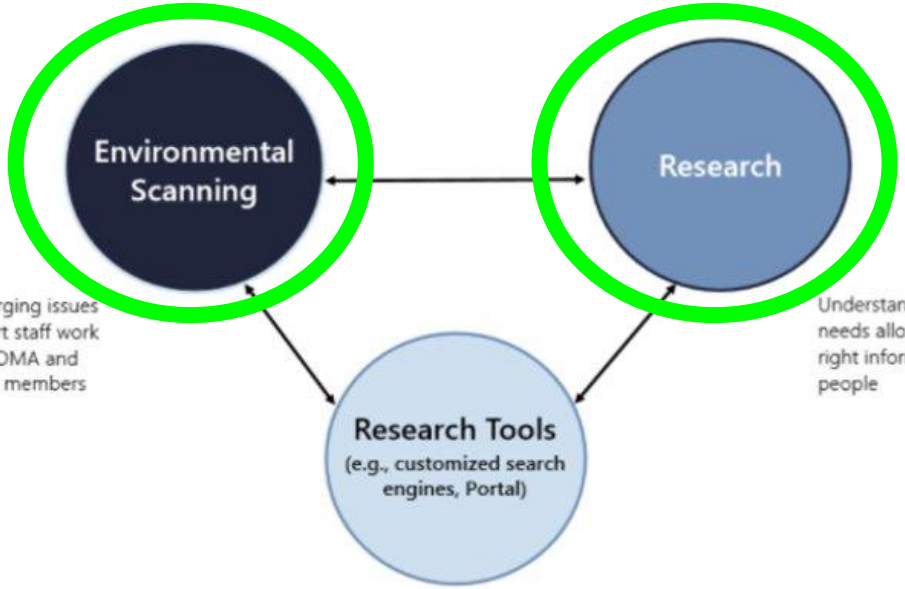
OMA Ontario Medical Association

Applied Bibliometric Mapping for Searching using Citation Gecko, Dimensions & VosViewer

Brett Williams
Senior Research Analyst

Scan Artists' Approach to Research

OMA EPR Research Group



Bringing key emerging issues forward to support staff work in advancing the OMA and the interests of its members

Understanding of our clients' needs allows us to provide the right information to the right people

Building research tools for OMA staff, founded on our environmental scanning and research work

Nimble **Integrated** **Comprehensive** **Efficient**

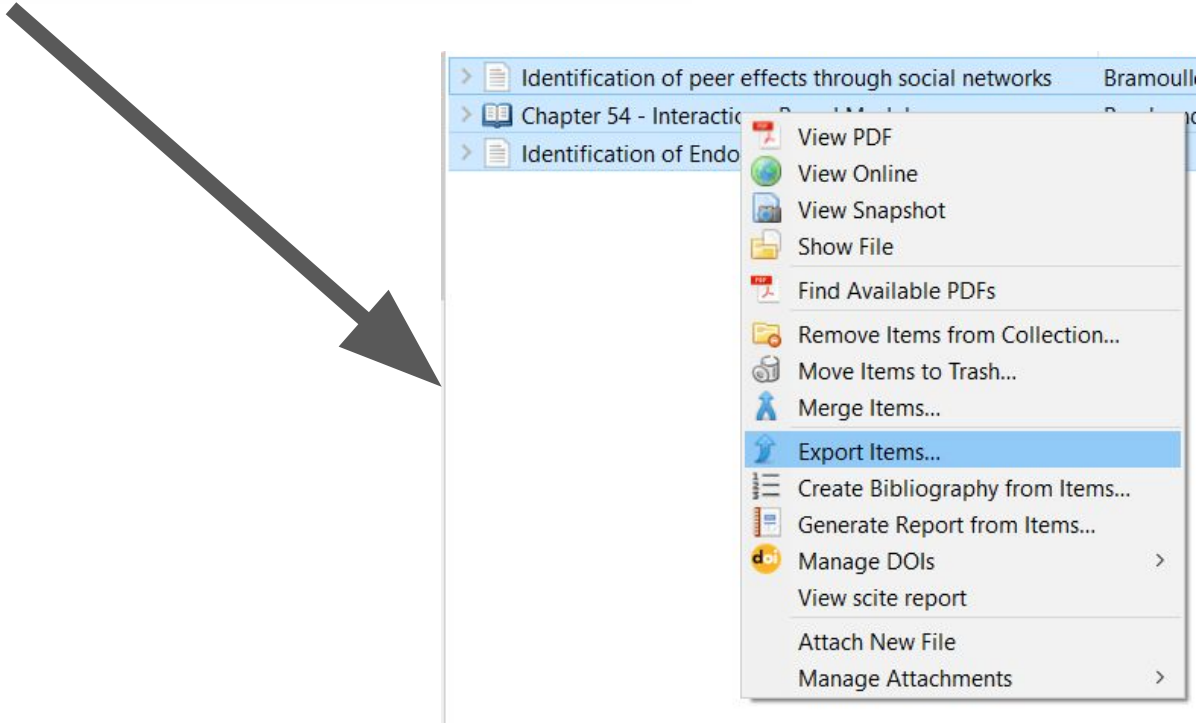
Nice people doing great work

Saving you time and making you look good

zotero
The Foundation

Quick View

Title	Creator	Date
Identification of peer effects through social networks	Bramoullé et al.	May 1, 2009
Chapter 54 - Interactions-Based Models	Brock and Durl...	January 1, 2001
Identification of Endogenous Social Effects: The Reflect...	Manski	July 1, 1993

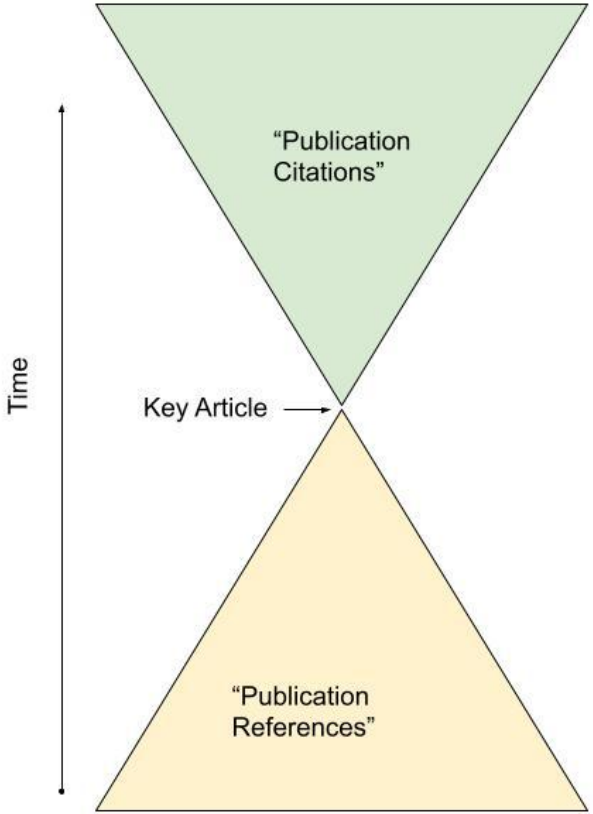


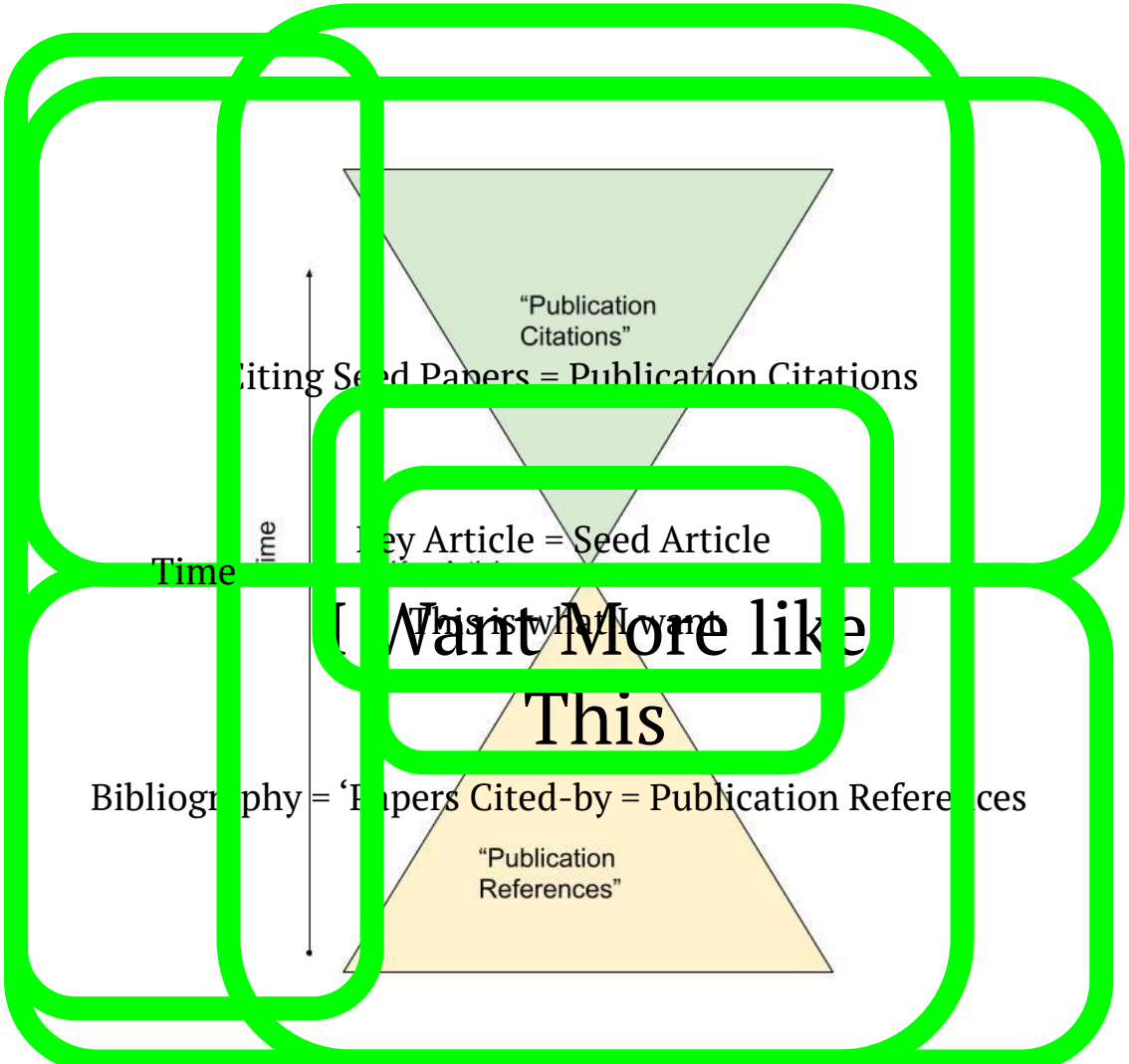
“This is what I want.

