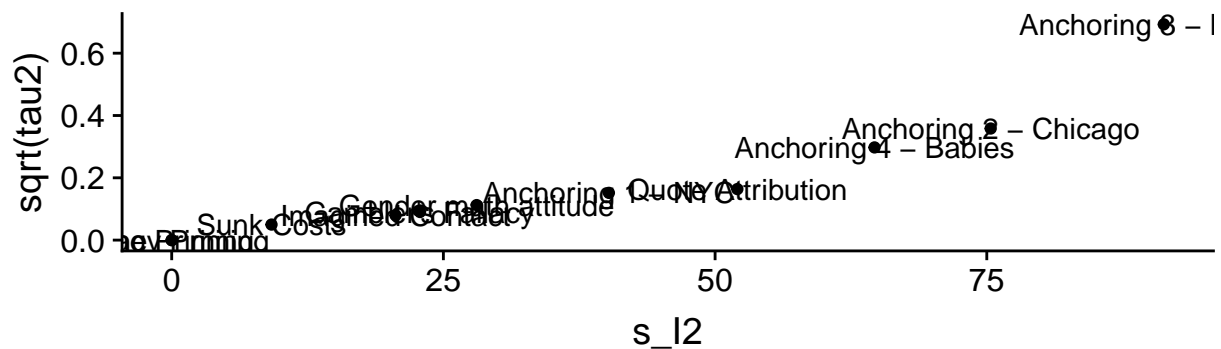


# Troubleshooting tau2

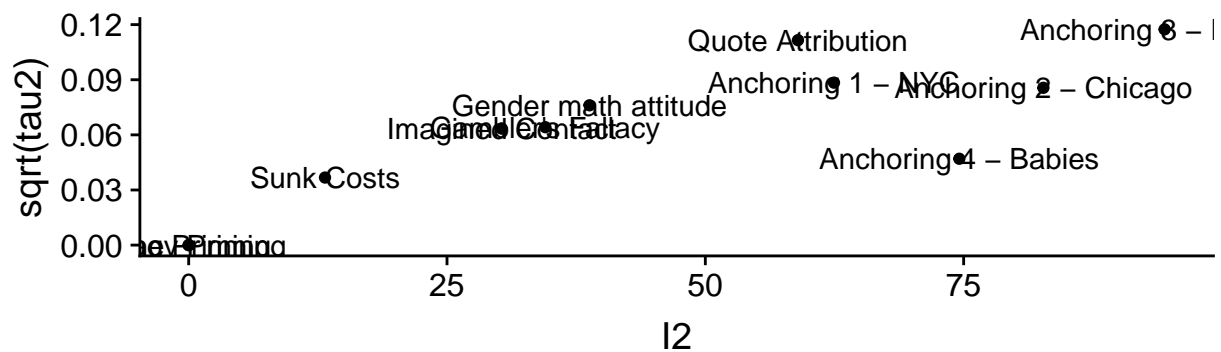
*Anton Olsson Collentine*

*7 mei 2019*

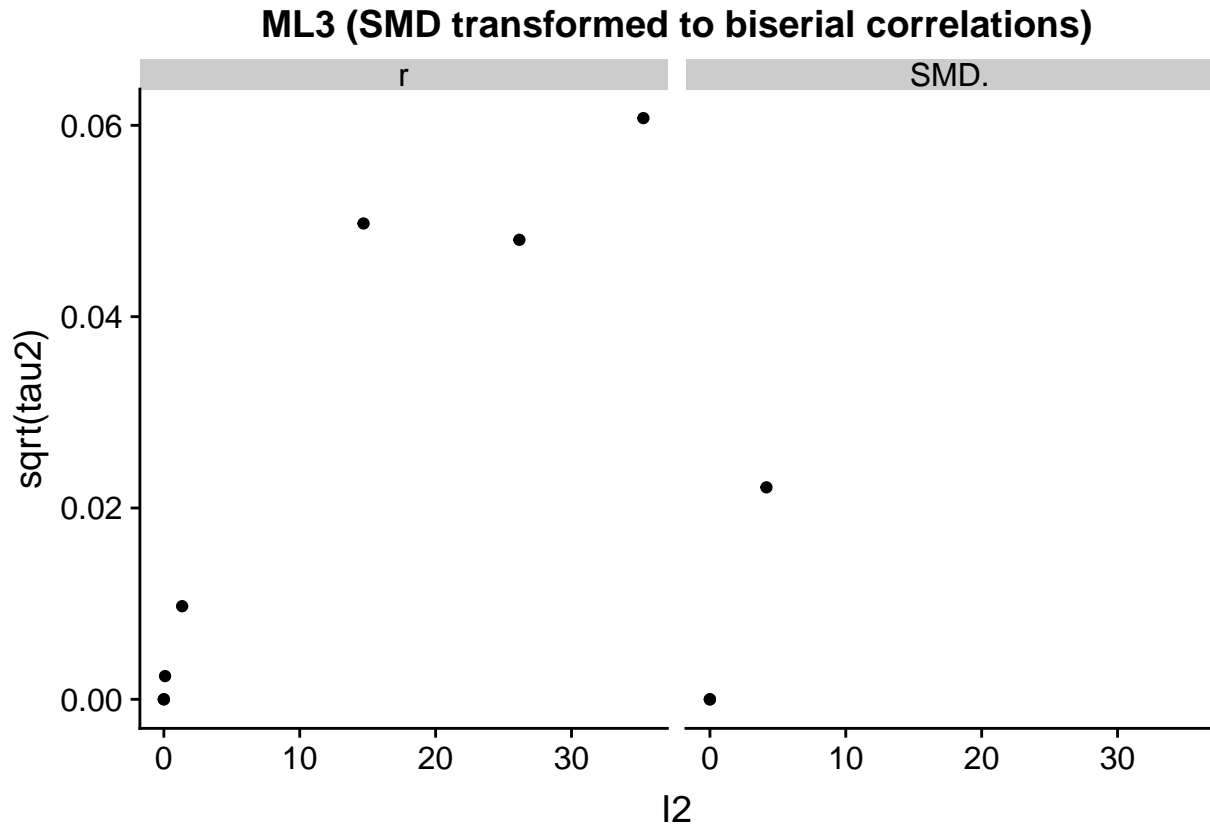
## ML1 SMD – untransformed effect sizes



## ML1 biserial r – transformed SMD effect sizes



The four effects at the end are Anchoring 1,2,3,4



The one non-increasing effect in the left plot above is ‘Credentials interaction’. However, note that all the ML3 ‘correlations’ are either transformed partial eta-squared of 2x2 tables in the first table (we can’t fix this, would have to get into the raw data which seems like too much work, I mentioned this in the revised draft)

Check which effects get truncated:

```
dat %>%
  split(.$effect) %>%
  map_dfr(transform_MA, .id = "effect") %>%
  filter(r > 1)
```

