# A Note on the Relation between Search Costs and Search Duration for New Hires - Online Appendix 

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January 7, 2020

Table 1 presents descriptive statistics across industries, Table 2 presents the coefficients for industries of Model 3, Table 3 and the following Tables present robustness checks.

Table 1: Descriptive statistics across industries

| Sectors <br> Financial services, insurance | Monetary search costs (Euros) |  | Search hours |  | Search duration (days) |  | Comp. search costs (Euros) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5110 | (17007) | 22 | (23) | 84 | (81) | 6179 | (17261) |
| Machinery and equipment, electrical equipment and motor vehicles | 2907 | (7294) | 19 | (17) | 69 | (54) | 3759 | (7945) |
| Information and communication | 1378 | (3010) | 25 | (32) | 70 | (70) | 2573 | (3790) |
| Mining and quarrying, electricity, gas, steam and air conditioning supply | 1432 | (3089) | 20 | (19) | 72 | (68) | 2450 | (3469) |
| Coke and refined petroleum products, chemicals and plastic products | 1271 | (3198) | 22 | (62) | 52 | (51) | 2184 | (4686) |
| Professional, scientific and technical activities | 1142 | (2735) | 20 | (18) | 73 | (72) | 1959 | (3196) |
| Food; textile, clothes and furniture | 1219 | (4081) | 17 | (21) | 56 | (63) | 1780 | (4555) |
| Wood, paper and printing | 977 | (3313) | 20 | (26) | 74 | (96) | 1701 | (3585) |
| Public administration and defense; compulsory social security | 720 | (1228) | 23 | (23) | 65 | (60) | 1670 | (1743) |
| Water supply; sewerage, waste management and remediation activities | 880 | (1593) | 22 | (37) | 66 | (67) | 1647 | (2263) |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 1043 | (3252) | 18 | (25) | 61 | (61) | 1640 | (3856) |
| Real estate activities | 975 | (2214) | 20 | (18) | 60 | (56) | 1637 | (2450) |
| Arts, entertainment, recreation | 773 | (2451) | 22 | (23) | 58 | (52) | 1561 | (3045) |
| Basic metals, fabricated metal products | 904 | (2734) | 18 | (20) | 75 | (78) | 1547 | (2919) |
| Transportation and storage | 584 | (1559) | 23 | (38) | 67 | (79) | 1438 | (2416) |
| Education | 547 | (1331) | 26 | (39) | 65 | (59) | 1415 | (1908) |
| Other services | 442 | (1060) | 18 | (17) | 66 | (70) | 1052 | (1481) |
| Human health and social work activities | 569 | (2171) | 15 | (18) | 70 | (97) | 981 | (2244) |
| Construction | 341 | (895) | 16 | (23) | 81 | (87) | 875 | (1322) |
| Accommodation and food service activities | 343 | (1250) | 18 | (29) | 64 | (66) | 765 | (1511) |
| Administrative and support service activities | 289 | (817) | 19 | (35) | 63 | (85) | 741 | (1185) |
| Agriculture, forestry and fishing | 189 | (923) | 15 | (19) | 67 | (74) | 588 | (1130) |
| Overall mean | 920 | (3652) | 19 | (28) | 67 | (75) | 1576 | (4051) |

[^0] size classes.

Table 2: Sector coefficients of Model 3


Table 3: OLS and IV regressions: Search cost and search duration for academics, vocational training and no qualification

| Dependent variable: | Academics |  | Vocational training |  | No qualification |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | OLS | IV | OLS | IV | OLS | IV |
| log of search duration | $0.16^{* * *}$ | -0.11 | $0.21^{* * *}$ | -0.20 | 0.20 | 0.20 |
| SE | $(0.03)$ | $(0.36)$ | $(0.01)$ | $(0.28)$ | $(0.03)$ | $(0.83)$ |
| $\mathrm{R}^{2}$ | 0.41 | 0.37 | 0.34 | 0.22 | 0.23 | 0.24 |
| N | 1861 | 1861 | 6584 | 6584 | 1317 | 1317 |

Robust standard errors in parentheses. 9,048 observations. Controls are the same as in the table in the text. Significance levels: ${ }^{*},{ }^{* *},{ }^{* * *}$ indicate significance at $0.05,0.01$ and 0.001 .

Table 4: OLS and IV regressions: Search cost and search duration for manufacturing and services

| Dependent variable: | Manufacturing |  | Services |  |
| :--- | :---: | :---: | :---: | :---: |
| log of compounded search costs | OLS | IV | OLS | IV |
| log of search duration | $0.22^{* * *}$ | -0.25 | $0.19^{* * *}$ | -0.30 |
| SE | $(0.02)$ | $(0.31)$ | $(0.02)$ | $(0.28)$ |
| $\mathrm{R}^{2}$ | 0.41 | 0.29 | 0.38 | 0.24 |
| N | 4244 | 4244 | 5204 | 5204 |

Robust standard errors in parentheses. 9,048 observations. Controls are the same as in the table in the text. Significance levels: ${ }^{*},{ }^{* *},{ }^{* * *}$ indicate significance at $0.05,0.01$ and 0.001 .

Table 5: OLS regression: Search cost and search duration, reference specification vs 3-digit occupational fixed effects

| Dependent variable: | Ref. specification | Occupational fixed effects |
| :--- | :---: | :---: |
| log of compounded search costs |  |  |
| log of search duration | 0.20 | 0.20 |
| SE | $(0.01)$ | $(0.01)$ |
| $\mathrm{R}^{2}$ | 0.39 | 0.29 |
| N | 9048 | 9048 |

Robust standard errors in parentheses. 9,048 observations. Controls are the same as in the table in the text. Significance levels: ${ }^{*},{ }^{* *},{ }^{* * *}$ indicate significance at $0.05,0.01$ and 0.001 .

Table 6: IV regressions: Search cost and search duration with instruments tightness and vacancyunemployment separately

| Dependent variable: | tightness | $\ln v, \ln u$ |
| :--- | :---: | :---: |
| log of compounded search costs |  |  |
| log of search duration | -0.35 | -0.35 |
| SE | $(0.25)$ | $(0.23)$ |
| $\mathrm{R}^{2}$ | 0.22 | 0.22 |
| N | 9048 | 9048 |

Robust standard errors in parentheses. 9,048 observations. Controls are the same as in the table in the text. Significance levels: *, ${ }^{* *}$, ${ }^{* * *}$ indicate significance at $0.05,0.01$ and 0.001 .


[^0]:    Mean and standard deviation (in parenthesis), weighted values. 9,048 observations. Source: German Job Vacancy Survey 2014 and 2015. The survey weights are based on strata for 23 economic sectors and 7 firm

