

# More Than Just Associations: An Introduction to Causal Inference for Sport Science

Master thesis

From

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Personally signed

**Abstract**

**Zusammenfassung (German abstract)**

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**Zusammenfassung (German abstract)**

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# **1 Introduction**

## **1.1 Background**

This is a test of references (1).

## References

1. Rohrer JM. [Thinking Clearly About Correlations and Causation: Graphical Causal Models for Observational Data](#). *Advances in Methods and Practices in Psychological Science*. 2018;1(1):27–42.



## A Appendix

### A.1 Technical Details

#### A.1.1 Session Info

```
sessionInfo()
```

```
R version 4.3.1 (2023-06-16 ucrt)
Platform: x86_64-w64-mingw32/x64 (64-bit)
Running under: Windows 11 x64 (build 22631)
```

```
Matrix products: default
```

```
locale:
```

```
[1] LC_COLLATE=German_Germany.utf8 LC_CTYPE=German_Germany.utf8
[3] LC_MONETARY=German_Germany.utf8 LC_NUMERIC=C
[5] LC_TIME=German_Germany.utf8
```

```
time zone: Europe/Berlin
```

```
tzcode source: internal
```

```
attached base packages:
```

```
[1] stats      graphics  grDevices  utils      datasets  methods    base
```

```
loaded via a namespace (and not attached):
```

```
[1] compiler_4.3.1    here_1.0.1        fastmap_1.1.1     rprojroot_2.0.4
[5] cli_3.6.2         tools_4.3.1       htmltools_0.5.8   rstudioapi_0.16.0
[9] yaml_2.3.8        rmarkdown_2.26    knitr_1.45        jsonlite_1.8.8
[13] xfun_0.43         digest_0.6.35     rlang_1.1.3       evaluate_0.23
```

#### A.1.2 Packages

```
p_used <- unique(renv::dependencies(path = "../")$Package)
```

```
Finding R package dependencies ... Done!
```

```
p_inst <- as.data.frame(installed.packages())
out <- p_inst[p_inst$Package %in% p_used, c("Package", "Version")]
rownames(out) <- NULL
out
```

	Package	Version
1	here	1.0.1
2	renv	1.0.5
3	rmarkdown	2.26