I want more like it”

Finding, not math.

- 3D Citation Mining
- One additional tool, not a replacement for the search
- Requires a mental model of research process
- Maps are a visualization of what you’ve already found and their interconnections, not a keyword search
- Zotero is the base.


"Publication Citations"
Time
Key Article
"Publication References"


"Publication Citations"
Citing Seed Papers = Publication Citations
Key Article = Seed Article
Time
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I Want More like This
This is what I want
Bibliography = Papers Cited-by = Publication References
"Publication References"

Color Code

Citation Gecko

VosViewer & Dimensions

Three Key Articles

An economist PhD candidate defined the key articles in the field

Manski, C. F. (**1993**). Identification of Endogenous Social Effects: The Reflection Problem. *The Review of Economic Studies*, *60*(3), 531. https://doi.org/10.2307/2298123

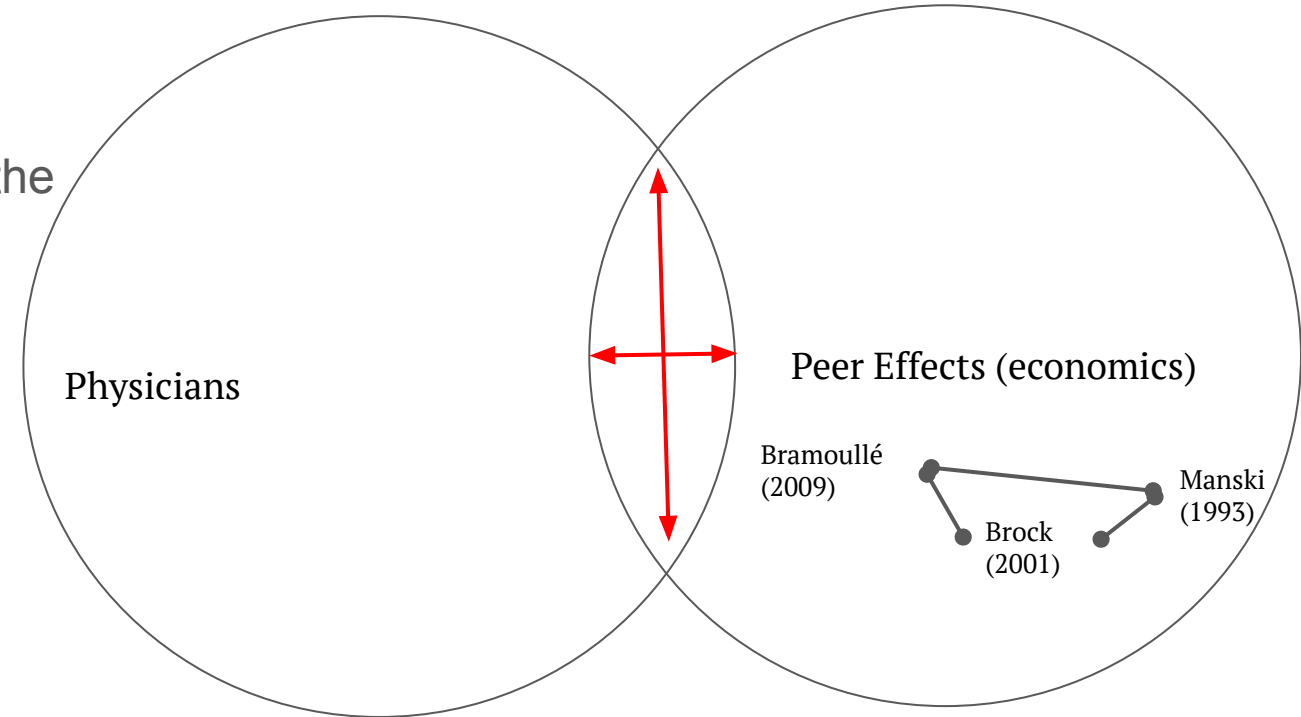
Brock, W. A., & Durlauf, S. N. (**2001**). Interactions-Based Models. In *Handbook of Econometrics* (Vol. 5, pp. 3297–3380). Elsevier. https://doi.org/10.1016/S1573-4412(01)05007-3

Bramoullé, Y., Djebbari, H., & Fortin, B. (**2009**). Identification of peer effects through social networks. *Journal of Econometrics*, *150*(1), 41–55. https://doi.org/10.1016/J.JECONOM.2008.12.021

What don’t I know?

The broad landscape of how Manski (1993), Brock (2001) and Bramoullé (2009) are used by scholars studying **Physicians**.

I don’t know how to identify the scope of what I don’t know.



Quick View

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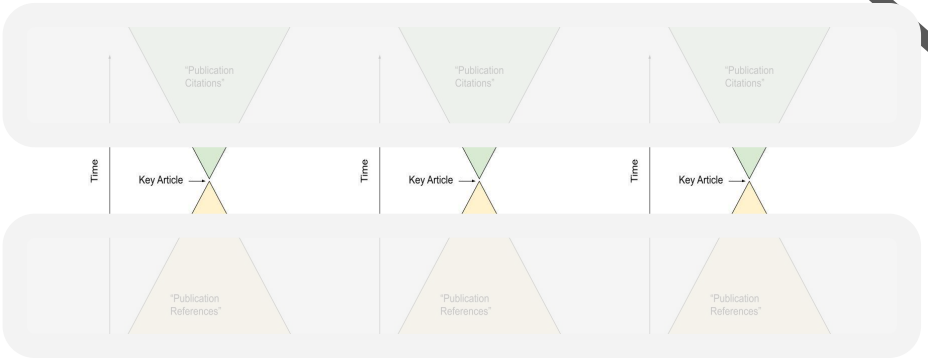
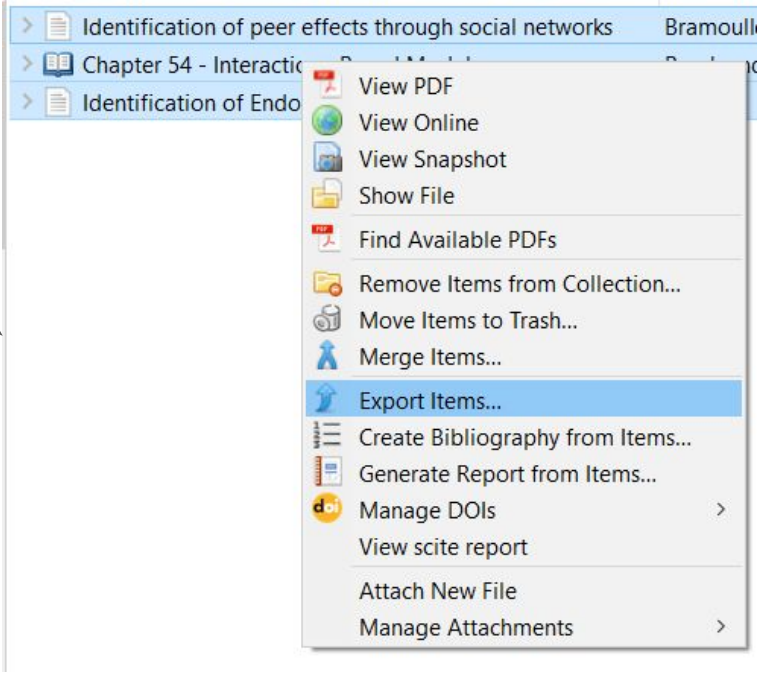
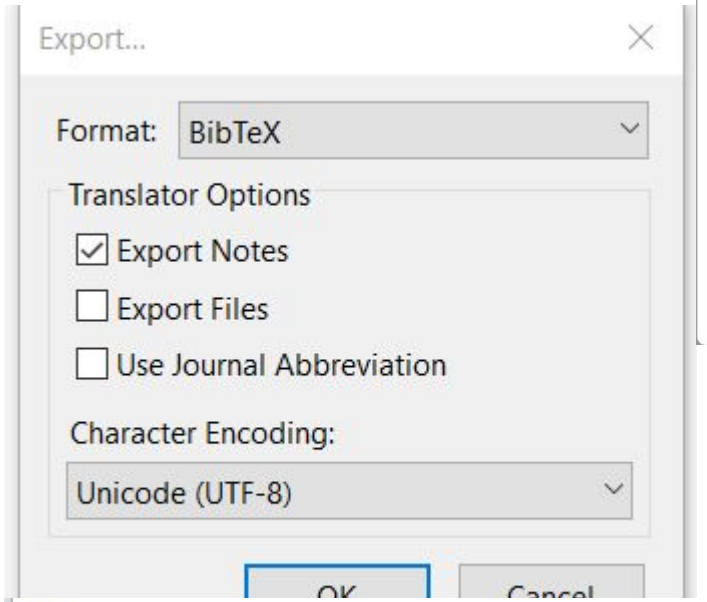
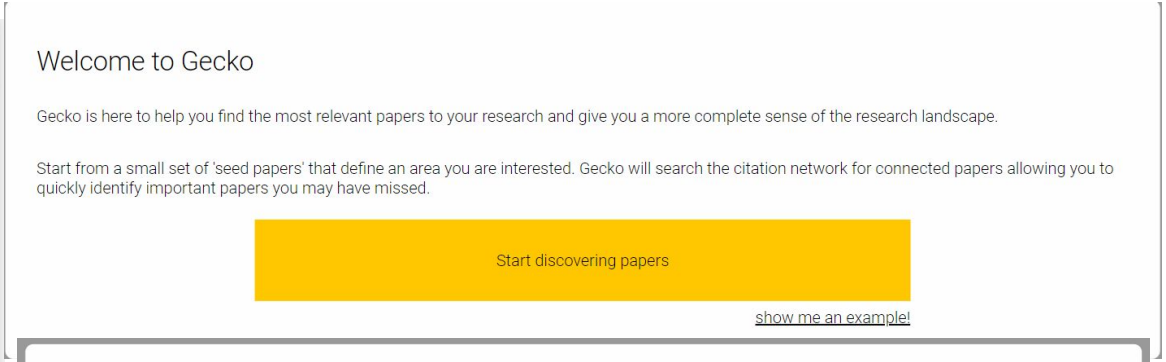
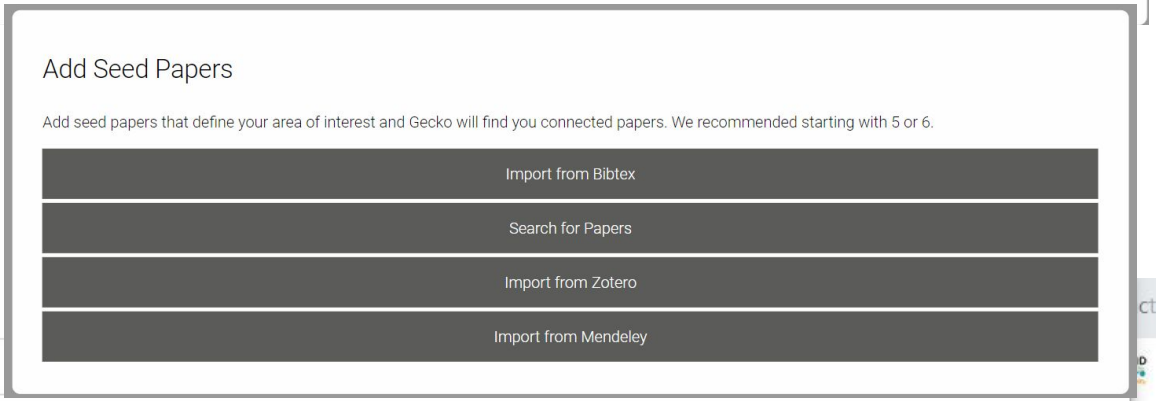


