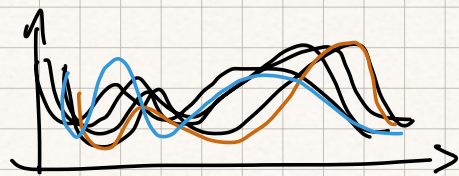


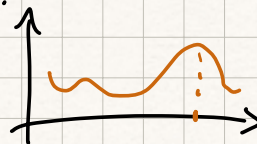
## Idea 1 - 2<sup>nd</sup> derivative



Np: → Nord (or High-level instruction districts)

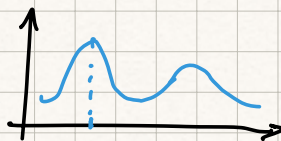
2<sup>nd</sup> der.

more  
like



→ Sud (or Low-level instruction districts)

2<sup>nd</sup>  
der  
more  
like



i.e. We would like to verify if the instruction level produces sort of a change in the behaviour of families w.r.t the urgency of having a child.

More specific :

→ In country with a high level instruction we expect to observe an "acceleration" in having kids in a more advanced age, with a more pronounced shift due to the fact that a woman is "running out of time";

→ In country with a lower level we expect an early acceleration maybe less steep. If I'm not studying I may decide to have a family (and a child) earlier;

Possible statistics to make inference:

PRO

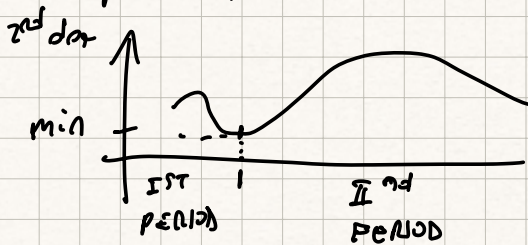
CONS

→ max : → can draw properly the peak

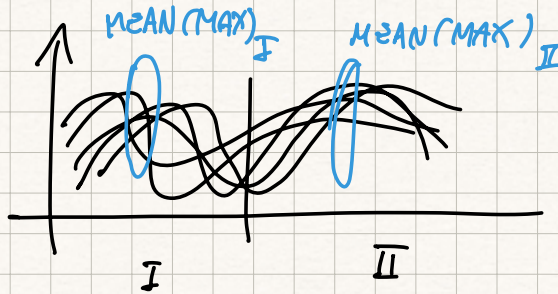
→ we are not properly intended to the peak but more on the tendency of 1st-2nd part

→ DIFF (MED (MAX)) :

1) divide in two period  
the time, in the min  
possibly :



2) Compute MED (MAX) or MEAN (MAX)  
of the two period:



3) Compute the DIFFERENCE

Reference FDA of tongue  
Pini Specific Venturi Vetti profile