# P8108 Survival Analysis Presentation (Title TBD)

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#### Presentation Outline

- ► Background / Research question of interest
- Exploratory Analysis
- Methods
  - Cox Proportional Hazard with Elastic Net
  - Survival Random Forest
  - Conformalized Analysis
- Results
- Discussion

### Background

- ▶ We analyzed the Rotterdam data set from the survival package in R. This data includes 2982 breast cancer patients from the Rotterdam tumor bank.
- Notable measurements include age, menopausal status, tumor size, number of effected lymph nodes, and other baseline variables.
- Interventions were hormone treatment and chemotherapy.
- Subjects were followed until death or loss to follow up with occurrences of remission and death being recorded.

year	age	meno	size	grade	nodes	pgr	er	hormon	chemo	rtime	recur	dtime	death
1992	74	1	<=20	3	0	35	291	0	0	1799	0	1799	0
1984	79	1	20-50	3	0	36	611	0	0	2828	0	2828	0
1983	44	0	<=20	2	0	138	0	0	0	6012	0	6012	0
1985	70	1	20-50	3	0	0	12	0	0	2624	0	2624	0
1983	75	1	<=20	3	0	260	409	0	0	4915	0	4915	0

# **Exploratory Analysis**

Example: You can add arrows ">-"

# **Exploratory Analysis**

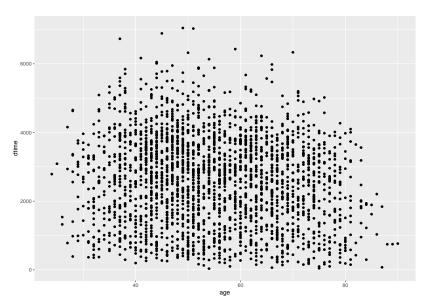
- Example: You can add arrows ">-"
- ► and make bullet points

# **Exploratory Analysis**

- Example: You can add arrows ">-"
- ► and make bullet points
- appear on subsequent slides

#### Methods

▶ We can use code chunks to illustrate plots



#### Methods

➤ Or you can also insert images like this (but the image dimensions have to be correct):