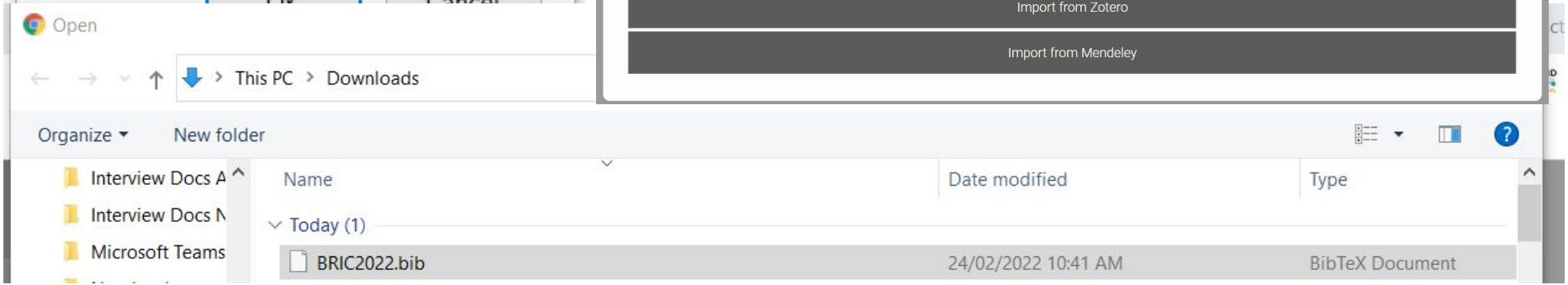


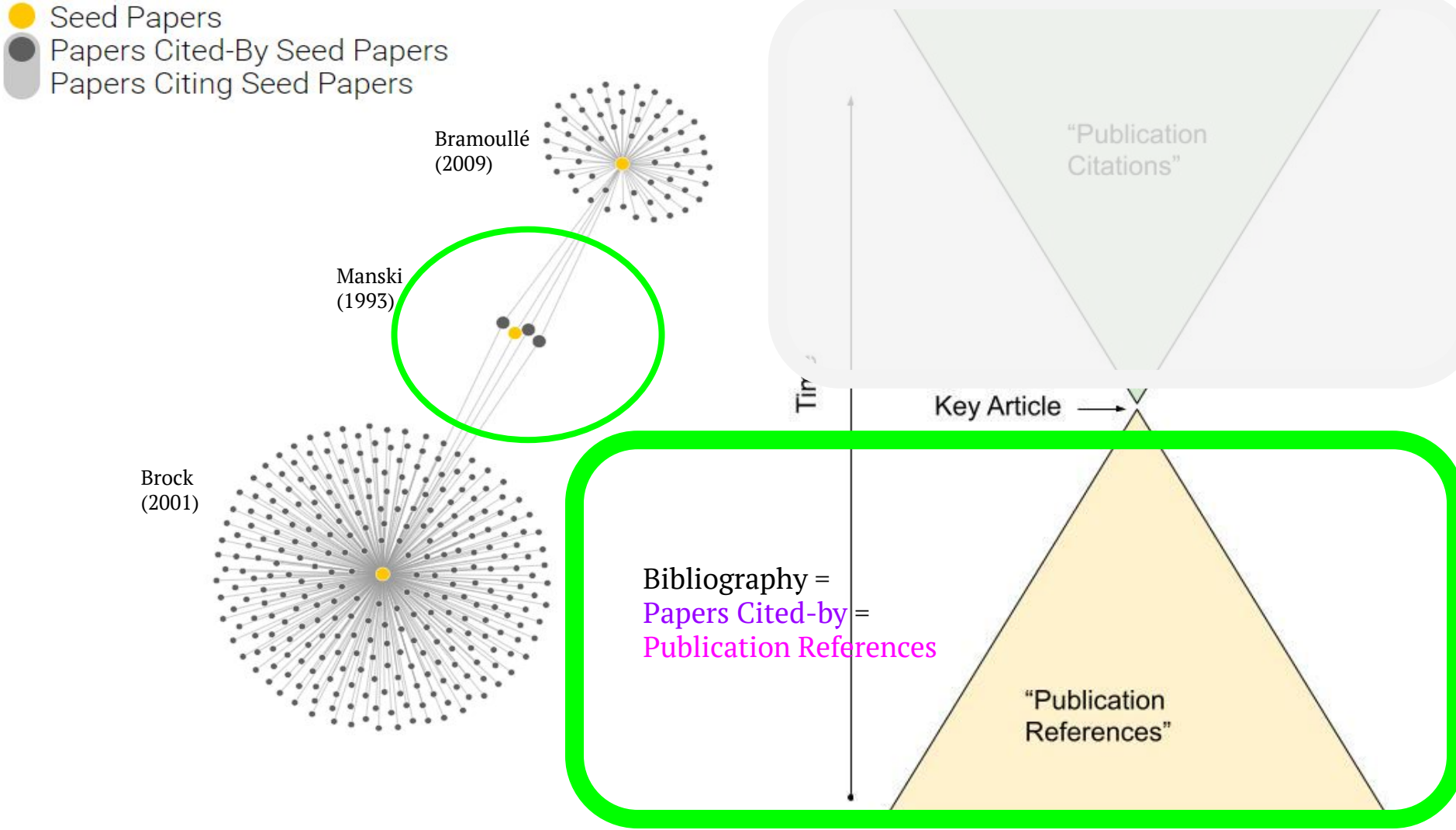
Citation Gecko







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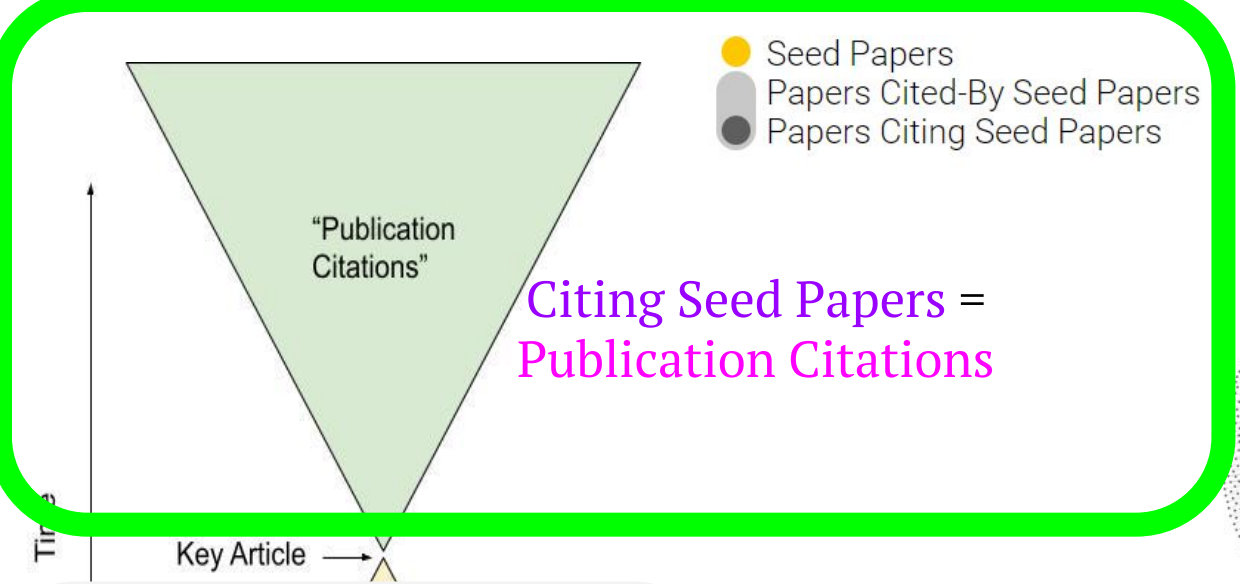

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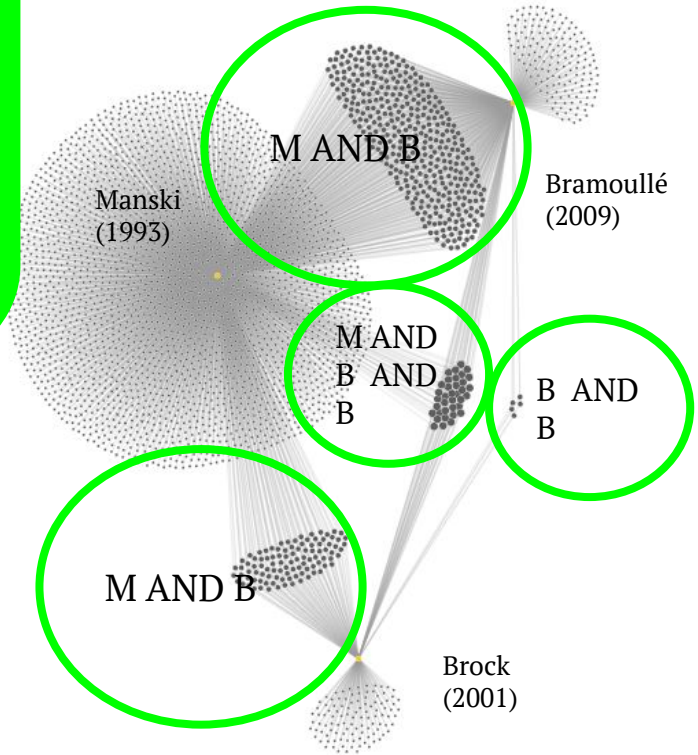


