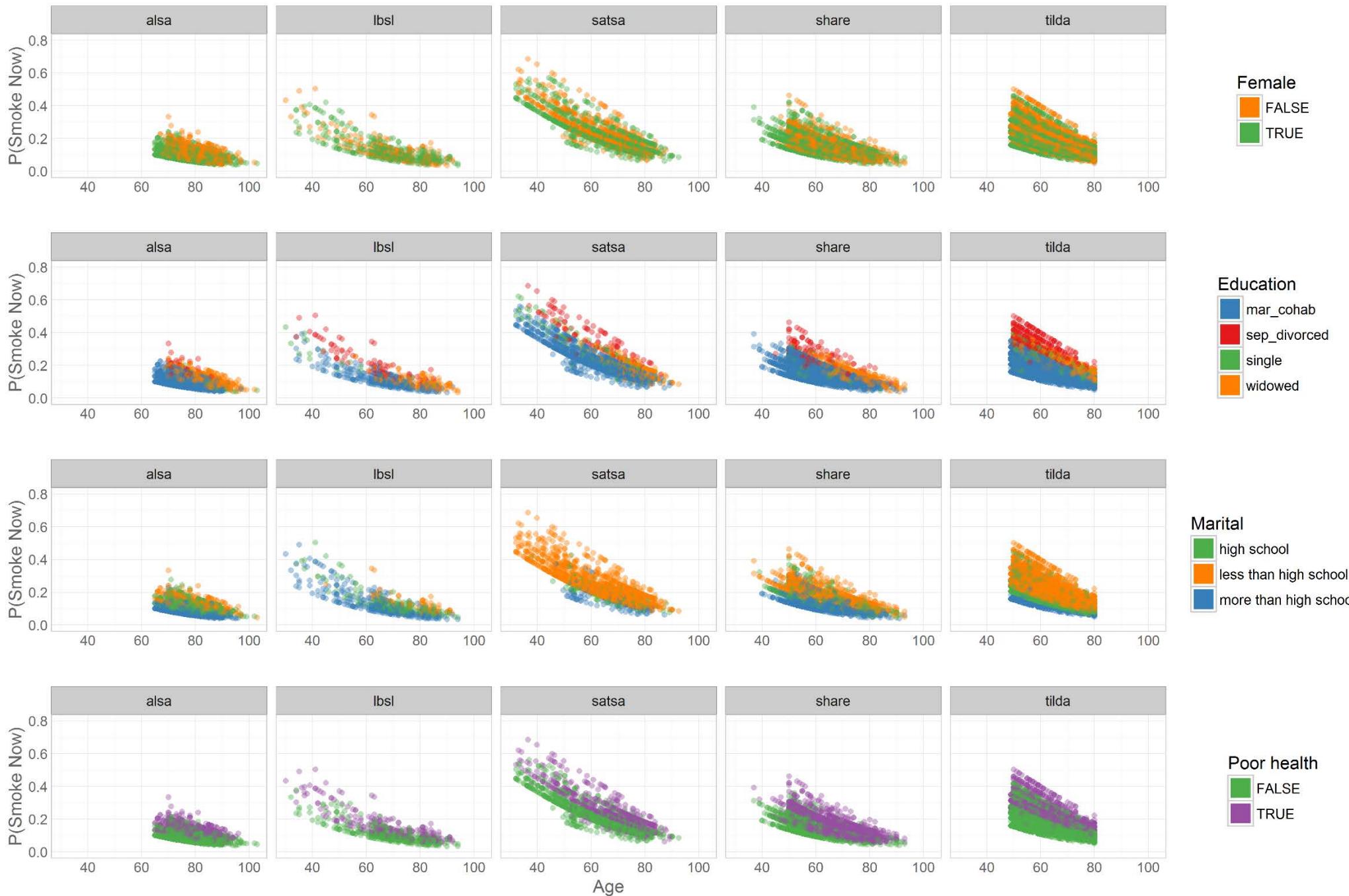
Odds || Prob



Odds || Prob

Study = factor

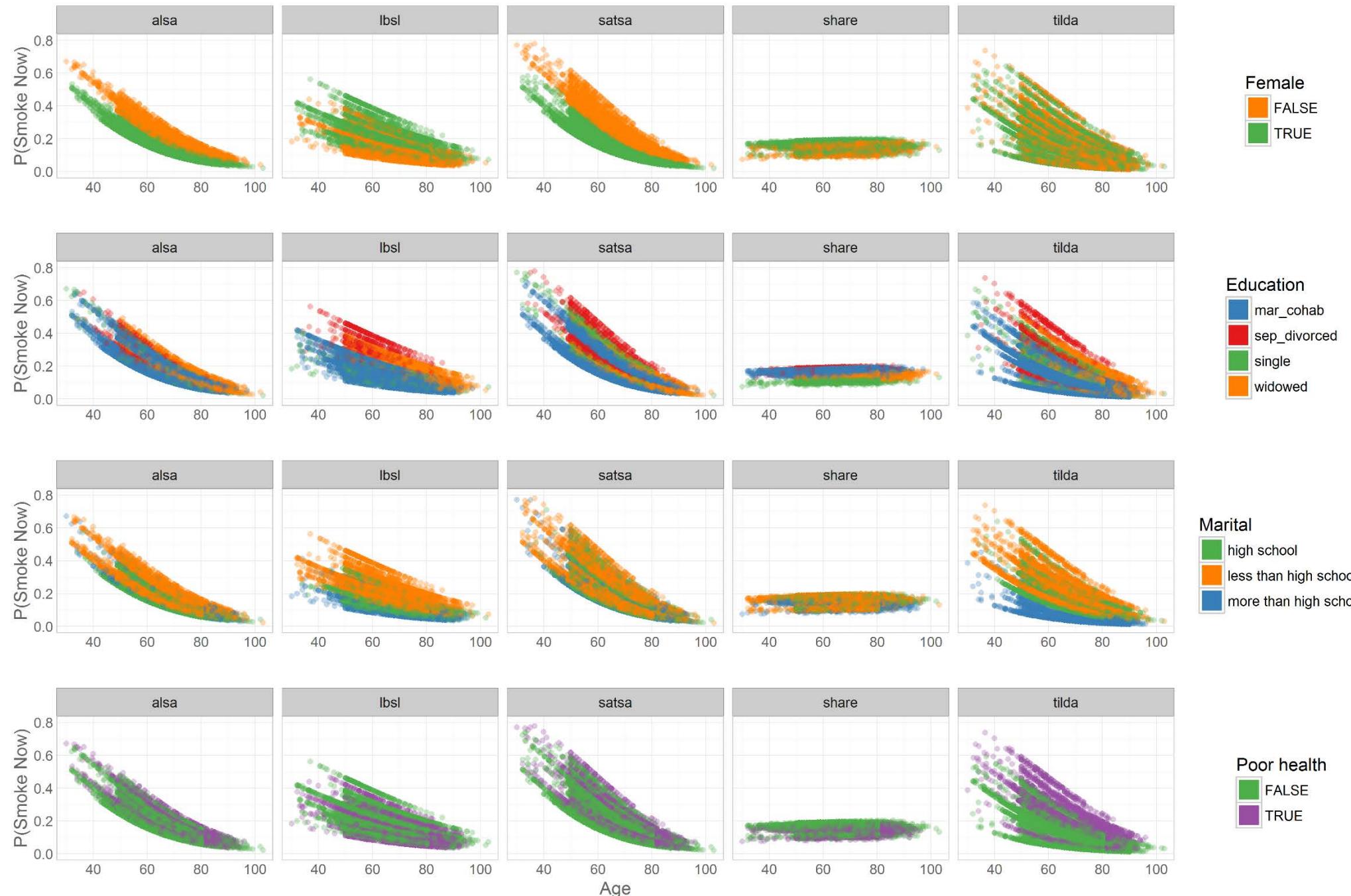
$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



