

# Does Employment Protection Affect Unemployment?

## A Meta-analysis

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## Supplementary appendix

### “Does employment protection affect unemployment? A meta-analysis”

This appendix to the paper “Does employment protection affect unemployment? A meta-analysis” presents three additional aspects. First, we list all econometric studies that were included in the meta-analysis based on the criteria of inclusion discussed in section 3.1 of the paper. Second, we report additional figures concerning the distribution of the underlying data. Third, we present a table with detailed information on the composition of the data in the underlying 75 studies.

#### 1. Studies included in the meta-analysis

**Table A1: Peer-reviewed papers included in the meta-analysis (n=75)**

Addison and Grosso (1996)	Felbermayr et al. (2011)	Gatti et al. (2012)
Addison et al. (2000)	Feldmann (2003)	Gebel and Giesecke (2011)
Avdagic and Salardi (2013)	Feldmann (2006a)	Gebel and Giesecke (2016)
Avdagic (2015)	Feldmann (2006b)	Griffith et al. (2007)
Baccaro and Rei (2007)	Feldmann (2009a)	Heckman and Pages-Serra (2000)
Bassanini and Duval (2006)	Feldmann (2009b)	Heimberger et al. (2017)
Bassanini and Duval (2009)	Feldmann (2010)	Heimberger (2019)
Belke and Fehn (2002)	Feldmann (2011a)	Holt and Hendrickson (2017)
Belot and van Ours (2001)	Feldmann (2011b)	Kim and Kim (2017)
Belot and van Ours (2004)	Feldmann (2011c)	Lazear (1990)
Bernal-Verdugo et al. (2012)	Feldmann (2011d)	Lehmann and Muravyev (2012)
Bernal-Verdugo et al. (2013)	Feldmann (2011e)	Malul et al. (2011)
Bertola et al. (2007)	Feldmann (2012a)	Nickell (1997)
Bertola (2017)	Feldmann (2012b)	Nickell (1998)
Biagi and Lucifora (2008)	Feldmann (2013a)	Nickell et al. (2005)
Blanchard and Wolfers (2000)	Feldmann (2013b)	Noelke (2016)
Botero et al. (2004)	Feldmann (2013c)	Nymoen and Sparrman (2015)
Breen (2005)	Feldmann (2013d)	Oesch (2010)
Checchii and Garcia-Penalosa (2008)	Feldmann (2013e)	Sarkar (2013)
Daveri and Tabellini (2000)	Feldmann (2013f)	Scarpetta (1996)
Deakin et al. (2014)	Feldmann (2014)	Stockhammer and Klär (2011)
Di Tella and MacCulloch (2005)	Feldmann (2015)	Stockhammer et al. (2014)
Dromel et al. (2010)	Flaig and Rottmann (2013)	Sturn (2013)
Dutt et al. (2009)	Fialova and Schneider (2009)	Tomic (2018)
Elmeskov et al. (1998)	Fitoussi et al. (2000)	Vergeer and Kleinknecht (2012)

Notes: Studies published in peer-reviewed journals prior to March 2019 were included. Criteria of inclusion are described in the text.