Lessons

- Highly interconnected
- **Not primarily about physicians**
- Reached the limit of what citation gecko is capable of telling me
- There is missing data in the bibliography / cited-by / publication references

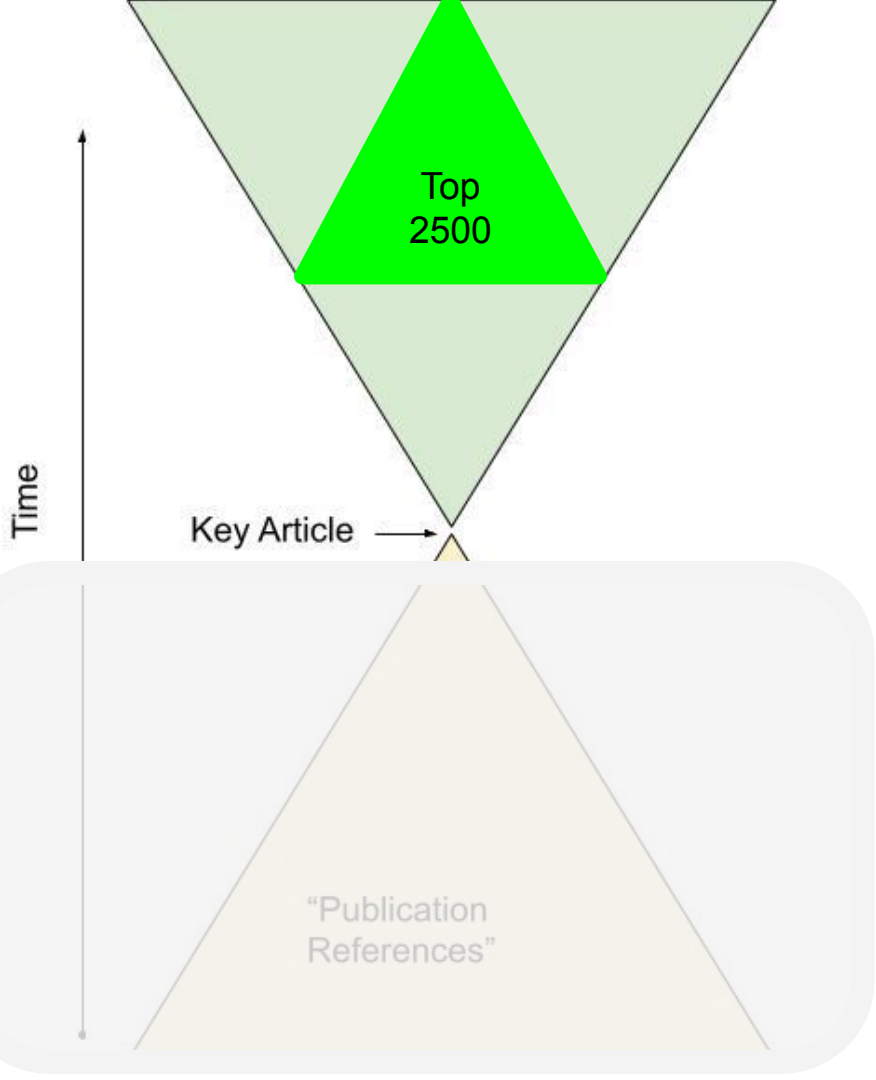
Tools Used

Williams, B. (2020). Dimensions & VOSViewer Bibliometrics in the Reference Interview. *The Code4Lib Journal*, *47*. https://journal.code4lib.org/articles/14964

Methods 1

Export all citations to Manski (1993), Brock (2001) and Bramoullé (2009) found in Dimensions and map how authors

1. Cite Manski, Brock OR Bramoullé
2. Cite each other
3. Top 2500 papers by citation count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Methods 1

Export all citations to Manski (1993), Brock (2001) and Bramoullé (2009) found in Dimensions and map how authors

1. Cite Manski, Brock OR Bramoullé
2. Cite each other
3. Top 2500 papers by citation count within the data set

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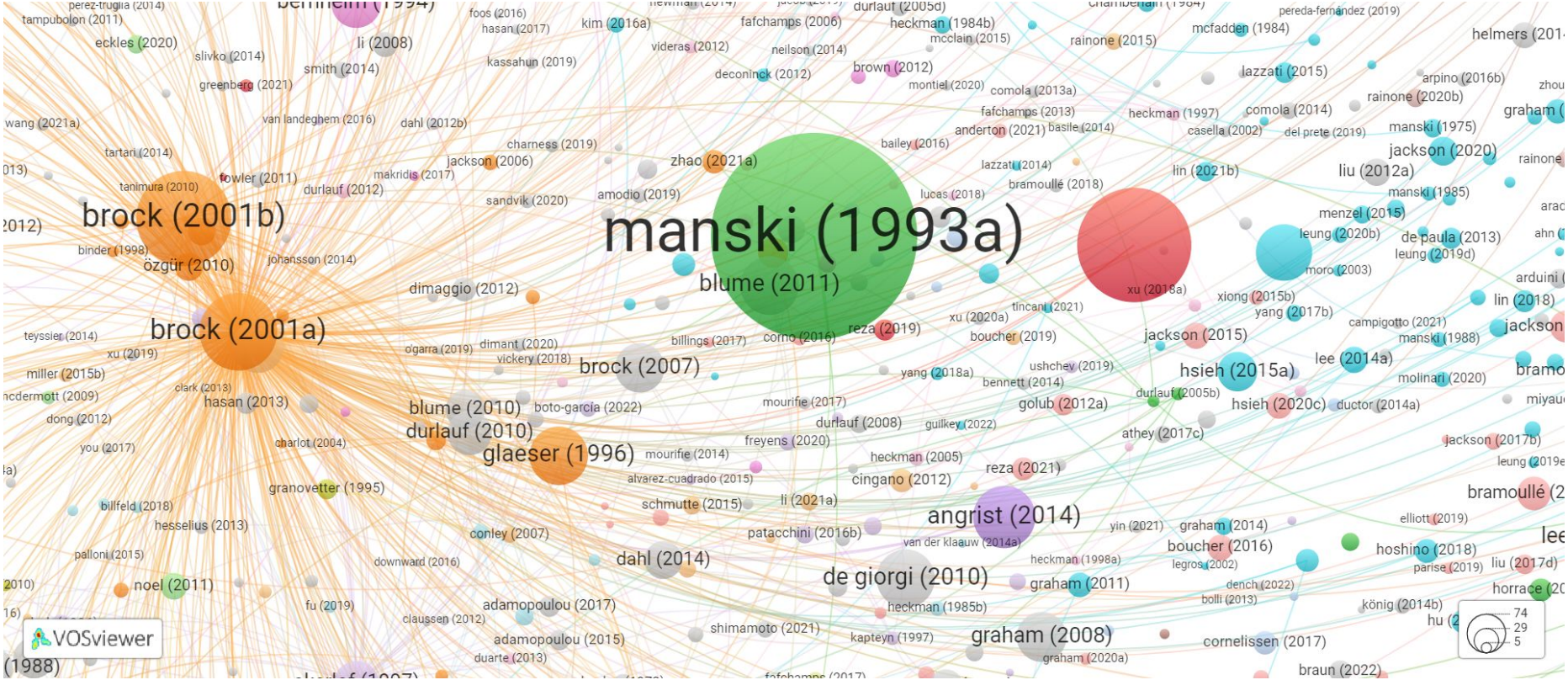

