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Ciminelli, G.

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Appendix D

Appendix to Chapter 5

Countries included in the analysis:

- **Advanced Economies (AEs):** Australia, Austria, Belgium, Canada, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong SAR, Iceland, Ireland, Israel, Italy, Japan, Korea, Latvia, Lithuania, Luxembourg, Macao SAR, Malta, Netherlands, New Zealand, Norway, Portugal, Puerto Rico, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Taiwan Province of China, United Kingdom, United States

- **Emerging Markets and Developing Economies (EMDEs):** Albania, Argentina, Armenia, Azerbaijan, Bangladesh, Barbados, Belize, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, Bulgaria, Chile, Colombia, Costa Rica, Croatia, Dominican Republic, Ecuador, Egypt, El Salvador, Ethiopia, FYR Macedonia, Georgia, Guatemala, Honduras, Hungary, Indonesia, Iran, Jamaica, Kyrgyz Republic, Mauritius, Mexico, Moldova, Mongolia, Montenegro, Morocco, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Qatar, Romania, Russian Federation, Saudi Arabia, Serbia, South Africa, Sri Lanka, Suriname, Thailand, Trinidad and Tobago, Tunisia, Turkey, Uruguay, Venezuela, Zimbabwe.

**Table D.1: Robustness checks on baseline specification
– time fixed effects**

| | AEs | | | EMDEs | | |
|-----------------|---------|-------|-------|---------|-------|-------|
| | β | s.e. | R^2 | β | s.e. | R^2 |
| All working age | -0.29** | -0.06 | 0.53 | -0.16** | -0.03 | 0.17 |
| Adult women | -0.22** | -0.04 | 0.39 | -0.12** | -0.04 | 0.11 |
| Adult men | -0.27** | -0.06 | 0.48 | -0.13** | -0.03 | 0.16 |
| Youth women | -0.5** | -0.1 | 0.43 | -0.21** | -0.07 | 0.1 |
| Youth men | -0.62** | -0.13 | 0.5 | -0.29** | -0.06 | 0.16 |

Notes: the table presents estimates obtained estimating an alternative specification including time fixed effects. Standard errors, clustered at the country level, are in parenthesis. *, and ** denote significance at the 90 percent, and 1 percent confidence level, respectively. AEs and EMDEs stand respectively for advanced economies and emerging markets and developing economies. The sample of AEs comprises 38 countries and 908 observations. The sample of EMDEs comprises 57 countries and 751 observations.

Sources: Authors' estimation based on ILO Key Indicators of the Labour Market and *IMF World Economic Outlook*.

**Table D.2: Robustness checks on baseline specification
– per capita output gap**

| | AEs | | | EMDEs | | |
|-----------------|---------|-------|-------|---------|-------|-------|
| | β | s.e. | R^2 | β | s.e. | R^2 |
| All working age | -0.31** | -0.05 | 0.47 | -0.16** | -0.03 | 0.13 |
| Adult women | -0.21** | -0.04 | 0.34 | -0.14** | -0.03 | 0.07 |
| Adult men | -0.3** | -0.06 | 0.43 | -0.13** | -0.03 | 0.12 |
| Youth women | -0.53** | -0.1 | 0.37 | -0.22** | -0.07 | 0.05 |
| Youth men | -0.67** | -0.12 | 0.45 | -0.29** | -0.06 | 0.11 |

Notes: the table presents estimates obtained estimating Equation (1) and using real GDP per capita to compute the output gap. For other notes and sources refer to Table D.1.

**Table D.3: Robustness checks on baseline specification
– WEO output gap**

| | AEs | | | EMDEs | | |
|-----------------|---------|-------|-------|---------|-------|-------|
| | β | s.e. | R^2 | β | s.e. | R^2 |
| All working age | -0.31** | -0.04 | 0.39 | -0.25** | -0.05 | 0.21 |
| Adult women | -0.22** | -0.03 | 0.29 | -0.2** | -0.04 | 0.11 |
| Adult men | -0.31** | -0.04 | 0.37 | -0.2** | -0.04 | 0.17 |
| Youth women | -0.53** | -0.07 | 0.28 | -0.33** | -0.11 | 0.08 |
| Youth men | -0.68** | -0.09 | 0.36 | -0.47** | -0.1 | 0.17 |

Notes: the table presents estimates obtained estimating Equation 5.1 and using the output gap as estimated in the *IMF World Economic Outlook*. AEs and EMDEs stand respectively for advanced economies and emerging markets and developing economies. The sample of AEs comprises 38 countries and 908 observations. The sample of EMDEs comprises 36 countries and 493 observations. For other notes and sources refer to Table D.1.

**Table D.4: Robustness checks on baseline specification
– sample composition**

| | AEs | | | EMDEs | | |
|-----------------|---------|-------|-------|---------|-------|-------|
| | β | s.e. | R^2 | β | s.e. | R^2 |
| All working age | -0.27** | -0.07 | 0.39 | -0.13** | -0.03 | 0.1 |
| Adult women | -0.2** | -0.05 | 0.27 | -0.12** | -0.03 | 0.06 |
| Adult men | -0.25** | -0.06 | 0.36 | -0.11** | -0.03 | 0.09 |
| Youth women | -0.45** | -0.12 | 0.28 | -0.22** | -0.06 | 0.05 |
| Youth men | -0.59** | -0.14 | 0.37 | -0.25** | -0.05 | 0.1 |

Notes: the table presents estimates obtained estimating Equation 5.1 excluding from the sample new EU member states, Taiwan and Korea. AEs and EMDEs stand respectively for advanced economies and emerging markets and developing economies. The sample of AEs comprises 30 countries and 728 observations. The sample of EMDEs comprises 52 countries and 650 observations. For other notes and sources refer to Table D.1.

**Table D.5: Robustness checks on baseline specification
– first difference specification**

| | AEs | | | EMDEs | | |
|-----------------|---------|-------|-------|---------|-------|-------|
| | β | s.e. | R^2 | β | s.e. | R^2 |
| All working age | -0.24** | -0.05 | 0.35 | -0.18** | -0.03 | 0.14 |
| Adult women | -0.16** | -0.03 | 0.21 | -0.14** | -0.03 | 0.14 |
| Adult men | -0.23** | -0.05 | 0.33 | -0.16** | -0.03 | 0.17 |
| Youth women | -0.41** | -0.09 | 0.23 | -0.29** | -0.06 | 0.17 |
| Youth men | -0.55** | -0.11 | 0.32 | -0.35** | -0.05 | 0.22 |

Notes: the table presents estimates obtained estimating an alternative, first difference, specification where the potential levels of GDP growth rate and the unemployment rate are assumed to be constant and for the dependent and explanatory variables the first difference in the unemployment rate and in log output are used. For other notes and sources refer to Table D.1.