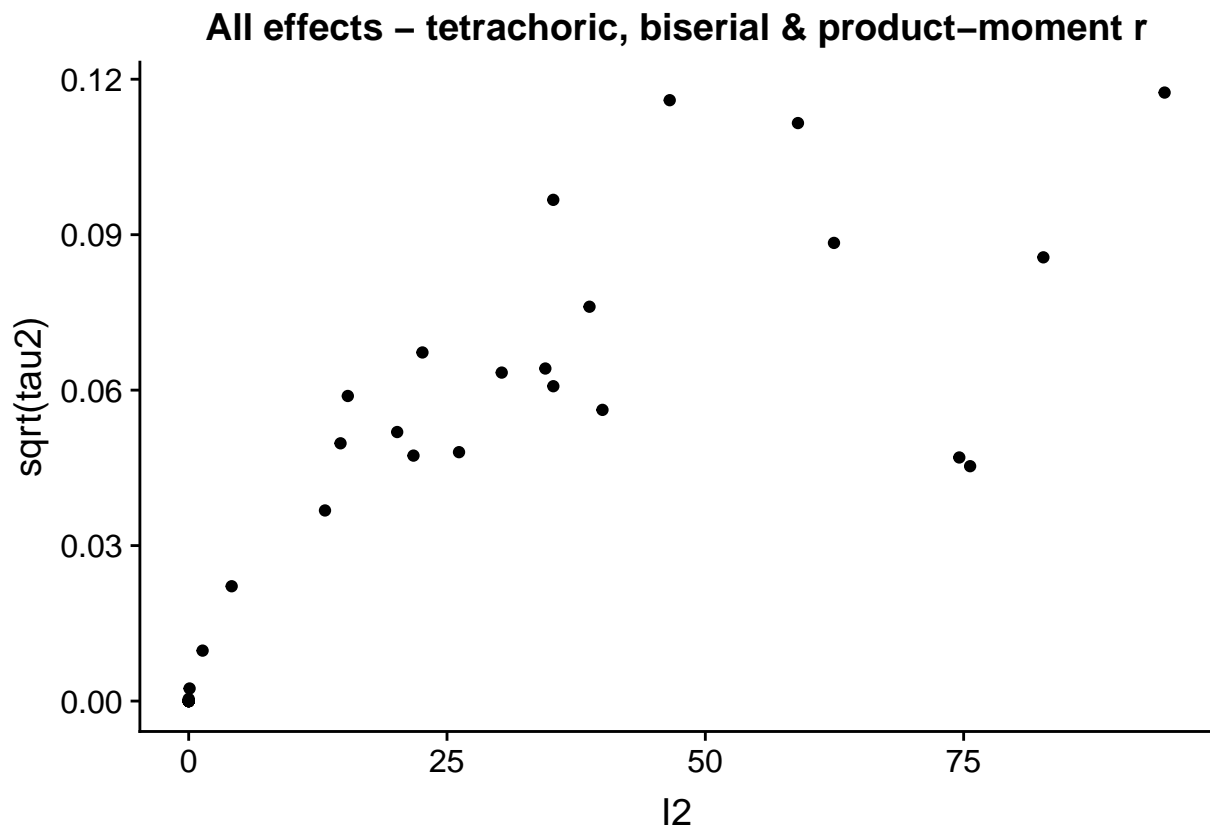
##	effect	r	vi	n
## 1	Anchoring 2 - Chicago	1.037239	0.0009615220	NA
## 2	Anchoring 2 - Chicago	1.023831	0.0009003590	NA
## 3	Anchoring 2 - Chicago	1.034815	0.0009406875	NA
## 4	Anchoring 2 - Chicago	1.070713	0.0013542127	NA
## 5	Anchoring 3 - Everest	1.003413	0.0011468637	NA
## 6	Anchoring 3 - Everest	1.100490	0.0008669169	NA
## 7	Anchoring 3 - Everest	1.045074	0.0008877424	NA
## 8	Anchoring 3 - Everest	1.012695	0.0002738024	NA
## 9	Anchoring 3 - Everest	1.168396	0.0018200691	NA
## 10	Anchoring 3 - Everest	1.098721	0.0008235548	NA
## 11	Anchoring 3 - Everest	1.070460	0.0007698048	NA
## 12	Anchoring 3 - Everest	1.011212	0.0009320243	NA
## 13	Anchoring 3 - Everest	1.030118	0.0004800473	NA
## 14	Anchoring 3 - Everest	1.065253	0.0009301704	NA

```

## 15 Anchoring 3 - Everest 1.003478 0.0006001020 NA
## 16 Anchoring 3 - Everest 1.114616 0.0007160133 NA
## 17 Anchoring 3 - Everest 1.015831 0.0007893139 NA
## 18 Anchoring 3 - Everest 1.027750 0.0007539286 NA
## 19 Anchoring 4 - Babies 1.017014 0.0009290498 NA
## 20 Anchoring 4 - Babies 1.017783 0.0008520000 NA
## 21 Anchoring 4 - Babies 1.064677 0.0008235548 NA
## 22 Anchoring 4 - Babies 1.002945 0.0006317964 NA
## 23 Anchoring 4 - Babies 1.092992 0.0008590549 NA
## 24 Anchoring 4 - Babies 1.048956 0.0007941040 NA
## 25 Anchoring 4 - Babies 1.033880 0.0005749757 NA
## 26 Anchoring 4 - Babies 1.046186 0.0010923186 NA
## 27 Anchoring 4 - Babies 1.015629 0.0010798194 NA
## 28 Anchoring 4 - Babies 1.116764 0.0006360040 NA
## 29 Anchoring 4 - Babies 1.060034 0.0010004780 NA
## 30 Anchoring 4 - Babies 1.042027 0.0007675570 NA
## 31 Anchoring 4 - Babies 1.067667 0.0008256784 NA
## 32 Anchoring 4 - Babies 1.076853 0.0009239412 NA

```

Basically the anchoring effects.



The effect that is close to one of the anchoring effects ( $I^2 \sim 75$ ,  $\tau \sim .05$ ) is Allowed vs. forbidden which also has  $r = .90$ .