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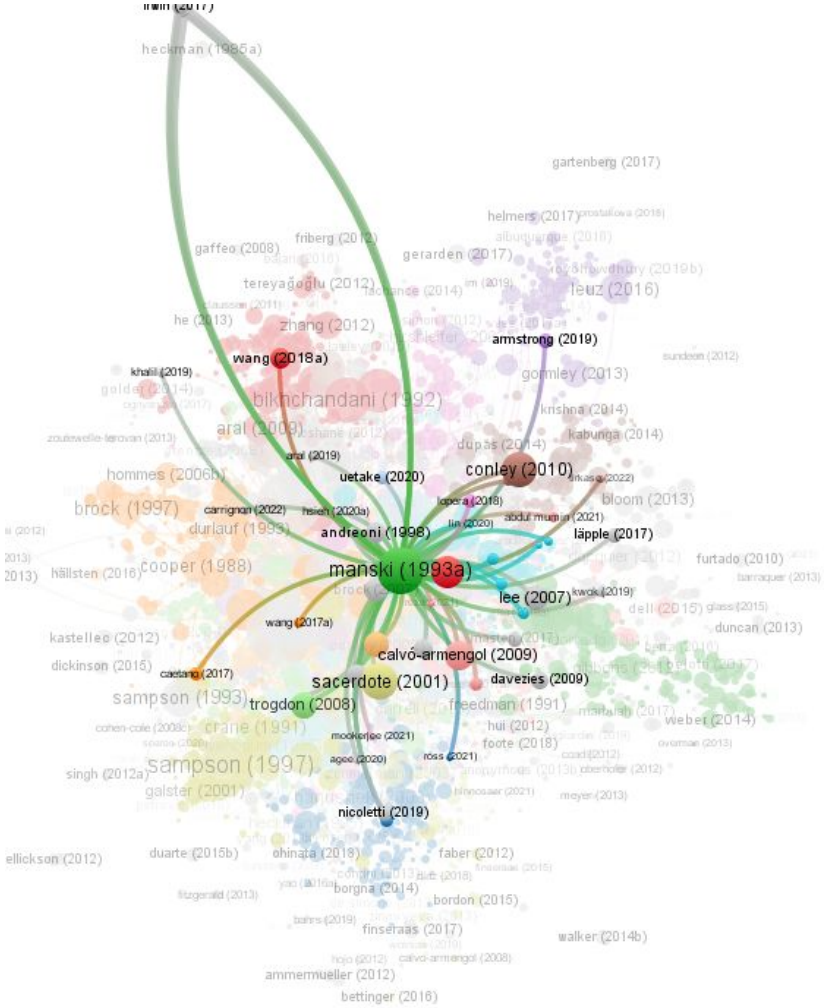
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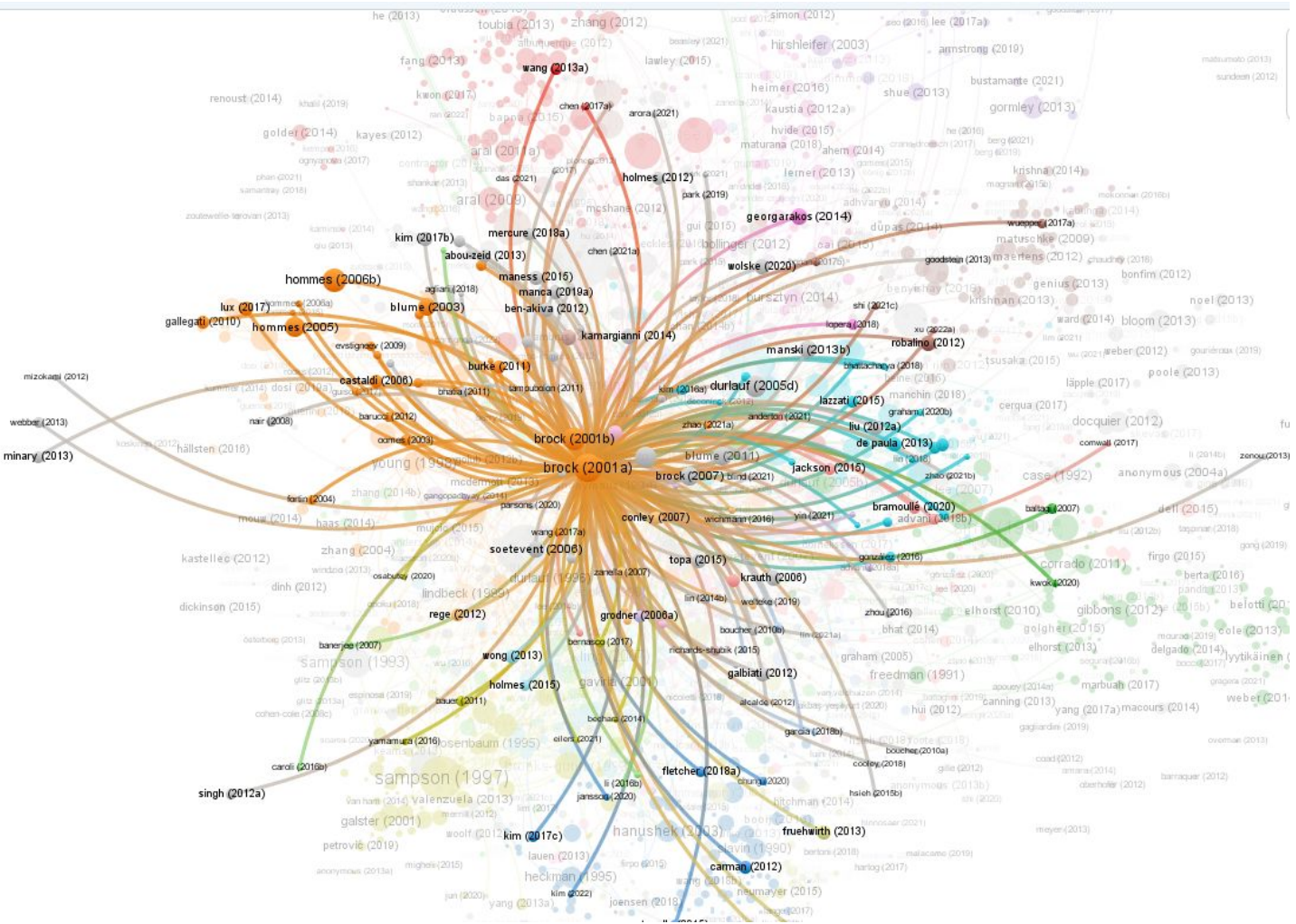
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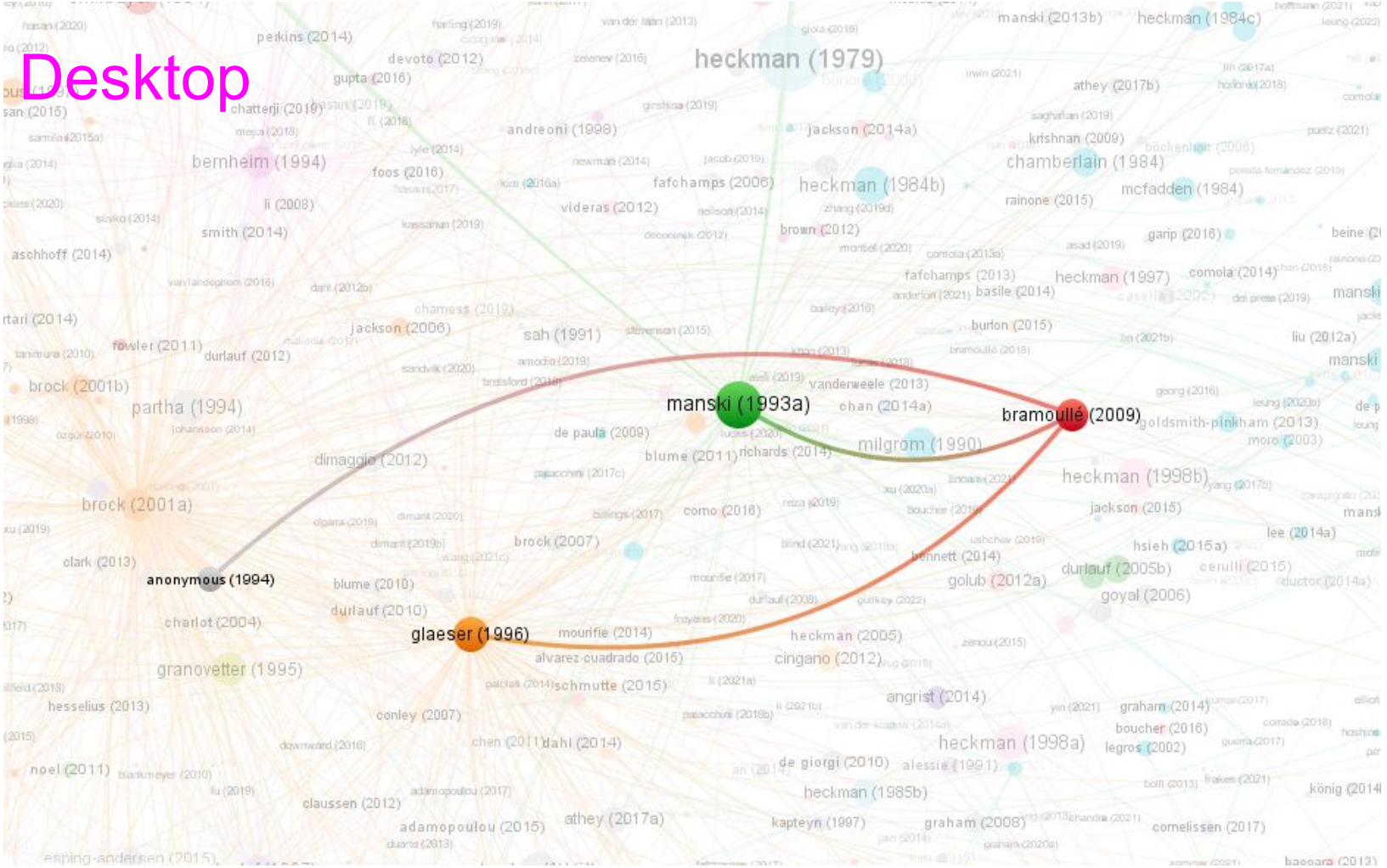
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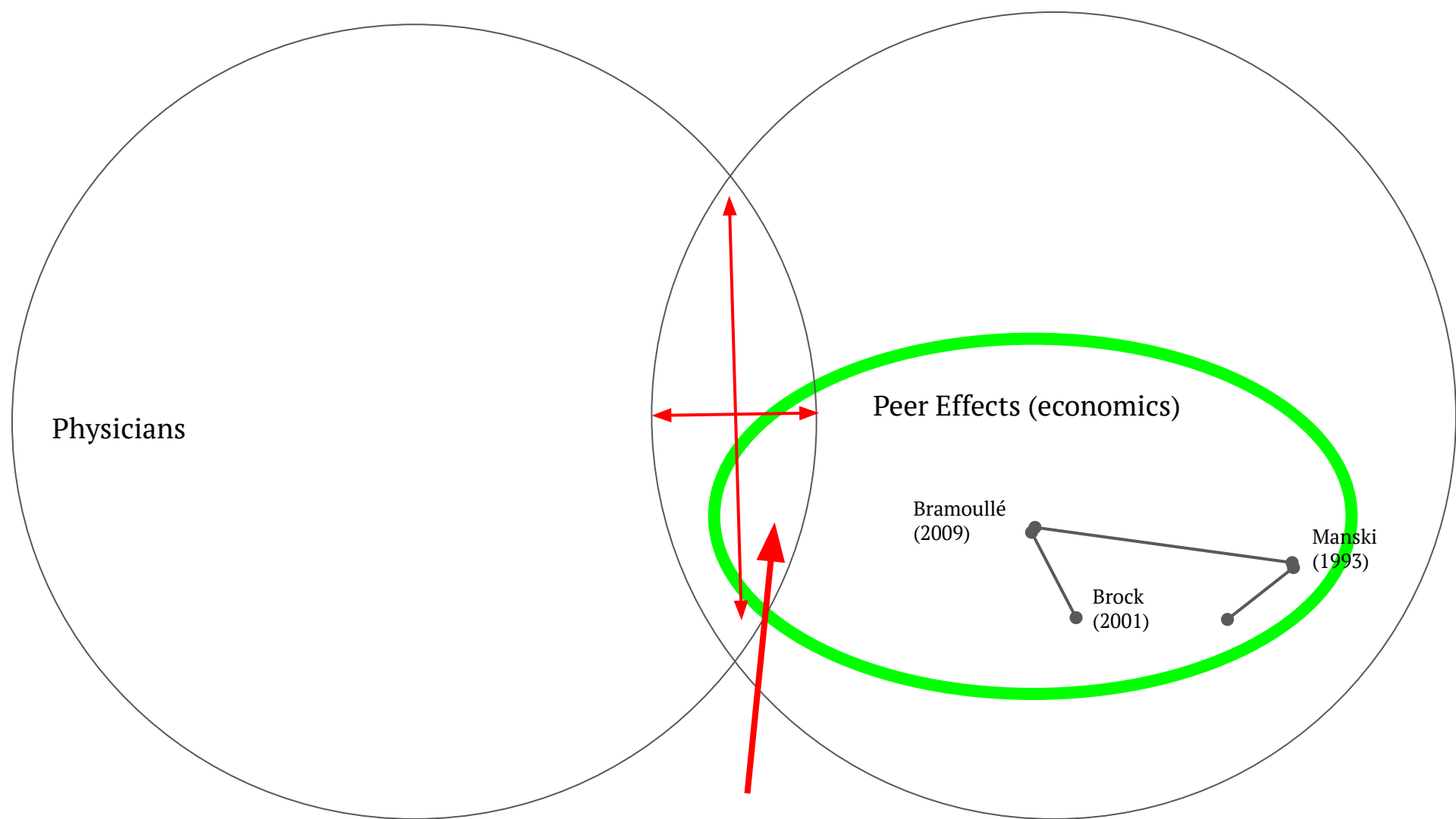
What did I establish?

