The child penalty in a central bank: the case of the Bank of Italy

Tiziana Abete, Claudio Margarita, Clair. L. Moscatelli Sabrina Quaresima, Alessio Scerbo, and Eliana Viviano¹

Bank of Italy

Diversity, Equity and Inclusion in Economics, Finance, and Central Banking Madrid, March 7, 2024



Tiziana Abete, Claudio Margarita, Clair. L. Moscatelli The child penalty in a central bank: the case of the Ba

Motivation

- Motherhood is the main cause of female-male gaps in the labour market, (Becker (1985); Becker (1991); Bertrand (2020); Olivetti and Petrongolo (2016)).
- The so-called *child penalty* is a global phenomenon (Kleven et al., 2023).
- What about single institutions? (Healy and Heissel, 2023)
- What the implications for HR?

イロト イヨト イヨト イヨト

- Bank of Italy personnel data
- We estimate the child penalty on average and by cohort (mothers vs fathers)
- We outline the role of the main determinants (hours, variable pay components, promotion gap; Hospido et al. (2022))
- We check the impact of some policies (childcare, father parental leaves, rules for promotion) on the reduction of the child penalty.

イロト イヨト イヨト イヨト

Preview of the main results

- Significant penalty in hours worked: -10% after 15 years.
- Significant penalty in earnings: six years after the birth of the first child and increases progressively, because of (i) hours worked; (ii) faster career progression of fathers.
- Two different cohorts: (1) hired btw 1996 and 2000 (2) and those hired from 2006 to 2010. The second group benefited the most from some significant interventions in family-friendly policies:
 - New childcare facilities: increase hours worked by mothers;
 - Increase in fathers' leave provision: increase hours worked by mothers:
 - New rules for promotions: no formal (internal) exam, but a commission. Increased probability of a mother to be promoted after the reform.

・ロ・ ・ 四・ ・ ヨ・ ・ ヨ・ ・

- Panel of around 40,000 observations from 1996 to 2019 (2021). Exclude those who leave the Bank;
- Hours worked per year (in FTE), annual earnings (by type: base wage (normalized), extra pay components (normalized), compensation for work outside the BdI/business trips); hierarchical level; date of hiring; parental leave (paid, unpaid)
- Number of children; birth date; whether the person has a partner in BdI and family code.
- ALL ANONYMIZED AND WITH RESTRICTED ACCESS!

《曰》《聞》《臣》《臣》:

Descriptive: The impact of children. Gender wage gap for workers with and without children (measured at age 45)

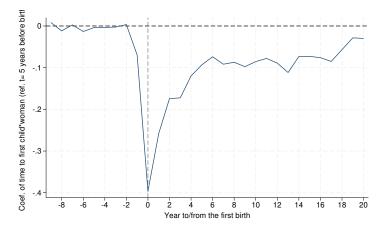
.1 --.1 -.2--.3 -.4 -.5 1995 2000 2005 2010 2015 2020 vear vithout childrer with children

Women - men without and with children

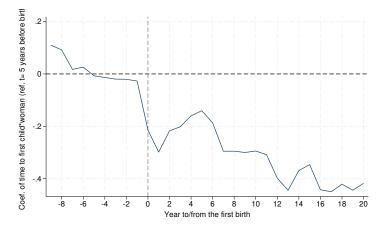
Note: Bank of Italy; administrative data. Normalized income, corrected for tenure.

ヘロト 人間 と 人 ヨ と 人 ヨ と

The child penalty: hours. Gap of women with respect to men by time from the birth of the first child

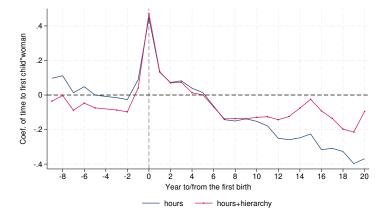


The child penalty: earnings. Gap of women with respect to men by time from the birth of the first child

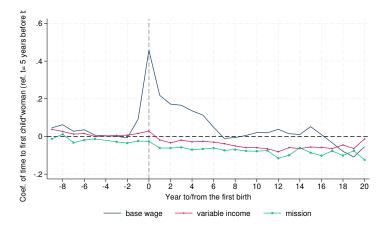


< 17 →

The child penalty: determinants of gaps in total earnings. Controls: hours and hierarchy