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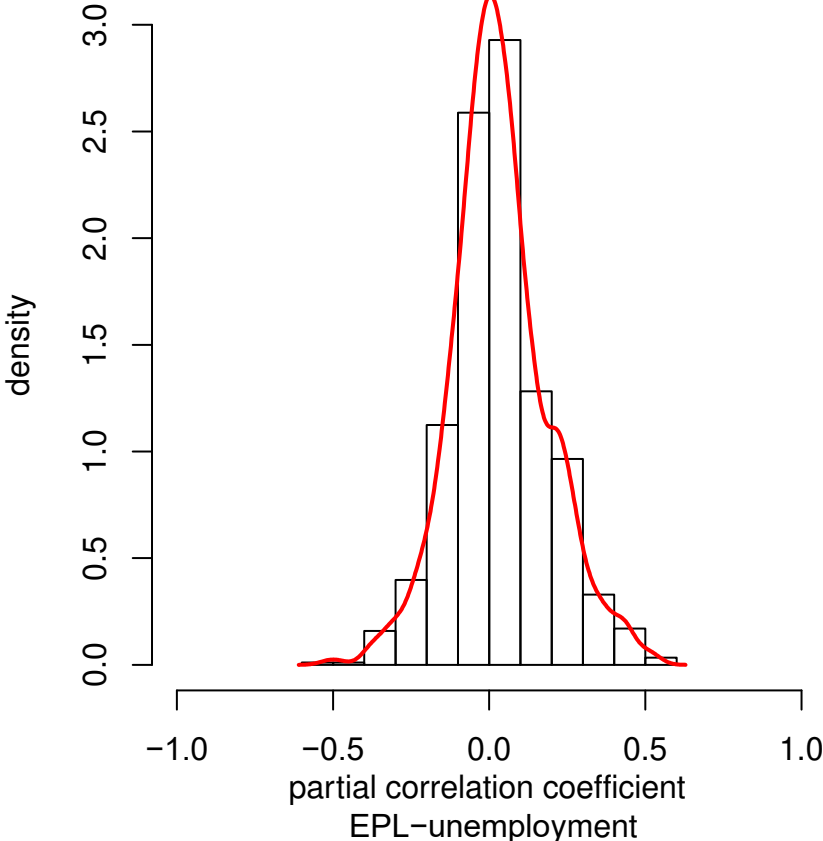
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**2. Meta-analysis: Additional figures concerning the distribution of the data**

This section of the appendix reports descriptive statistics regarding the meta-study data introduced in section 3 of the paper.

Figure A1 shows the distribution of EPL-unemployment partial correlations in our meta-analysis data set.

**Figure A1: Distribution of partial correlations**  
**Distribution of partial correlations:**  
**EPL and unemployment**  
**(n=881)**

