

Supplementary material S5: List of R packages

For article: The short-term impact of formal controls on subsequent offending and future formal controls in a German and UK city.

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The following list gives an overview of which R packages were used as part of the work on the article “The Impact of Formal Controls: A comparative study between an English and a German city”:

- Generally, all computations were conducted with the software *R* (version 3.5.2; R Core Team, 2018; RStudio, version 1.1.463, RStudio Team, 2016)
- For propensity score estimation, we used the R packages *arm* (version 1.10-1; Gelman et al., 2018), *BART* (version 2.2; McCulloch et al., 2019), and *CBPS* (version 0.19; Fong et al., 2018) to estimate scores via Bayesian logistic models (McElreath, 2016), Bayesian Additive Regression Trees (Chipman et al., 2010), and Covariate Balancing Propensity Score estimation (Imai & Ratkovic, 2014), respectively.
- To conduct the matching and weighting, the R package *MatchIt* (version 3.0.2; Ho et al., 2011) was used; the package produces weights for subsequent regression models.
- The covariate balance was assessed with the help of the R package *cobalt* (version 3.6.1; Greifer, 2019).
- Normal linear regressions were applied within the R package *Zelig* (version 5.1.6; Imai, King, & Lau, 2008; King, Tomz, & Wittenberg, 2000) and subsequently a postestimation feature of *Zelig* was used to estimate Average treatment effects on the treated (ATTs)

References

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