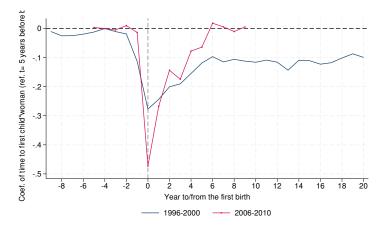


The child penalty: determinants of gaps in total earnings. By type of earnings



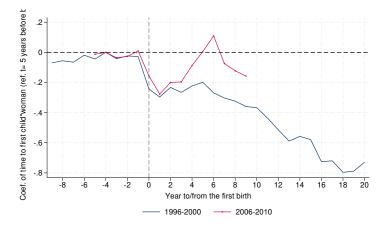
< (T) >

The child penalty: difference in hours worked by cohort



< (T) >

The child penalty: difference in earnings by cohort



< (T) >

The impact of new childcare in Rome centre

In 2009 a new opening of childcare services in Rome centre. Bdi has several buildings in the centre. We compare use and hours work of parents close to the new childcare service before/after the opening.

	(1)	(2)
	childcare	hours worked
	use	(3 years)
woman	0.266**	-0.497
	(0.075)	(0.118)
work in city c. *nursery* post 2008	0.162**	0.183
	(0.081)	(0.124)
woman*work in city c*nursery*post 2008	0.069	0.665**
	(0.130)	(0.259)
Ν	1,083	1,083

Table: Nursery use and hours worked.

Tiziana Abete. Claudio Margarita. Clair. L. Moscatelli The child penalty in a central bank: the case of the B:

< ロ > < 同 > < 回 > < 回 >

Mothers' hours worked and fathers' leave. Couples working at the Bank of Italy.

Change in parental leave after 2012-2015: enlargement of fathers' parental leave, especially after age 6 of the child (unpaid).

	(1)	(2)	(3)
Father leave (total)	0.260 (0.302)		
Father leave (paid)	(0.002)	-0.264	
		(1.170)	1 0 1 - 4 4 4 4
Father leave (unpaid)			1.045***
			(0.288)
Fixed-effects	yes	yes	yes
Ν	203	203	203

First child born after 2010.

< □ > < 同 > < 三 > < 三 >

Probability of promotion in 7 years from hiring.

Women and men hired before/after a reform in promotion rules. After the reform: no more exams but decision of a Committee.

	(1)	(2)	(3)	(4)
womam	-0.108	0.065	0.057	0.178
	(0.100)	(0.105)	(0.105)	(0.124)
woman* post reform	0.129	0.152	0.161	-0.012
	(0.169)	(0.177)	(0.177)	(0.201)
sum of hours in 7 years	,	0.198***	0.199***	0.196***
-		(0.017)	(0.017)	(0.017)
kids \leq 3 y.o.		()	0.084	0.161
_ ,			(0.089)	(0.113)
woman*kids \leq 3 y.o.				-0.376*
_ ,				(0.214)
woman*kids \leq 3 y.o.*post reform				0.539*
				(0.304)
N	1,236	1,236	1,236	1,236 v v

THANK YOU VERY MUCH

Tiziana Abete, Claudio Margarita, Clair. L. Moscatelli The child penalty in a central bank: the case of the Ba

э.

ヘロン 人間 とくほ とくほ とう

References

- Becker, G. (1985). Human capital, effort, and the sexual division of labor. *Journal* of Labor Economics 3(1), S33–S58.
- Becker, G. (1991). A treatise on the family. Harvard University Press.
- Bertrand, M. (2020). Gender in the Twenty-First Century. AEA Papers and Proceedings 110, 1–24.
- Healy, O. and J. Heissel (2023). Baby Bumps in the Road: The Impact of Parenthood on Job Performance, Human Capital, and Career Advancement.
- Hospido, L., L. Laeven, and A. Lamo (2022). The gender promotion gap: Evidence from central banking. *The Review of Economics and Statistics* 5(103), 981–996.
- Kleven, H., C. Landais, and G. Leite-Mariante (2023). The child penalty atlas. Working Paper 31649, National Bureau of Economic Research.
- Olivetti, C. and B. Petrongolo (2016). The evolution of gender gaps in industrialized countries. *Annual Review of Economics* 8(1), 405–434.

3

・ロト ・四ト ・ヨト ・ヨト