Manski is **really** influential in this area of scholarship

Brock & Bramoullé build on Manski and are influential in this area of scholarship

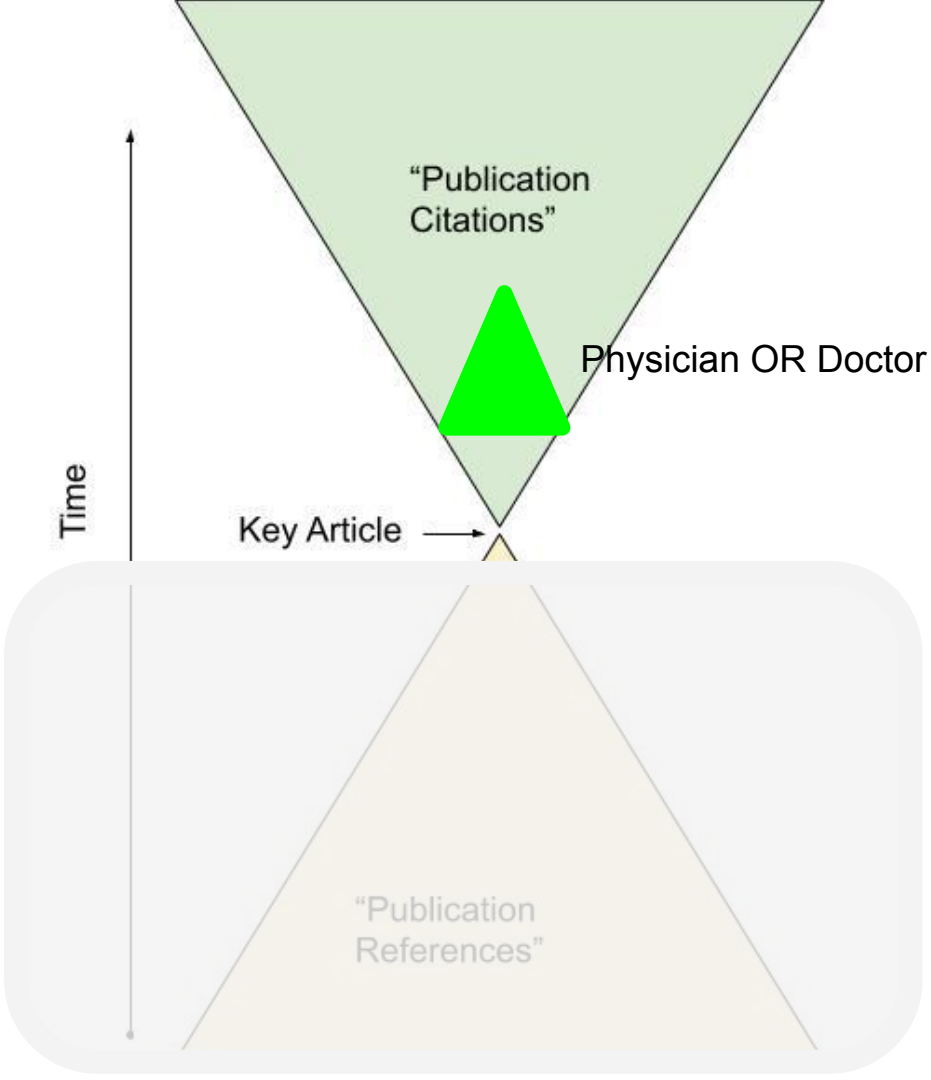
But there's **not a lot about physicians**


Physicians
Peer Effects (economics)
Bramoullé
(2009)
Manski
(1993)
Brock
(2001)

Methods 2

Export all citations to Manski (1993), Brock (2001) and Bramoullé (2009) searched against for the word '**Physician OR Doctor**' in **title and abstract** in Dimensions and map how authors

1. Cite Manski, Brock OR Bramoullé
2. Cite each other
3. 1 citation
4. 1000 by citation count

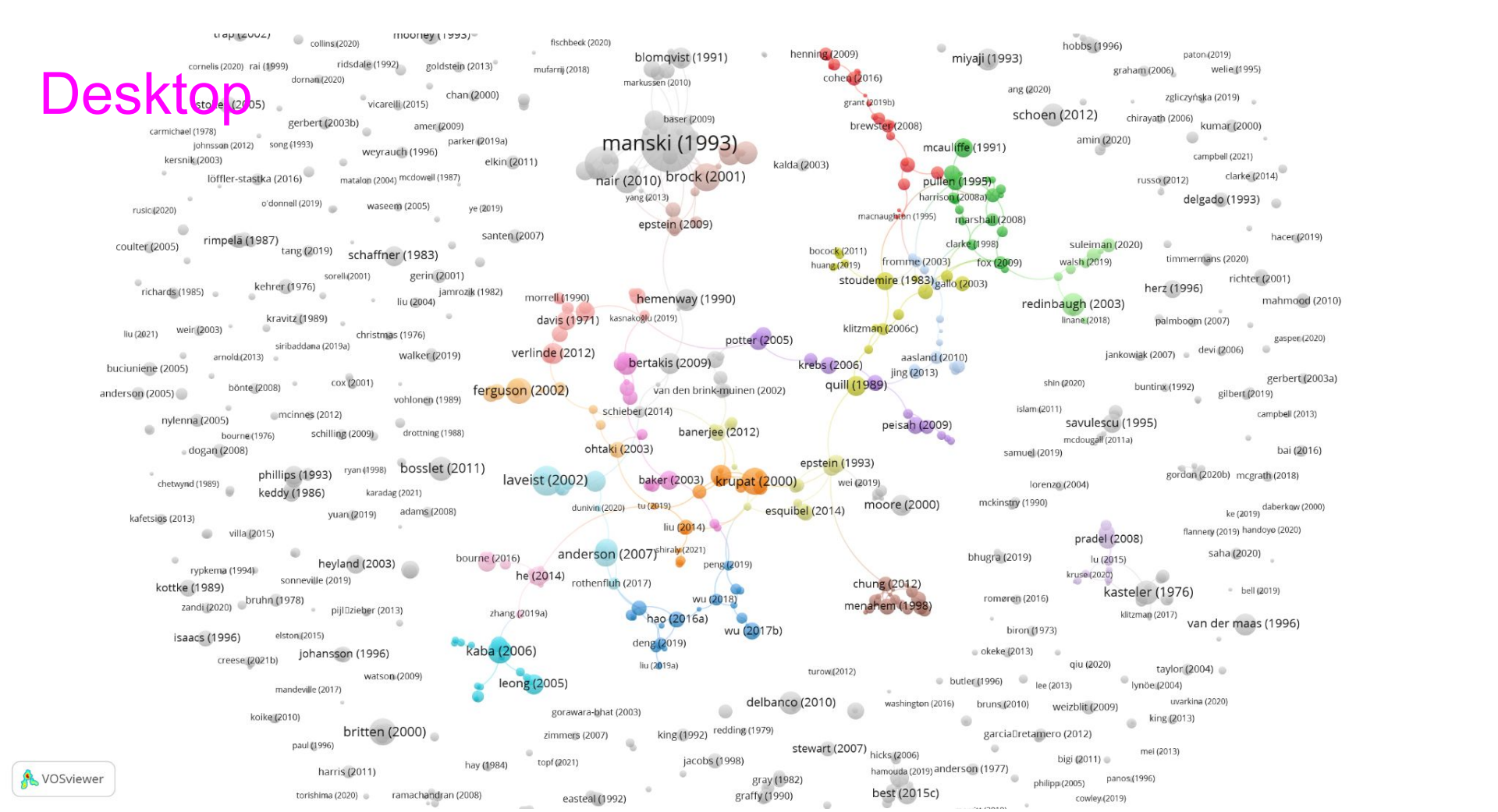

"Publication Citations"
Physician OR Doctor
Time
Key Article
"Publication References"

Methods 2

Export all citations to Manski (1993), Brock (2001) and Bramoullé (2009) searched against for the word '**Physician OR Doctor**' in **title and abstract** in Dimensions and map how authors

1. Cite Manski, Brock OR Bramoullé
2. Cite each other
3. 1 citation
4. 1000 most relevant

https://app.vosviewer.com/?json=https%3A%2F%2Fdrive.google.com%2Fuc%3Fid%3D1Co4RmUhMwCERBDP4A0kKhuQLFCN34UBv


