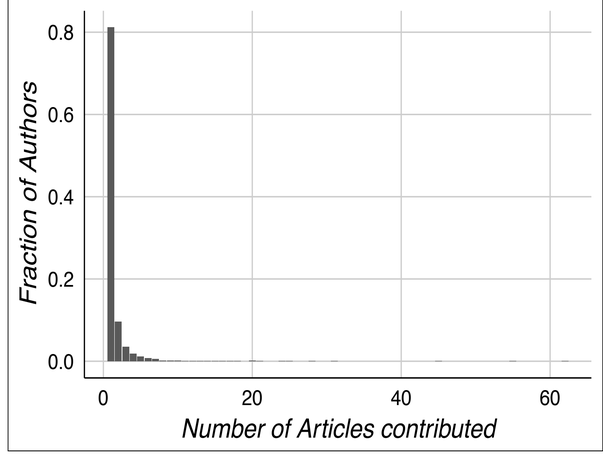
Universiteit Leiden

# A Bibliometric Analysis of Studies on Human Mate Preferences

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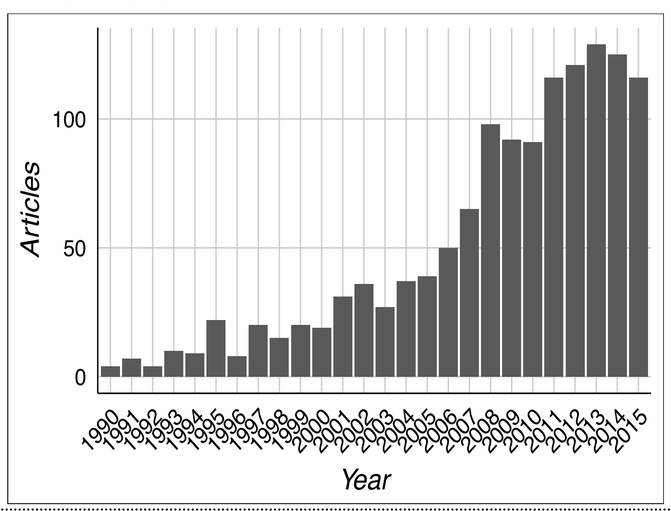
## Introduction

- Mate preferences and choice have been at the heart of *Evolutionary Psychology*.[1]
- Bibliometric analyses provide a helicopter view of the field.
- Mostly descriptive and very much work in progress.
- Review might indicate unity or division of field.

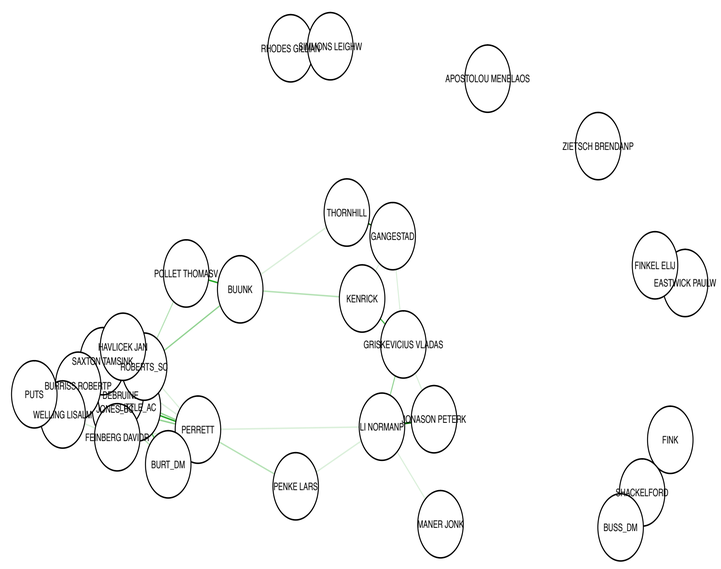
## Method

- Web of Science (1990-2015): 50 journals covering biology, psychology, anthropology.
- keywords: ''mate and (preferences or choice)'. For biology journals: + 'human'.
- 1,311 records.
- Bibliometric analyses in R 3.3.1 with bibliometrix package and qgraph.[2]
- 110 single-authored, on average 1.97 authors per article.
- On average 32.3 citations per article.

