The population is aging ...

Population shares 1996 to 2016



Year

The aging population will drive down aggregate participation rates. If we hold within-age rates constant ...



Our recent work suggests even more downward pressure from demographics



Model-based trend is from the model in FEDS #2007-9, "A Cohort-Based Model of Labor Force Participation," by Bruce Fallick and Jonathan Pingle.

What are the implications of aging for other dimensions of the macro labor market?

- Unemployment Rate
- Worker Flows
- UI Claims
- Hourly Earnings
- Accounting
 - Changes in age distribution
 - Holding constant within-age outcomes

The differences in unemployment rates across age are concentrated at younger ages.



Therefore, aging affected the unemployment rate most in an earlier period when the baby boom was moving through and out of these younger ages.



Changes in age-specific LFPRs have made the age distribution of the labor force change more than the age distribution of the population



So the aging of the labor force has had a somewhat larger effect on the unemployment rate than has the aging of the population *per se*.



How has aging affected worker flows across labor market states?

The accounting effect of aging on the aggregate EU hazard is small. (Relative to 1996)



Year



But taking into account the lower levels of employment, the monthly flow will be reduced substantially.

An increasing proportion of flows into and out of employment will involve NLF instead of unemployment.



The accounting effect of aging on the separation rate is small.



Year



Year

Aging has little influence on the expected durations in each state, especially on the duration of unemployment



How does aging affect wage rates?

Age Earnings Profile (2005)







Variance

$$Var = \sum_{a} s_{a} [(mean_{a} - grandmean)^{2} + var_{a}]$$
$$= \sum_{a} s_{a} [(mean_{a} - \sum_{a} s_{a}mean_{a})^{2} + var_{a}]$$
$$= \sum_{a} s_{a} (mean_{a} - \sum_{a} s_{a}mean_{a})^{2} + \sum_{a} s_{a} var_{a}$$

For the most part, the within-group variances rise with age.



The direct effect of aging on wage dispersion is modest.



Reflecting offsetting components.



Period