Odds || Prob

Study = cluster

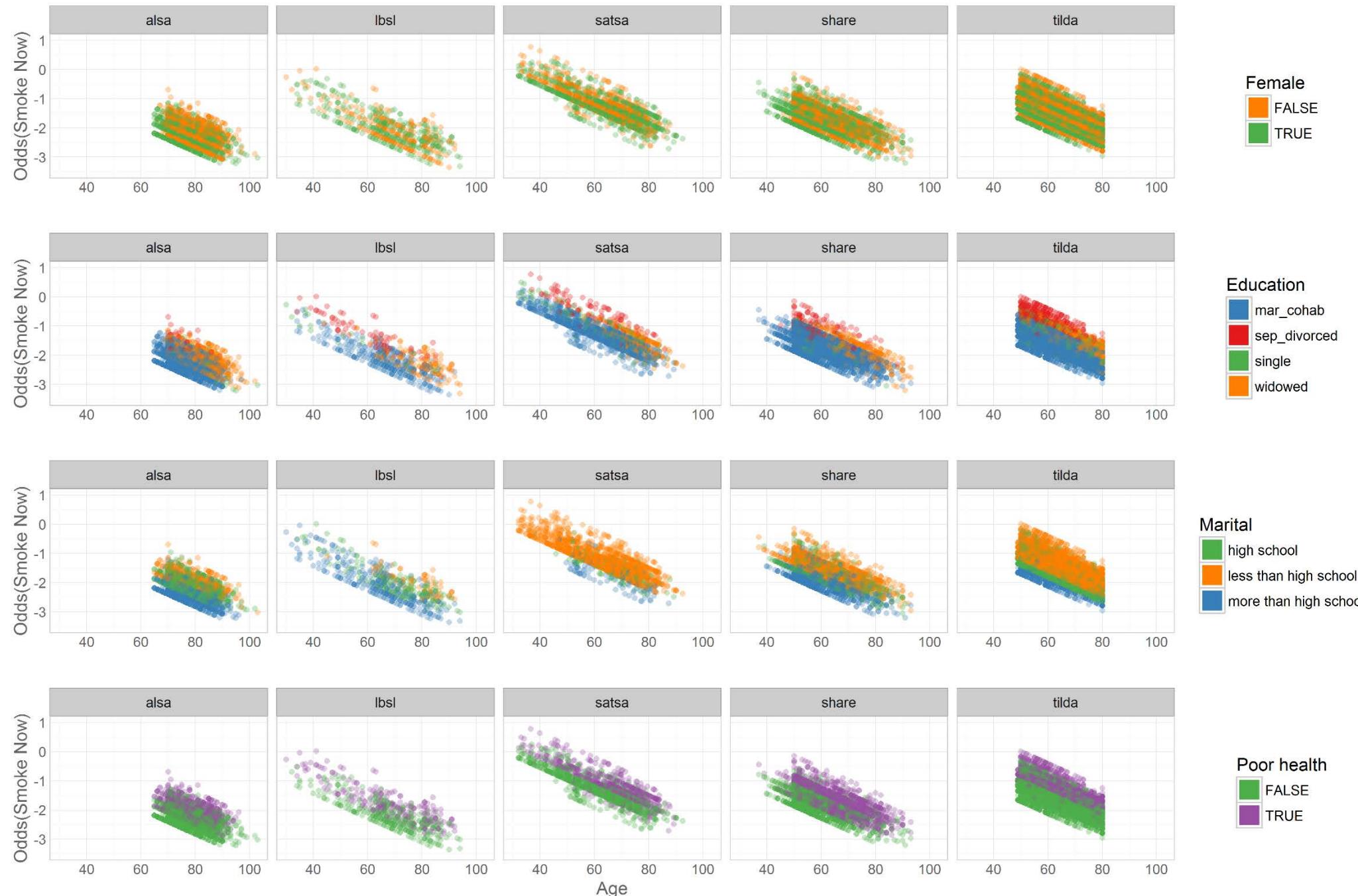
$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