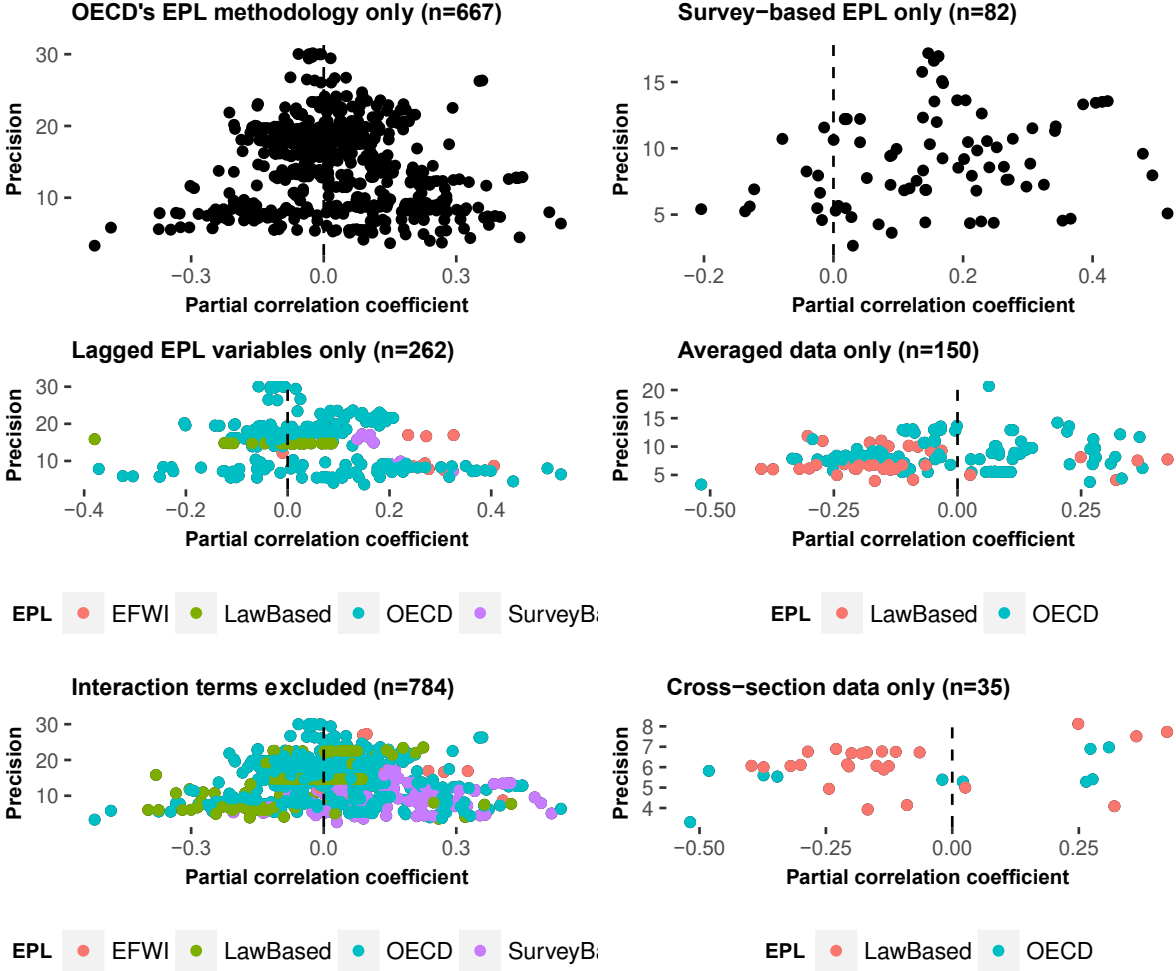


*Notes: The figure plots the distribution of partial correlation estimates (kernel density plot). The blue dotted curve represents a normal distribution.*



Figure A2 shows additional funnel plots based on sub-sets of the data.

**Figure A2: Funnel plots for sub-sets of the data**



Notes: The figure plots estimates of the partial correlations against the inverse of the corresponding standard error.

### 3. Composition of the data set

**Table A2: Additional information on the data in the 75 included studies (881 estimates; for detailed paper references, see the reference list in section 1 of this supplementary appendix)**

Paper	Country group	Time dimension	Estimator	Structure of the data	EPL variable	Number of coefficients	Mean partial correlation
Addison and Grosso (1996)	20 OECD	1956-1984	OLS	Panel data	LawBased	12	-0.006
Addison et al. (2000)	20 OECD	1956-1984	OLS, Random Effects	Panel data	LawBased	8	0.073
Avdagic and Salardi (2013)	26 (OECD and non-OECD)	1980-2006	OLS, FGLS	Panel data	OECDMethodology	18	0.024
Avdagic (2015)	31 (OECD and non-OECD)	1980-2009	OLS	Panel data	OECDMethodology	31	0.041
Baccaro and Rei (2007)	18 OECD	1960-1998	OLS, FGLS	Panel data	OECDMethodology	26	-0.017
Bassanini and Duval (2006)	20 OECD	1982-2003	OLS, IV 2SLS	Panel data	OECDMethodology	23	-0.024
Bassanini and Duval (2009)	20 OECD	1982-2003	OLS, FGLS, GMM	Panel data	OECDMethodology	10	-0.058
Belke and Fehn (2002)	20 OECD	1986-1999	FGLS	Panel data	OECDMethodology	6	0.178
Belot and van Ours (2001)	18 OECD	1960-1999	OLS	Panel data	LawBased	3	-0.120
Belot and van Ours (2004)	17 OECD	1960-2001	OLS	Panel data	LawBased	6	-0.159
Bernal-Verdugo et al. (2012)	97 OECD and non-OECD	1985-2008	OLS	Panel data	EFWI	9	0.056
Bernal-Verdugo et al. (2013)	97 OECD and non-OECD	1980-2008	OLS	Panel data	EFWI	7	0.105
Bertola et al. (2007)	17 OECD	1960-1996	OtherEstimator	Panel data	OECDMethodology	6	0.177

