List of Figures

Jeisson Cárdenas Rubio


All the contents of this work, except where otherwise noted, is licensed under a Creative Commons Attribution 4.0 International license.

Todo el contenido de esta obra, excepto donde se indique lo contrario, está bajo licencia de la licencia Creative Commons Reconocimiento 4.0.
List of Figures

Figure 2.1. Labour market structure ................................................................. 17
Figure 2.2. Composition of informal economy .............................................. 19
Figure 2.3. Labour market equilibrium under perfect competition .............. 32
Figure 2.4. Labour market segmentation ......................................................... 34
Figure 3.1. Labour structure in Colombia ....................................................... 47
Figure 3.2. Participation, employment, unemployment, and informality rate trends, 2001-2018 .......................................................... 47
Figure 4.1. IP traffic by source, 2016-2021 ..................................................... 68
Figure 5.1. Job advertisement comparison between job portals .................. 104
Figure 6.1. Steps for extracting more value from job vacancy information .... 121
Figure 6.2. Word cloud: Frequency analysis ............................................... 126
Figure 6.3. Word association: Frequency analysis ........................................ 127
Figure 6.4. Summary of steps carried out to obtain the Colombian vacancy database .............................................................. 145
Figure 7.1. Distribution of job placements by departments, 2016-2018 .......... 154
Figure 7.2. Ratio of job placements to EAP by departments, 2016-2017 ....... 156
Figure 7.3. Job placements by minimum educational requirements .......... 158
Figure 7.4. Word cloud: Most frequent job titles by job portals ................. 160
Figure 7.5. Distribution of job placements by major occupational ISCO-08 groups ................................................................. 162
Figure 7.6. Job placements by experience requirements ............................... 173
Figure 7.7. Trends of the labour demand by major occupational ISCO-08 groups ................................................................. 178
Figure 7.8. Trends of the most demanded occupations at a four-digit level ................................................................. 180
Figure 7.9. Occupations at a four-digit level with a positive trend ................................................................. 182
Figure 7.10. Occupations at a four-digit level with a negative trend ................................................................. 184
Figure 7.11. Wage density ................................................................................................................................. 186
Figure 7.12. Jobs by type of contract ................................................................................................................ 187
Figure 7.13. Duration density (monthly) ............................................................................................................. 188
Figure 8.1. Education and wages (Colombian pesos) ....................................................................................... 196
Figure 8.2. Occupations and wages (Colombian pesos) .................................................................................... 197
Figure 8.3. Years of experience and wages ....................................................................................................... 197
Figure 8.4. Job placements and employment distribution by occupational groups (ISCO-08) ...................................................... 210
Figure 8.5. Wage distributions .......................................................................................................................... 214
Figure 8.6. Time series: Total employment and job placements, 2016-2018 ....................................................... 219
Figure 8.7. Time series: Total unemployment and job placements, 2016-2018 ..................................................... 224
Figure 8.8. Time series: New hires and job placements, 2016-2018 ................................................................. 229
Figure 9.1. Occupational distribution of the Colombian workforce by skill level ......................................................... 243
Figure 9.2. Unemployment and informality rates and duration of unemployment by skill level ...................... 249
Figure 9.3. Average wages of formal and informal workers by skill level .......................................................... 250
Figure 9.4. Labour market composition of Colombian workers by skill level, 2010-2018 ......................................................... 251
Figure 9.5. Employment growth by skill level, 2011-2018 ............................................................................... 252
Figure 9.6. Evolution of the unemployment rate by skill level, 2015-2018 ....................................................... 253
Figure 9.7. Evolution of the informality rate by skill level, 2010-2018 .............................................................. 253
Figure 9.8. Beveridge curve by (major) occupational groups .............................................................................. 259
Figure 9.9. Percentage change in unemployed individuals by sought occupation ............................................. 266
Figure 9.10. Percentage change in formal employment by occupation .............................................................. 268
Figure 9.11. Percentage change in new hires by occupation .............................................................................. 269
Figure 9.12. Percentage change in hours worked for formal employees by occupation .............................................. 271
Figure 9.13. Percentage change in job placements by occupation ........................................................................ 271
Figure 9.14. Percentage change in mean real hourly wage for formal employees by occupation ......................... 274
Figure 9.15. Occupational hourly pay premia .................................................................................................. 277
<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.16</td>
<td>Occupational pay premia within job placements</td>
<td>278</td>
</tr>
<tr>
<td>9.17</td>
<td>Number of occupations according to the percentage of indicators that suggest skill shortages</td>
<td>282</td>
</tr>
<tr>
<td>A.1</td>
<td>Job portal comparison</td>
<td>350</td>
</tr>
<tr>
<td>A.2</td>
<td>Job advertisement comparison within the same job portal</td>
<td>352</td>
</tr>
<tr>
<td>A.3</td>
<td>Code comparison between job portals</td>
<td>354</td>
</tr>
<tr>
<td>A.4</td>
<td>HTML code structure</td>
<td>356</td>
</tr>
<tr>
<td>C.1</td>
<td>Fuzzy merge: The classification of companies</td>
<td>361</td>
</tr>
<tr>
<td>E.1</td>
<td>SVM classification with job titles</td>
<td>363</td>
</tr>
</tbody>
</table>