Odds || Prob

Study = factor

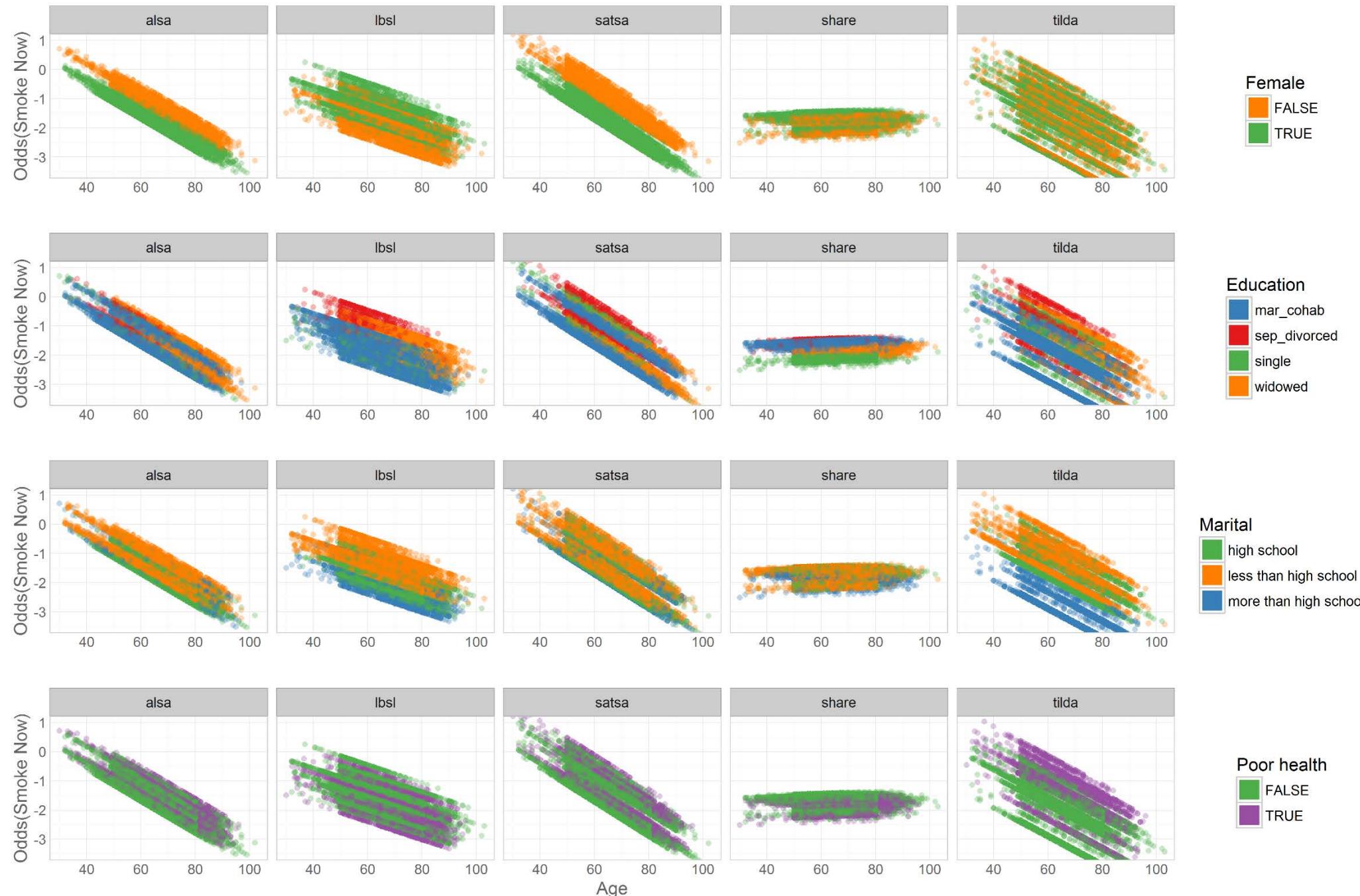
$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



Odds || Prob

Study = cluster

$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



Odds | Prob

Study = cluster

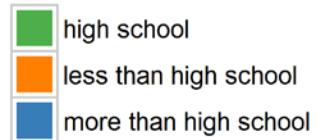
Education



Female



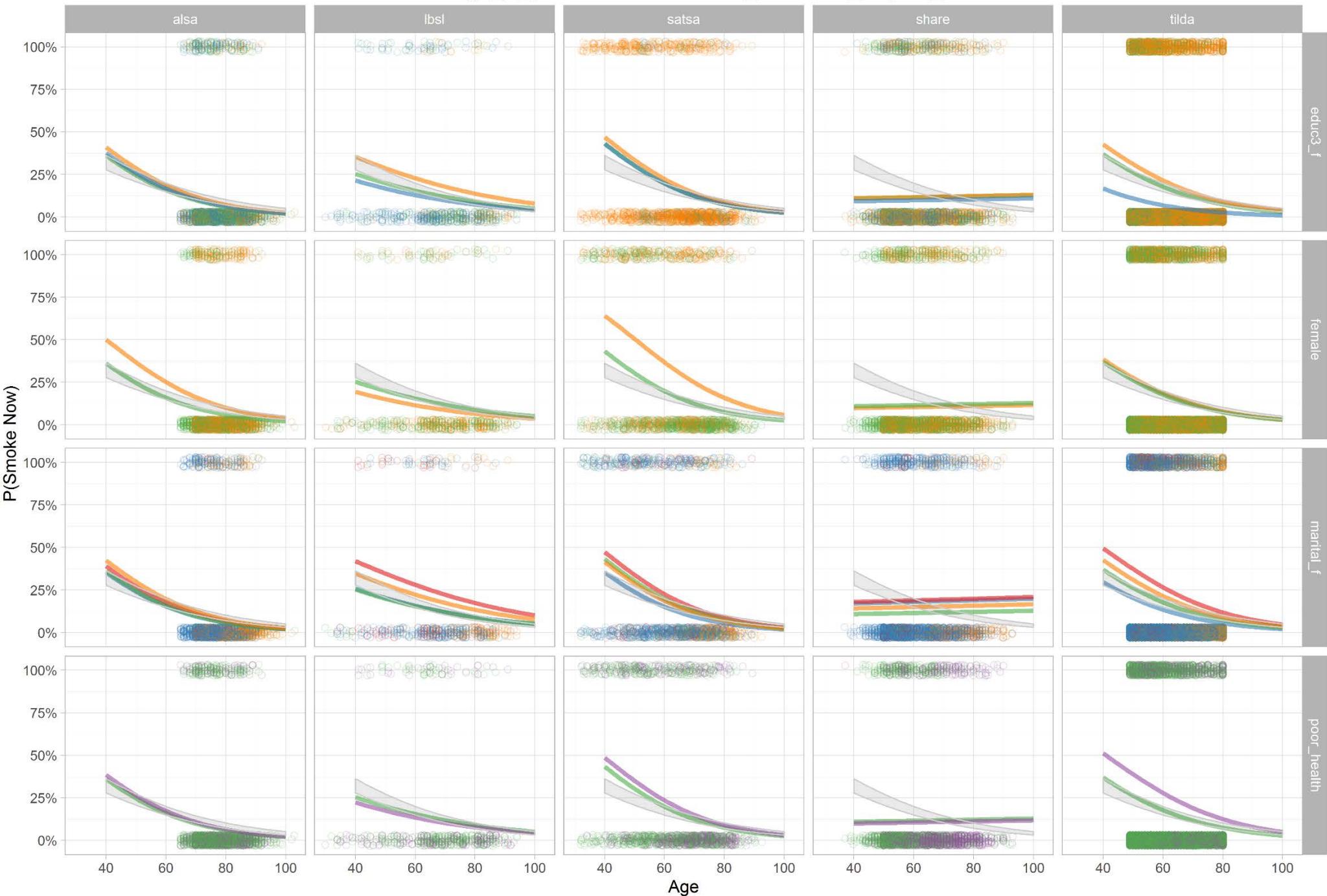
Marital



Poor health



$dv \sim -1 + \text{age_in_years} + \text{female} + \text{educ3_f} + \text{marital_f} + \text{poor_health}$