Bertola (2017)	20 OECD	1960-2014	OLS	Panel data	OECDMethodology	20	0.026
Biagi and Lucifora (2008)	10 OECD	1978-2002	OLS	Panel data	OECDMethodology	2	-0.033
Blanchard and Wolfers (2000)	20 OECD	1960-1996	OLS	Panel data	OECDMethodology	7	0.248
Botero et al. (2004)	65 OECD and non-OECD	1991-2000	OLS	Cross-section	LawBased	3	0.346
Breen (2005)	23 OECD	1995-1999	OLS	Panel data	OECDMethodology	1	0.222
Checchi and Garcia-Penalosa (2008)	16 OECD	1969-2004	OLS	Panel data	OECDMethodology	3	0.026
Daveri and Tabellini (2000)	15 OECD	1965-1995	OLS, IV 2SLS	Panel data	OECDMethodology	13	-0.176
Deakin et al. (2014)	6 OECD	1970-2010	OtherEstimator	Panel data	LawBased	36	-0.030
Di Tella and MacCulloch (2005)	21 OECD	1984-1990	Random Effects, OLS	Panel data	SurveyBased	21	0.139
Dromel et al. (2010)	20 OECD	1982-2003	Random Effects, IV 2SLS, GMM	Panel data	OECDMethodology	7	-0.110
Dutt et al. (2009)	55 OECD and non-OECD	1990-1999	OLS, IV 2SLS	Cross-section	LawBased	21	-0.194
Elmeskov et al. (1998)	19 OECD	1983-1995	FGLS	Panel data	OECDMethodology	9	0.140
Felbermayr et al. (2011)	20 OECD	1983-2003	OLS, FGLS, GMM	Panel / cross-section	OECDMethodology	9	-0.034
Feldmann (2003)	36 OECD and non-OECD	1997-2001	OLS	Panel data	SurveyBased	10	0.209
Feldmann (2006a)	19 OECD	1985-2002	Random Effects	Panel data	OECDMethodology	25	0.073
Feldmann (2006b)	19 OECD	1985-2002	Random Effects	Panel data	OECDMethodology	4	-0.019
Feldmann	73 OECD	2000-2003	FGLS	Panel data	EFWI	9	0.273

(2009a)	and non-OECD						
Feldmann (2009b)	19 OECD	1992-2002	OLS	Panel data	SurveyBased	4	0.177
Feldmann (2010)	20 OECD	1982-2003	OLS	Panel data	OECDMethodology	6	-0.017
Feldmann (2011a)	20 OECD	1982-2003	OLS, Random Effects	Panel data	OECDMethodology	32	-0.022
Feldmann (2011b)	17 OECD	1982-2003	OLS	Panel data	OECDMethodology	24	0.066
Feldmann (2011c)	20 OECD	1982-2003	IV 2SLS	Panel data	OECDMethodology	8	0.027
Feldmann (2011d)	17 OECD	1982-2003	OLS, Random Effects	Panel data	OECDMethodology	10	0.008
Feldmann (2011e)	19 OECD	1979-2005	IV 2SLS, Random Effects	Panel data	OECDMethodology	9	0.050
Feldmann (2012a)	20 OECD	1982-2003	OtherEstimator	Panel data	OECDMethodology	15	-0.017
Feldmann (2012b)	65 OECD and non-OECD	1980-2007	OLS	Panel data	OECDMethodology	3	0.001
Feldmann (2013a)	21 OECD	1985-2009	IV 2SLS	Panel data	OECDMethodology	14	-0.111
Feldmann (2013b)	21 OECD	1987-2009	IV 2SLS	Panel data	OECDMethodology	9	-0.108
Feldmann (2013c)	21 OECD	1973-2005	IV 2SLS	Panel data	OECDMethodology	7	-0.066
Feldmann (2013d)	64 OECD and non-OECD	1984-2008	OLS	Panel data	OECDMethodology	1	-0.020
Feldmann (2013e)	21 OECD	1984-2006	OLS	Panel data	OECDMethodology	9	-0.049
Feldmann (2013f)	44 non-OECD	1992-2008	OLS	Panel data	SurveyBased, OECDMethodology	14	0.074
Feldmann (2014)	55 OECD and non-OECD	1992-2007	IV 2SLS	Panel data	OECDMethodology	1	0.002
Feldmann (2015)	42 non-OECD	1987-2007	IV 2SLS	Panel data	OECDMethodology	13	0.010
Flaig and Rottmann	19 OECD	1960-2000	OLS, Random Effects	Panel data	OECDMethodology	6	0.200