Desktop
manski (1993)
nair (2010)
brock (2001)
blomqvist (1991)
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harrison (2008a)
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mufarrij (2018)
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graham (2006)
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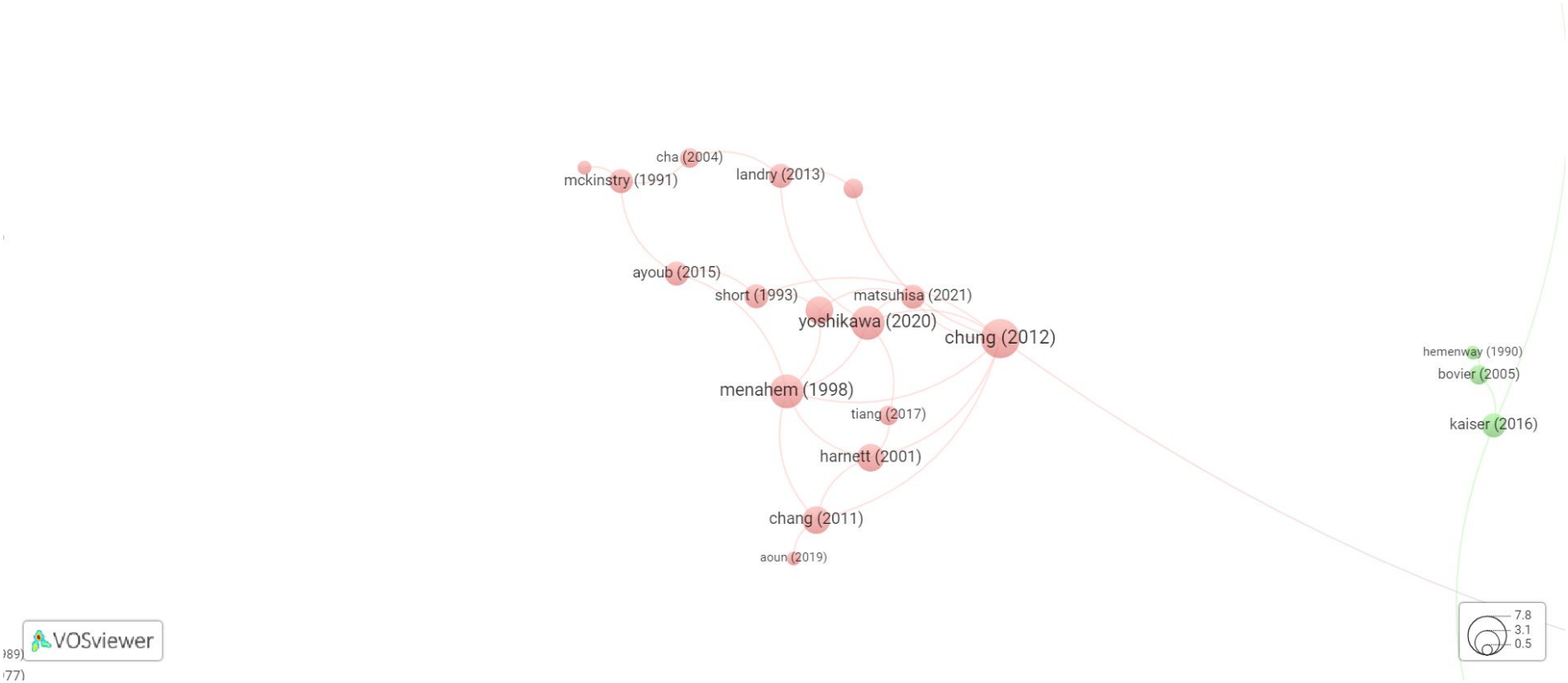
ang (2020)
zgliczyńska (2019)
paton (2019)

VOSviewer

Online


cha (2004)
mckinstry (1991)
landry (2013)
ayoub (2015)
short (1993)
matsuhisa (2021)
yoshikawa (2020)
chung (2012)
menahem (1998)
tiang (2017)
harnett (2001)
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hemenway (1990)
bovier (2005)
kaiser (2016)
VOSviewer
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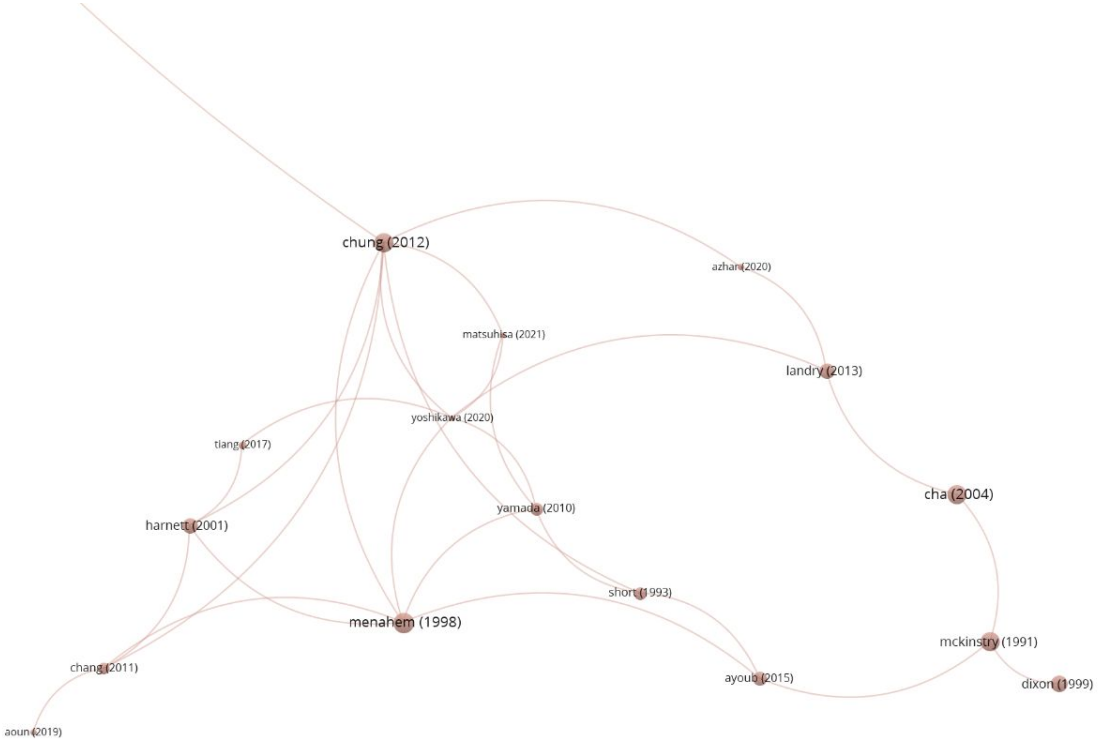
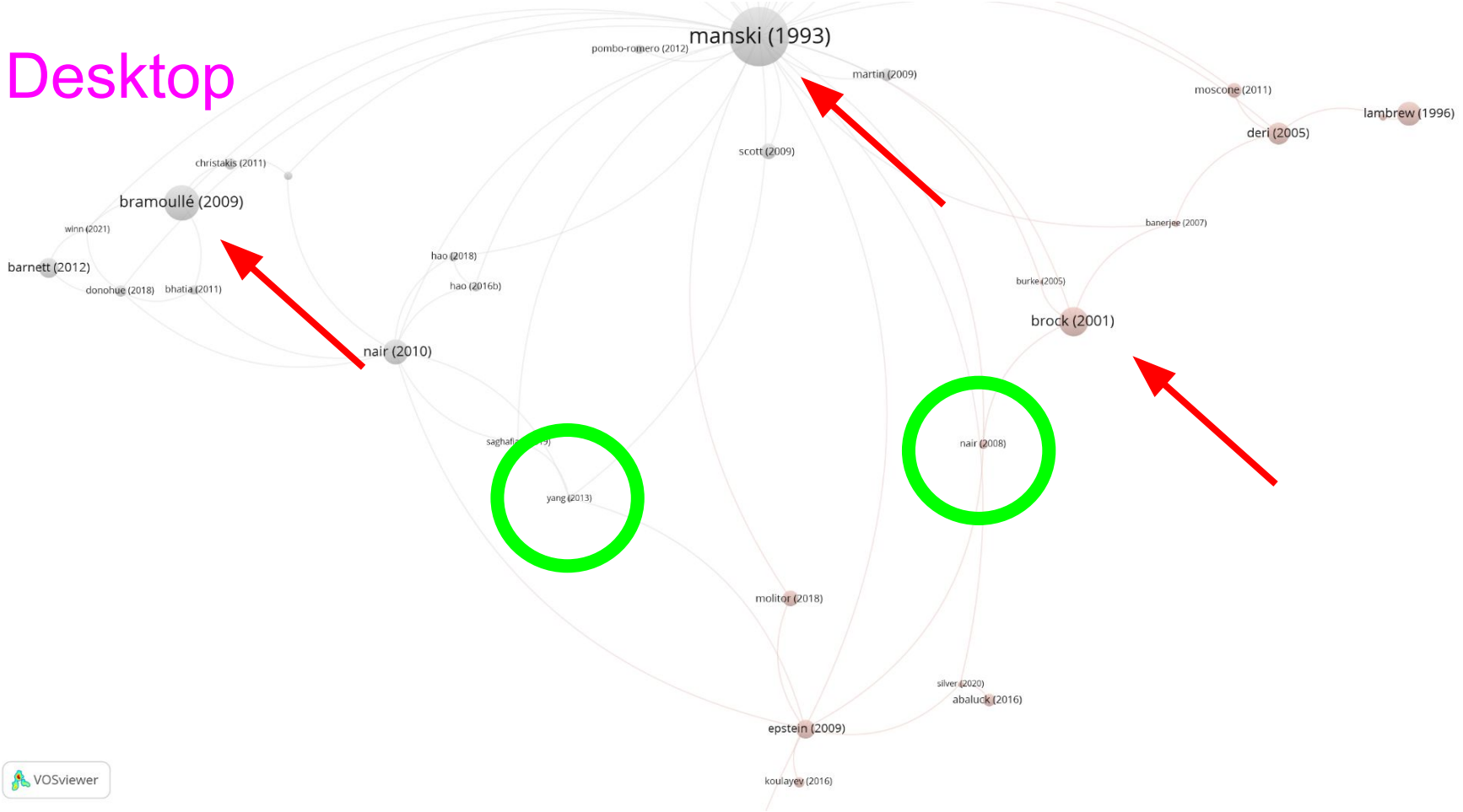
Desktop