Odds || Prob

Study = cluster

Education

- █ mar_cohab
- █ sep_divorced
- █ single
- █ widowed

Female

- █ FALSE
- █ TRUE

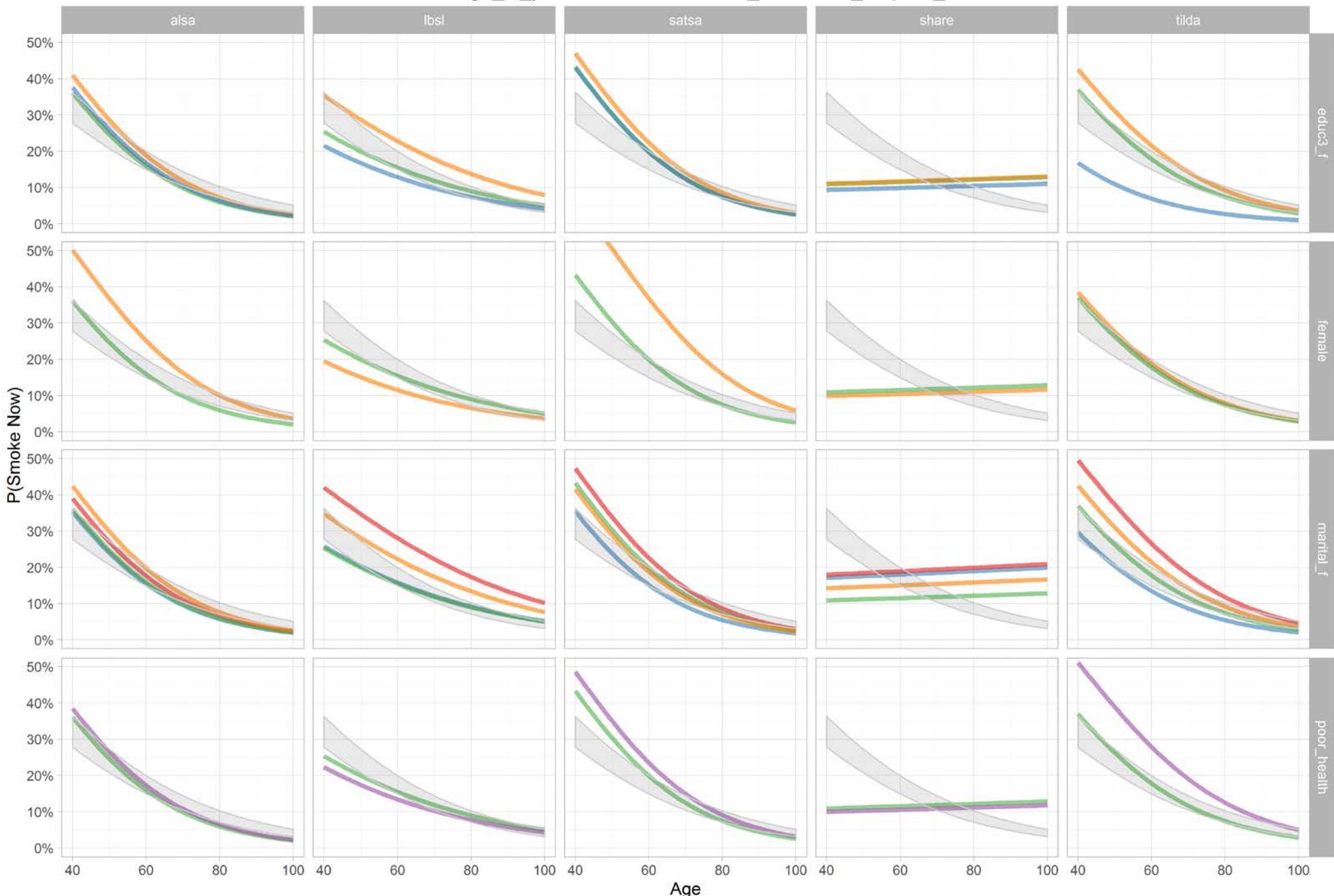
Marital

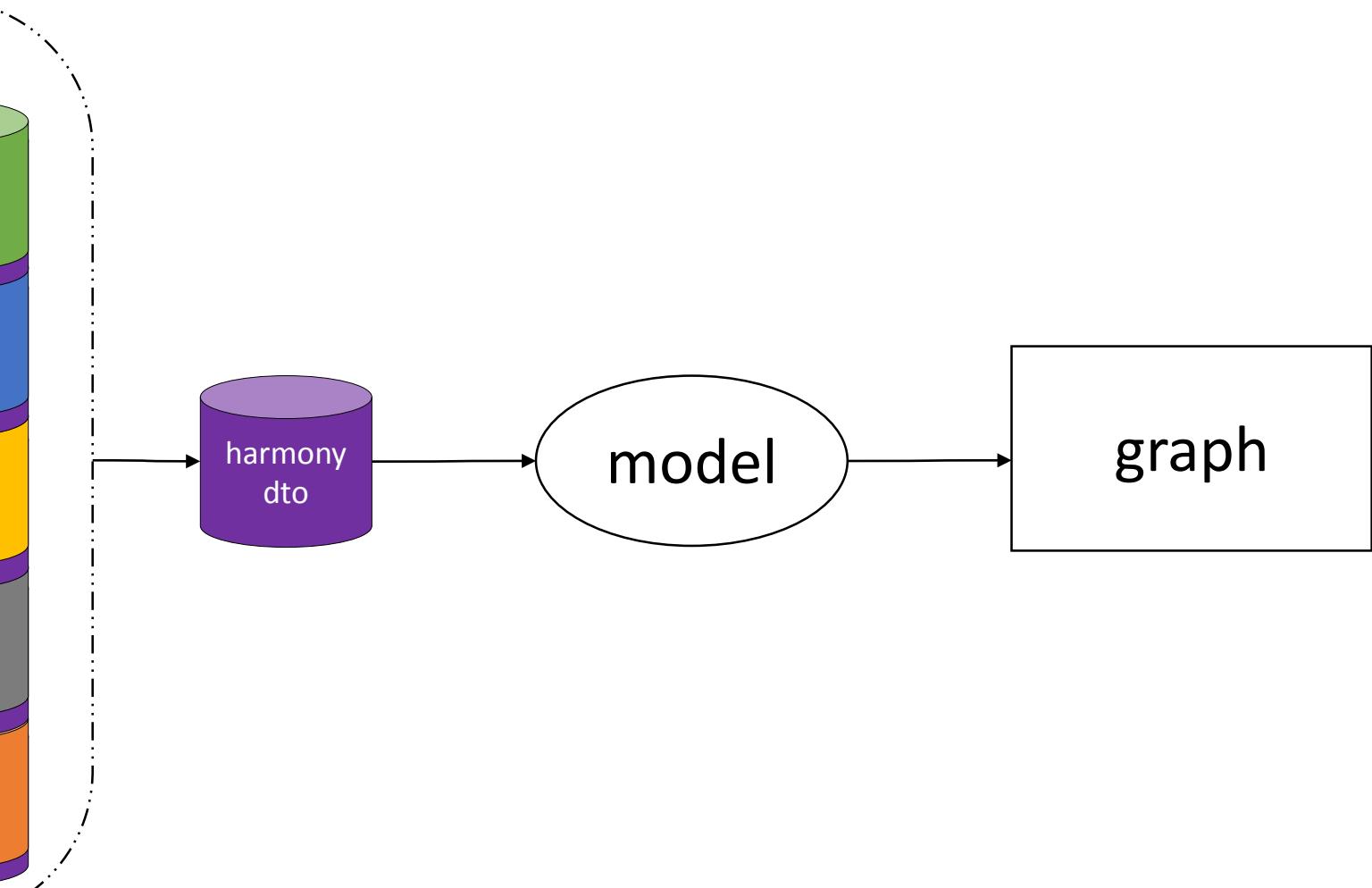
- █ high school
- █ less than high school
- █ more than high school

