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Gender differences in episodic memory and gender role attitudes in Europe

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Cognitive Health in Aging Society

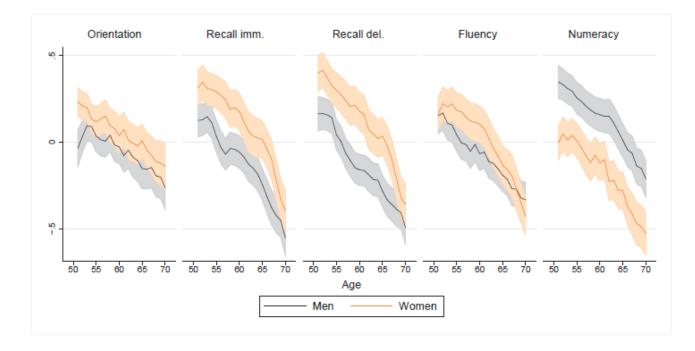
- **Context-related inequalities** in the association of labour market participation with cognition
- **Time-related heterogeneities** in the association of labour market participation with cognition
- Role of cognitive health promoting policies







Cognitive ageing by gender



Source: Mazzonna & Peracchi (2009)





Social-cognitive theory of gender development

- Integrates psychological and socio-structural determinants
- Gender conceptions and roles are the product of a broad network of social influences operating interdependently in a variety of societal subsystems
- Human differentiation on the basis of gender is a fundamental phenomenon that affects virtually every aspect of people's daily

(Bussey & Bandura 1999)

→ Cognitive ageing needs to be studied with contextual factors

Do gender role attitudes affect old-age cognition?





Gendered cognitive ageing as a function of gender equality?

- Less gender-restricted educational opportunities are associated with increased gender differences
 - Favouring women in some cognitive functions and decreasing/eliminating gender differences in other cognitive abilities (Weber et al. 2014)
- Older women perform relatively better in countries characterised by more equal gender-role attitudes (Bonsang et al. 2017)
 - $\,\circ\,$ Robust to cohort differences and reverse causality
 - Effect partially mediated by education and labour-force participation





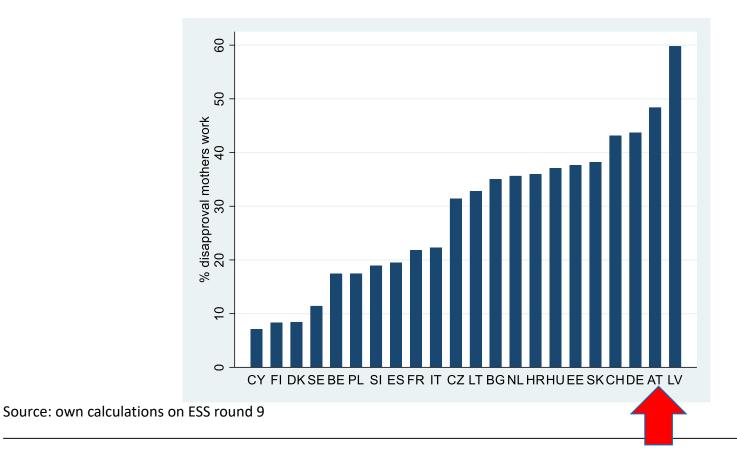
Data & method

- European Social Survey (ESS) round 9, 2018-2020
 - Disapproval of full-time employment if child <3yrs (separate for men and women)
- European Value Survey (EVS), 2017-2022
 - Agreement to "if jobs are scarce, priority to men"
- Survey of Health, Ageing and Retirement in Europe (SHARE) wave 8, 2019-2020
 - 46,733 participants aged 50+ in 22 European countries
 - Immediate and delayed recall (memory)
 - Fluency
- Multilevel linear models with random intercept





Results: % (Strong) disapproval of mothers working fulltime when child <3







Results: Memory, women

	1 (attitudes 50+)	2 (attitudes 50+)	1 (attitudes all)	2 (attitudes all)
Intercept	8.88 (0.22) ***	8.93 (0.22) ***	8.89 (0.22) ***	8.93 (0.22) ***
Age	-0.07 (0) ***	-0.07 (0) ***	-0.07 (0) ***	-0.07 (0) ***
Education (primary)				
secondary	0.74 (0.03) ***	0.74 (0.03) ***	0.74 (0.03) ***	0.74 (0.03) ***
tertiary	1.42 (0.03) ***	1.42 (0.03) ***	1.42 (0.03) ***	1.42 (0.03) ***
Female	0.34 (0.02) ***	0.26 (0.04) ***	0.34 (0.02) ***	0.27 (0.04) ***
Disapproval	0.45 (0.59)	0.3 (0.59)	0.47 (0.64)	0.33 (0.65)
Disapproval #				{ /
Female		0.26 (0.12) *		0.24 (0.13) +
				V C

Source: own calculations on ESS 9 and SHARE wave 8; N = 38,336; Significance: + p < 0.1; *p < 0.05; ** p < 0.01; *** p < 0.001





Results: Memory, women

	1 (attitudes 50+)	2 (attitudes 50+)	1 (attitudes all)	2 (attitudes all)
Intercept	9.51 (0.16) ***	9.42 (0.16) ***	9.49 (0.15) ***	9.40 (0.15) ***
Age	-0.07 (0) ***	-0.07 (0) ***	-0.07 (0) ***	-0.07 (0) ***
Education (primary)				
secundary	0.67 (0.02) ***	0.66 (0.02) ***	0.67 (0.02) ***	0.66 (0.02) ***
tertiary	1.32 (0.03) ***	1.31 (0.03) ***	1.32 (0.03) ***	1.31(0.03) ***
Female	0.30 (0.02) ***	0.53 (0.03) ***	0.30 (0.02) ***	0.51 (0.03) ***
MenPriority	-1.68 (0.53) **	-1.04 (0.54)	-1.87 (0.60) **	-1.13 (0.61)
MenPriority # Female		-1.15 (0.11) ***		-1.30 (0.13) ***

Source: own calculations on EVS and SHARE wave 8; N = 40,596; Significance: + p < 0.1; *p < 0.05; ** p < 0.01; *** p < 0.001





(Preliminary) conclusion / Next steps

- No or opposite-to-expected effects of gender roles on cognition
 - Similar results for immediate recall, delayed recall, and fluency
 - Similar results constructing the gender roles indicator differently
- Different results when using ESS item vs EVS item(s)
 - Replication on "when jobs are scarce, men should have priority"
 - Robustness check on "a pre-school child suffers if mother works"
- Role of (differences in) policies
 - Child care provision
 - Urban/rural

Thank you