(2013)							
Fialova and Schneider (2009)	19 OECD and non-OECD	1999-2004	Random Effects	Panel data	OECDMethodology	2	0.084
Fitoussi et al. (2000)	19 OECD	1983-1994	OLS	Cross-section	OECDMethodology	1	-0.518
Gatti et al. (2012)	18 OECD	1980-2004	GMM	Panel data	OECDMethodology	12	-0.032
Gebel and Giesecke (2011)	15 OECD	1992-2007	OLS	Panel data	OECDMethodology	8	0.020
Gebel and Giesecke (2016)	19 OECD	1992-2012	FGLS	Panel data	OECDMethodology	12	-0.012
Griffith et al. (2007)	14 OECD	1986-2000	OLS, IV 2SLS	Panel data	OECDMethodology	7	-0.012
Heckman and Pages-Serra (2000)	44 OECD and non-OECD	1980-1999	OLS, Random Effects	Panel data	SurveyBased	40	0.152
Heimberger et al. (2017)	14 OECD	1985-2011	OLS	Panel data	OECDMethodology	26	0.053
Heimberger (2019)	23 OECD	1985-2011	OLS, Random Effects	Panel data	OECDMethodology	18	-0.017
Holt and Hendrickson (2017)	34 OECD	1985-2013	OLS, Random Effects	Panel data	OECDMethodology	24	0.122
Kim and Kim (2017)	28 OECD	1985-2009	Random Effects	Panel data	OECDMethodology	1	-0.213
Lazear (1990)	22 OECD	1956-1984	OLS	Panel / cross-section	LawBased	6	0.123
Lehmann and Muravyev (2012)	29 non-OECD	1995-2008	OLS	Panel data	OECDMethodology	3	0.228
Malul et al. (2011)	33 OECD	2007-2009	OLS	Cross-section	OECDMethodology	2	-0.176
Nickell (1997)	20 OECD	1983-1994	Random Effects	Cross-section	OECDMethodology	3	-0.030
Nickell (1998)	20 OECD	1983-1994	Random Effects	Cross-section	OECDMethodology	2	-0.108
Nickell et al. (2005)	20 OECD	1961-1995	Random Effects	Panel data	OECDMethodology	5	-0.005
Noelke	16 OECD	1980-2008	OLS	Panel data	OECDMethodology	36	0.181

(2016)							
Nymoen and Sparrman (2015)	20 OECD	1960-2012	GMM, FGLS	Panel data	OECDMethodology	9	-0.027
Oesch (2010)	21 OECD	1991-2006	OLS	Panel data	OECDMethodology	2	-0.041
Sarkar (2013)	23 OECD	1990-2008	OLS, OtherEstimator	Panel data	OECDMethodology	34	-0.034
Scarpetta (1996)	17 OECD	1983-1993	FGLS	Panel data	OECDMethodology	30	0.245
Stockhammer and Klär (2011)	20 OECD	1983-2003	OLS	Panel data	OECDMethodology	16	-0.166
Stockhammer et al. (2014)	11 OECD	2007-2011	OLS	Panel data	OECDMethodology	6	0.128
Sturn (2013)	20 OECD	1985-2008	OLS, FGLS	Panel data	OECDMethodology	10	0.052
Tomic (2018)	28 OECD and non-OECD	2002-2014	OLS	Panel data	LawBased	12	-0.068
Vergeer and Kleinknecht (2012)	20 OECD	1961-1995	Random Effects	Panel data	OECDMethodology	4	-0.059