Poor health

- █ FALSE
- █ TRUE

$dv \sim -1 + \text{age_in_years} + \text{female} + \text{educ3_f} + \text{marital_f} + \text{poor_health}$



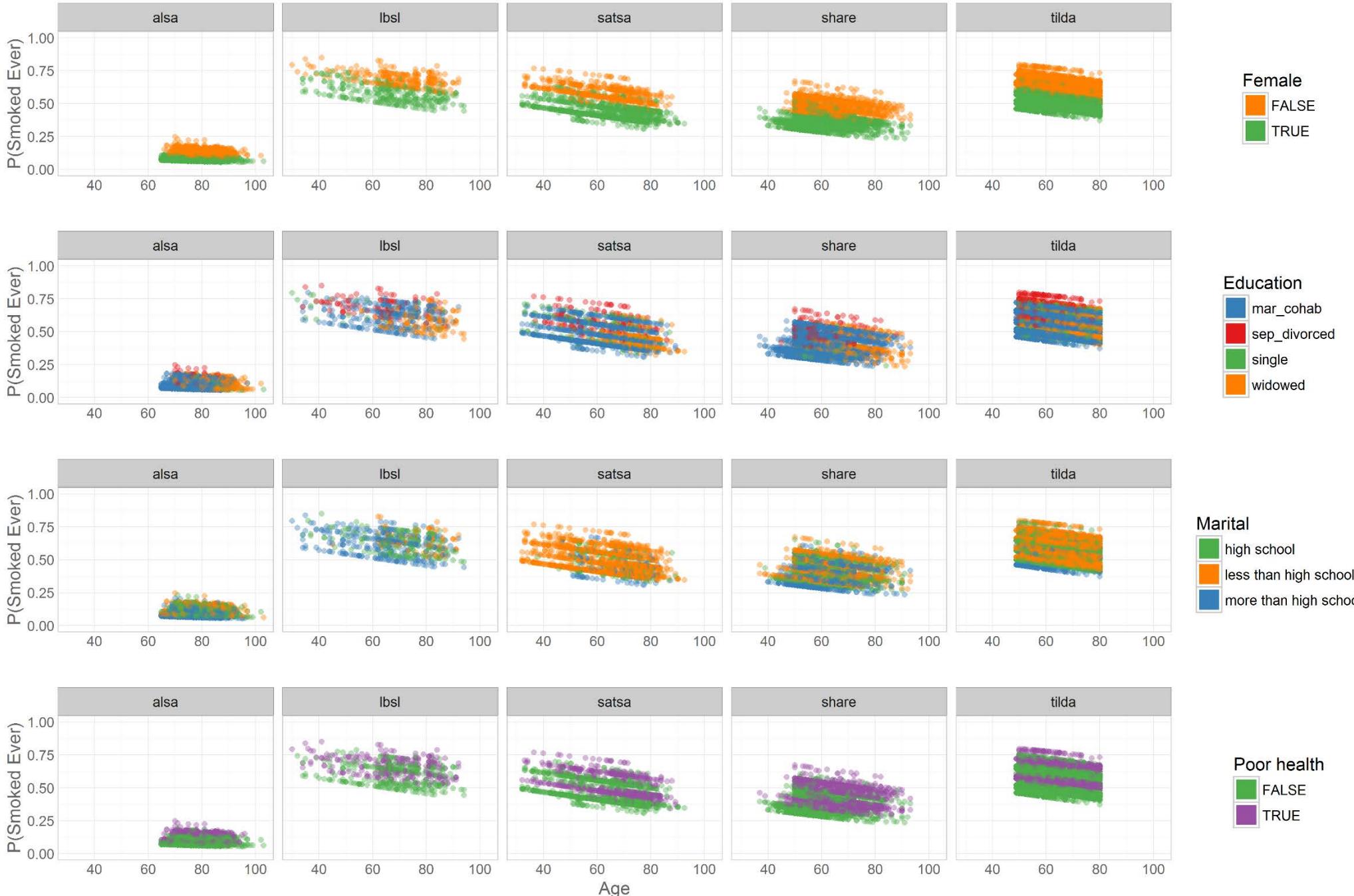


smoked_ever

Odds | Prob

Study = factor