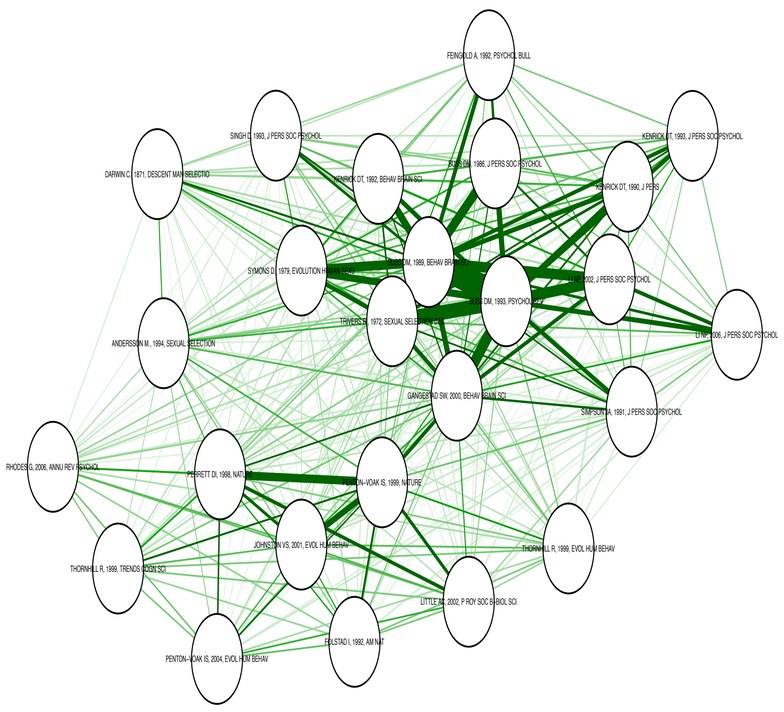



## Results

- Top 5 productive and countries: USA / England / Scotland / Germany / Australia.
- Top 5 'keywords-plus': Preferences/Selection/Attractiveness/ Sex Differences/Menstrual cycle
- Top 5 journals (N articles): Evol Hum Behav / PAID / Evol Psy US / Arch Sex Behav / Proc Roy Soc B.
- Lotka's law is supported ($p$=.32): N authors publishing a certain number of articles is a fixed ratio to the N authors publishing a single article. (inverse-square law).
- Co-author graph (n=30):

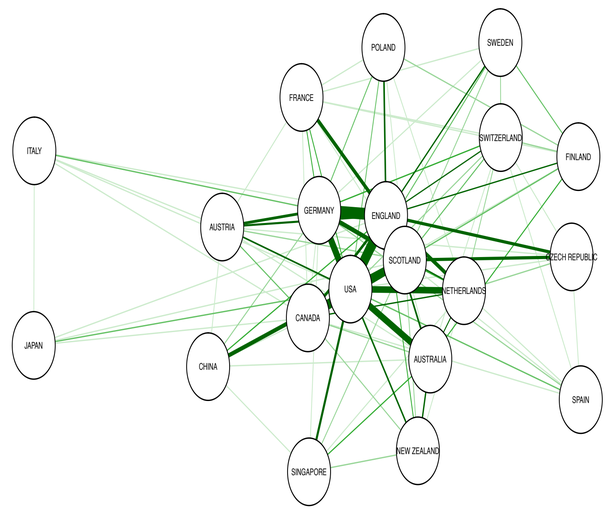



* Co-citation graph (n=20)




## Results (cont.)

- Country collaboration graph:




## Conclusion

- Growth in the literature.
- Confirmation of most bibliographic 'laws'.
- Description of co-author networks, co-citation and country collaboration graphs shows clustering.
- Further analyses necessary. For example, historical co-citation graphs.

## References

**References**

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2.R Development Core Team, 2008. R: a language and environment for statistical computing. Aria, M. and Cuccurullo C. (2016). bibliometrix: A R tool for comprehensive bibliometric analysis of scientific literature. http://www.bibliometrix.org . Epskamp, S., Cramer, A. O .J., Waldorp, L. J. , Schmittmann, V. D., Borsboom, D. (2012). qgraph: Network Visualizations of Relationships in Psychometric Data. *Journsal of Statitical Software*, 48(4), 1-18. http://www.jstatsoft.org/v48/i04/.

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