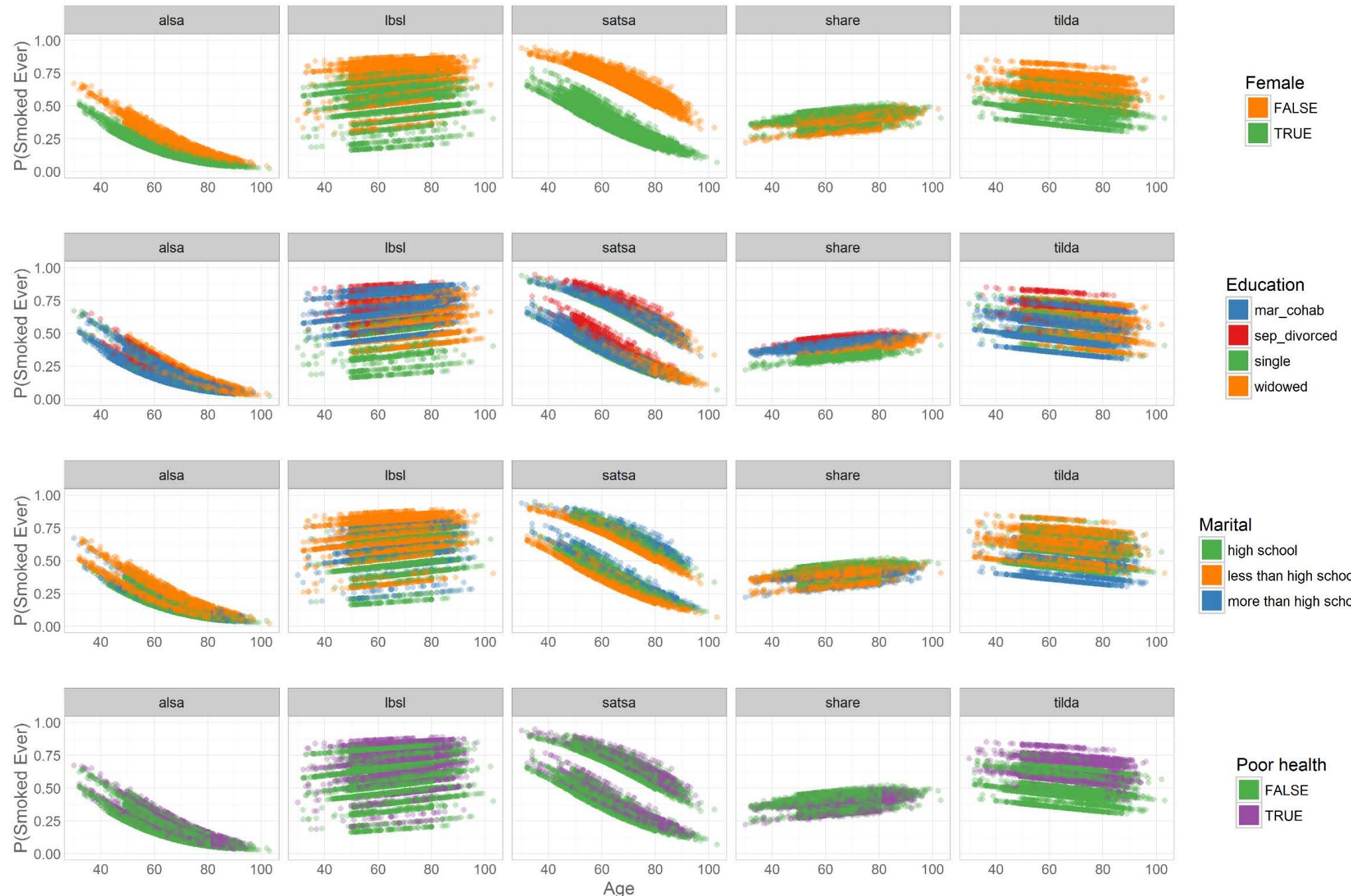
$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



Odds || Prob

Study = cluster

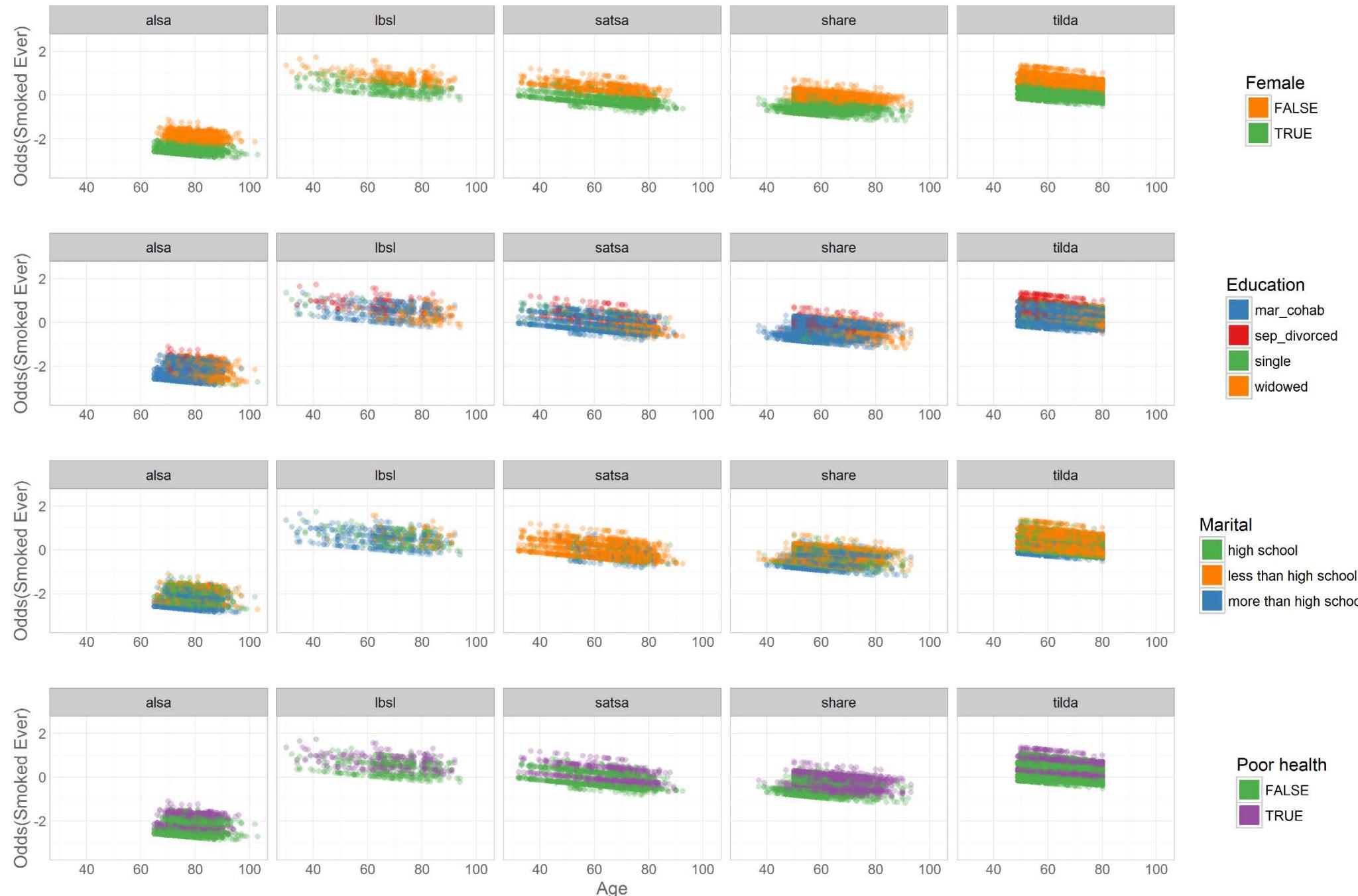
$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



Odds | Prob

Study = factor

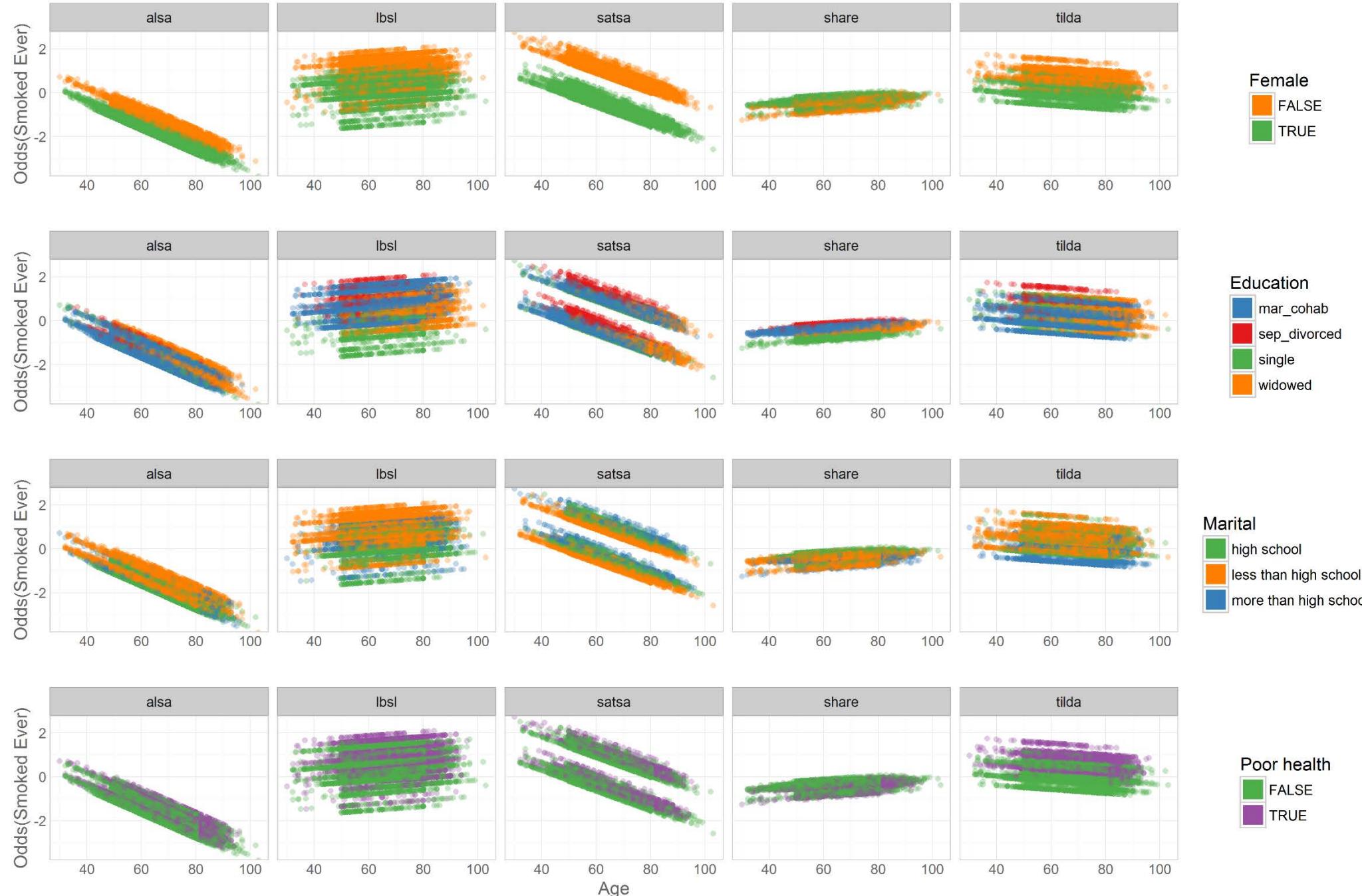
$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



Odds | Prob

Study = cluster

$dv \sim -1 + study_name + age_in_years + female + marital_f + educ3_f + poor_health$



Odds | Prob

Study = cluster

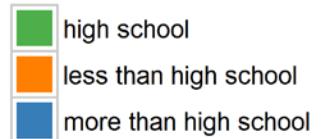
Education



Female



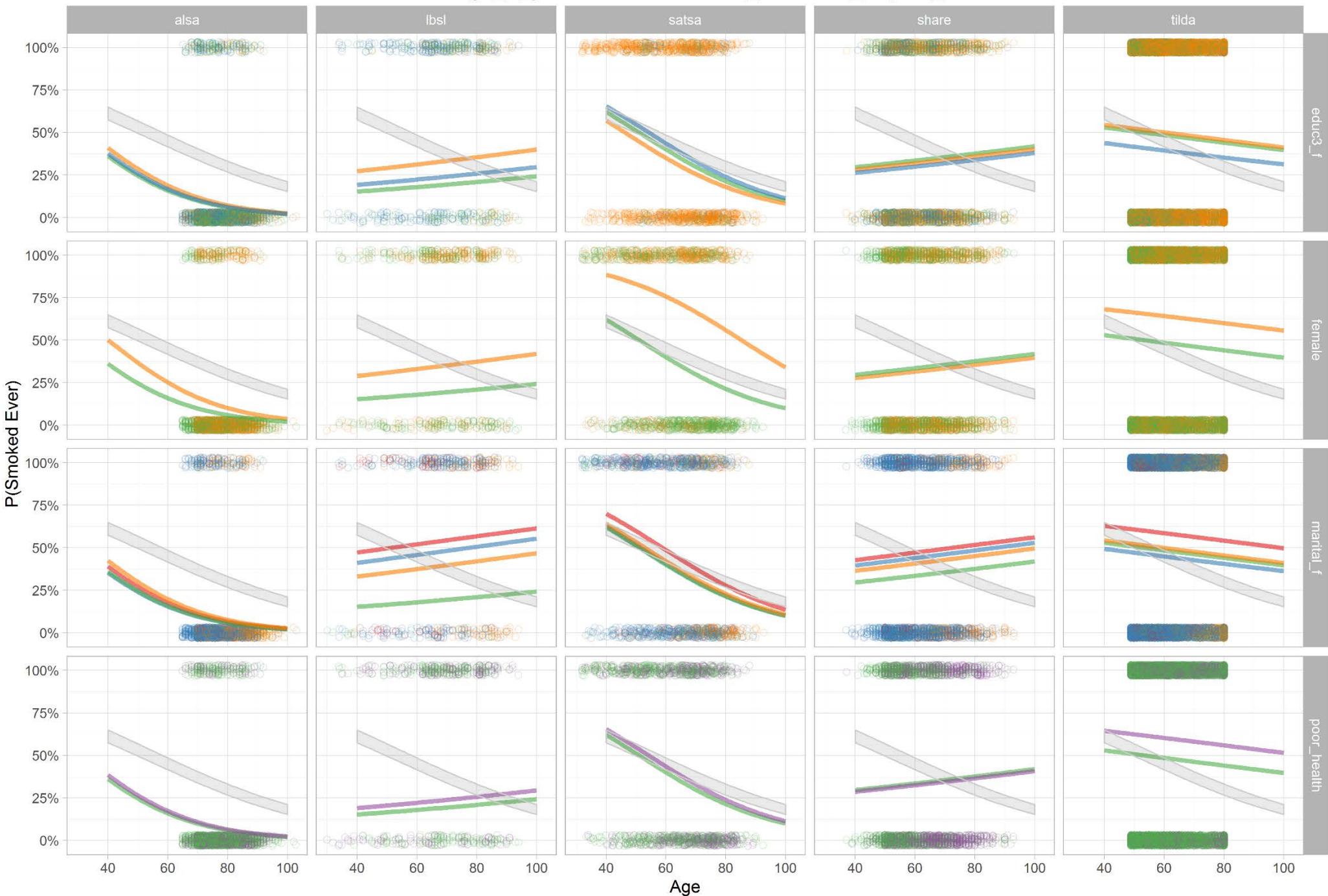
Marital



Poor health



$dv \sim -1 + \text{age_in_years} + \text{female} + \text{educ3_f} + \text{marital_f} + \text{poor_health}$



Odds | Prob

Study = cluster

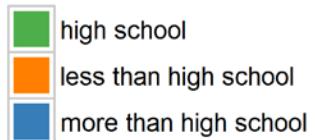
Education



Female



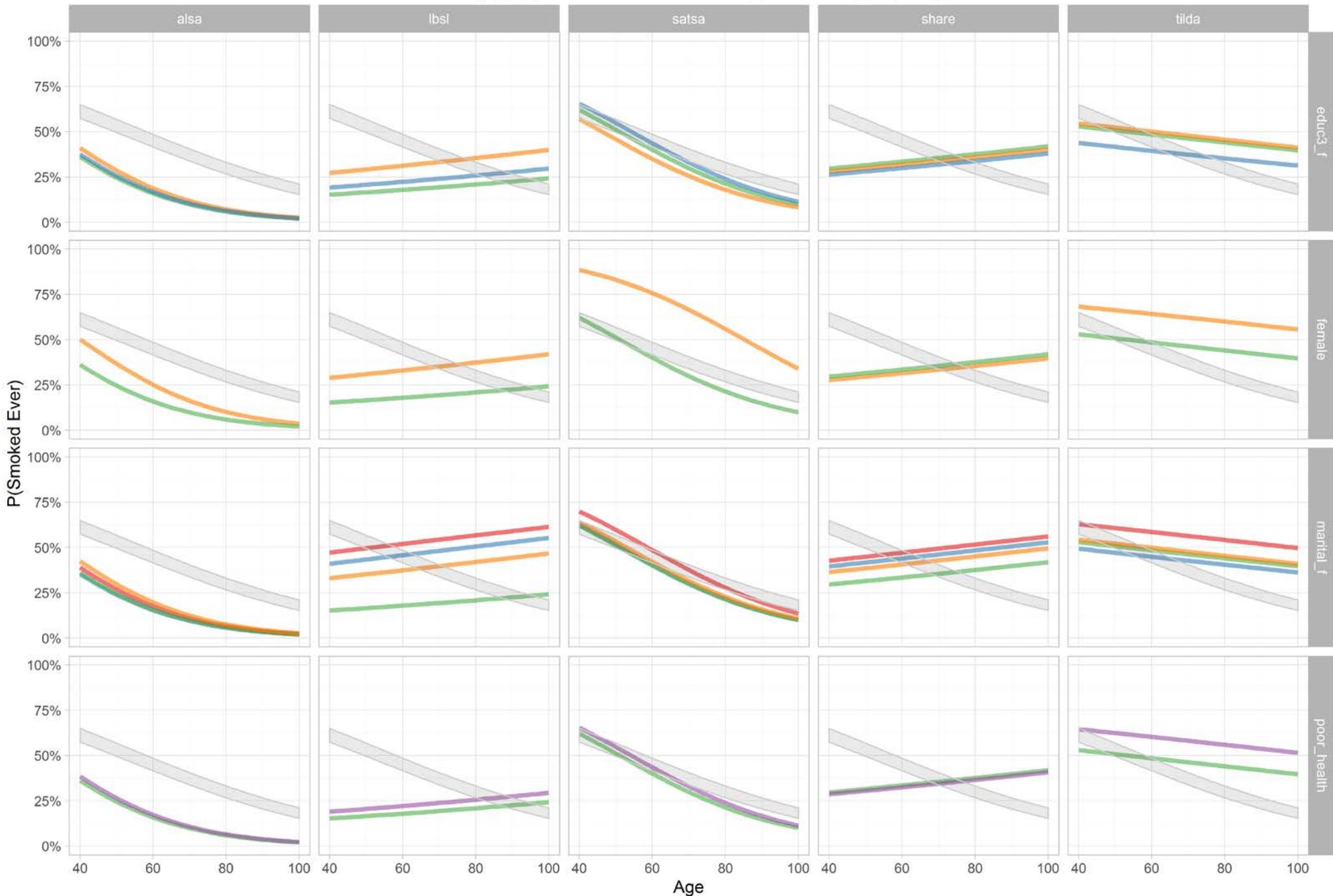
Marital



Poor health



$dv \sim -1 + \text{age_in_years} + \text{female} + \text{educ3_f} + \text{marital_f} + \text{poor_health}$



5 voices, 10 stories:

Groningen Harmonization Exercise

IALSA team

- Andrey Koval, University of Victoria
- Andrea Piccinin, University of Victoria
- Scott Hofer, University of Victoria
- Graciela Muniz, University College London

Special thanks

- William Beasley, University of Oklahoma