VOSviewer

Desktop


manski (1993)
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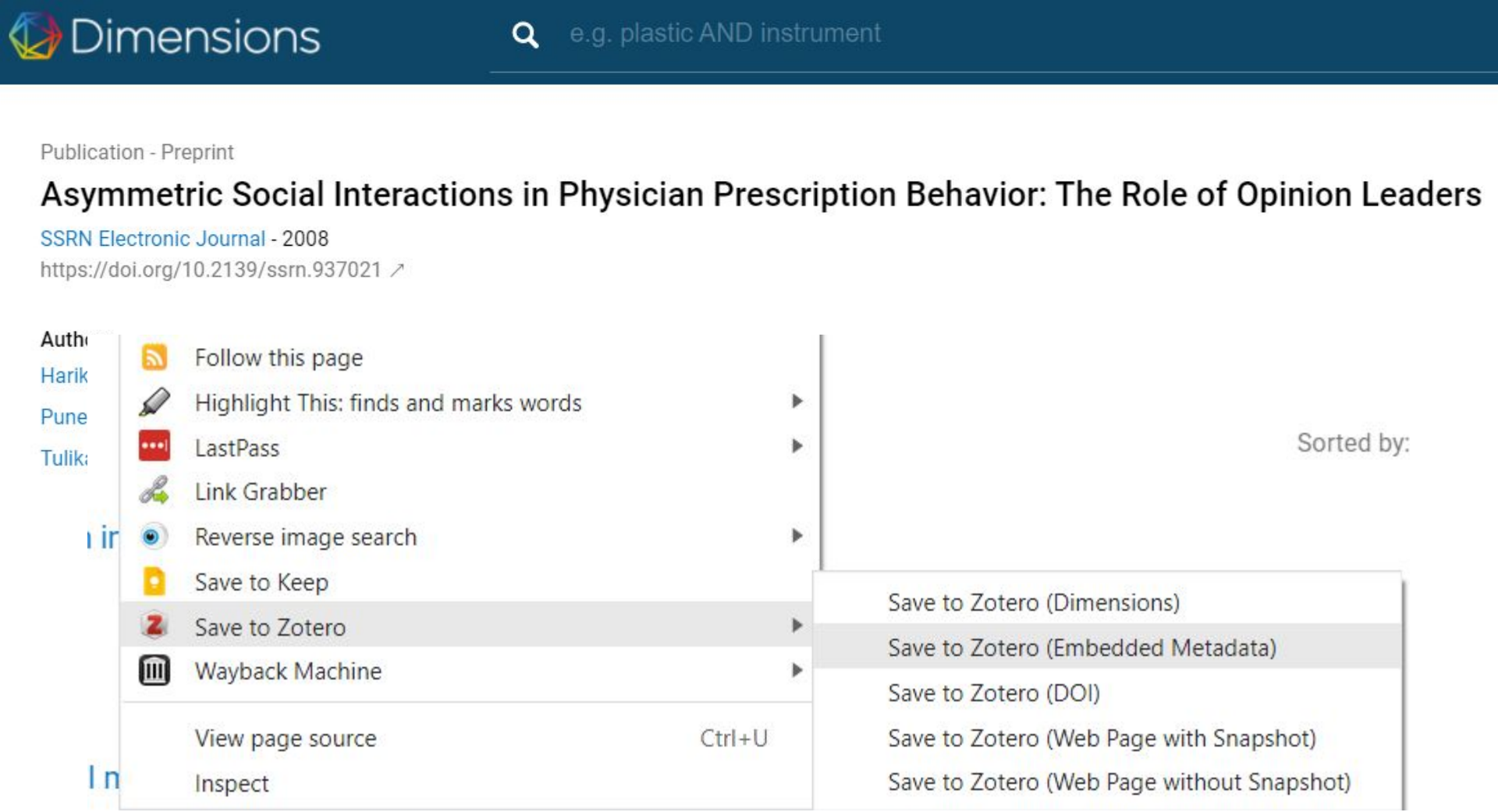
deri (2005)
scott (2009)
christakis (2011)
bramoullé (2009)
winn (2021)
barnett (2012)
donohue (2018)
bhatia (2011)
hao (2018)
hao (2016b)
banerjee (2007)
burke (2005)
brock (2001)
nair (2010)
nair (2008)
yang (2013)
molitor (2018)
silver (2020)
abaluck (2016)
epstein (2009)
koulayev (2016)
VOSviewer

Did not know about the cluster around

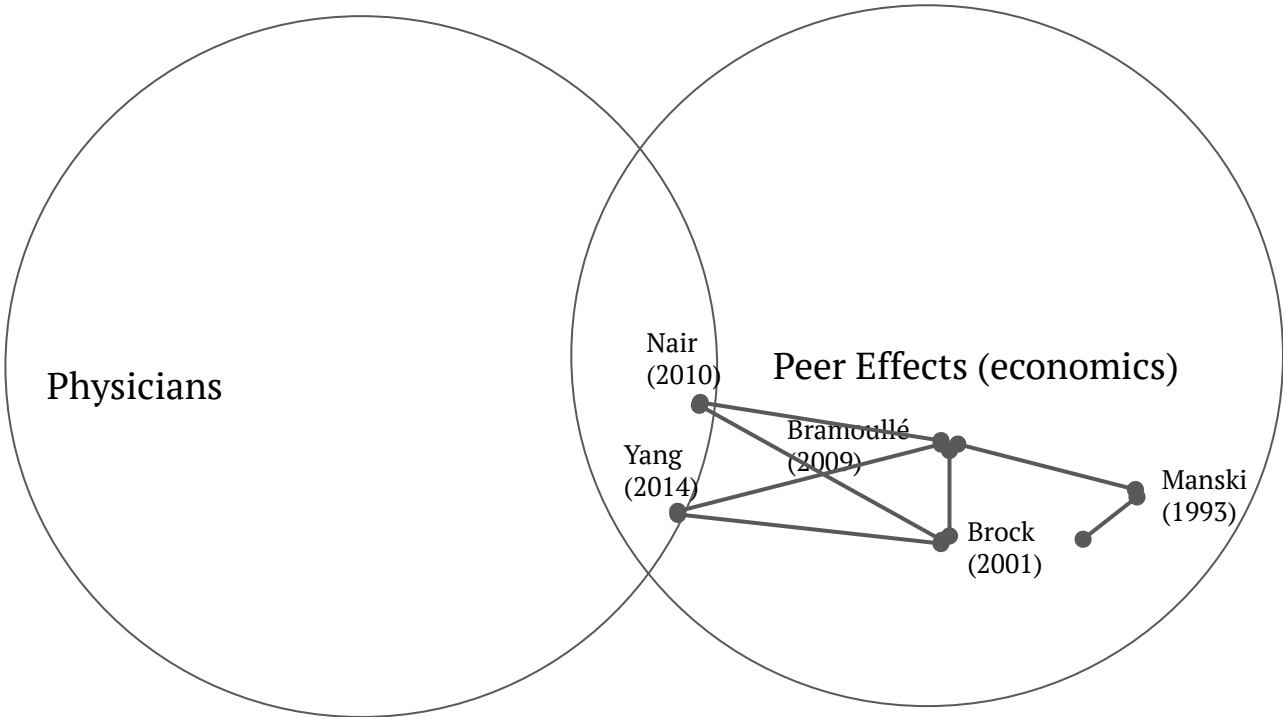
Nair, H. S., Manchanda, P., & Bhatia, T. (2010). Asymmetric Social Interactions in Physician Prescription Behavior: The Role of Opinion Leaders. *Journal of Marketing Research*, *47*(5), 883–895. https://doi.org/10.1509/jmkr.47.5.883

YANG, M., LIEN, H., & CHOU, S. (2014). IS THERE A PHYSICIAN PEER EFFECT? EVIDENCE FROM NEW DRUG PRESCRIPTIONS. *Economic Inquiry*, *52*(1), 116–137. https://doi.org/10.1111/ecin.12022

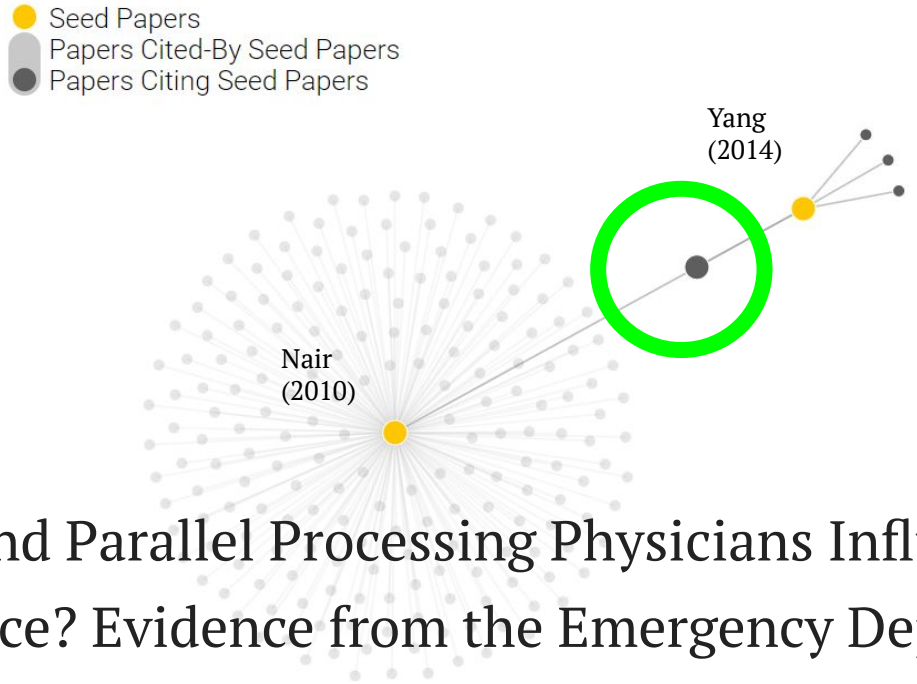

Dimensions
e.g. plastic AND instrument
Publication - Preprint
Asymmetric Social Interactions in Physician Prescription Behavior: The Role of Opinion Leaders
SSRN Electronic Journal - 2008
https://doi.org/10.2139/ssrn.937021
Auth
Harik
Pune
Tulik
Sorted by:
Follow this page
Highlight This: finds and marks words
LastPass
Link Grabber
Reverse image search
Save to Keep
Save to Zotero
Wayback Machine
View page source Ctrl+U
Inspect
Save to Zotero (Dimensions)
Save to Zotero (Embedded Metadata)
Save to Zotero (DOI)
Save to Zotero (Web Page with Snapshot)
Save to Zotero (Web Page without Snapshot)

What do I have now

I have some sense of what I do know



Quick View - Citation Gecko



Do Independent and Parallel Processing Physicians Influence Each Other's Performance? Evidence from the Emergency Department

Saghafian 2021

Save Image

citation gecko

Computers are dumb, People are smart

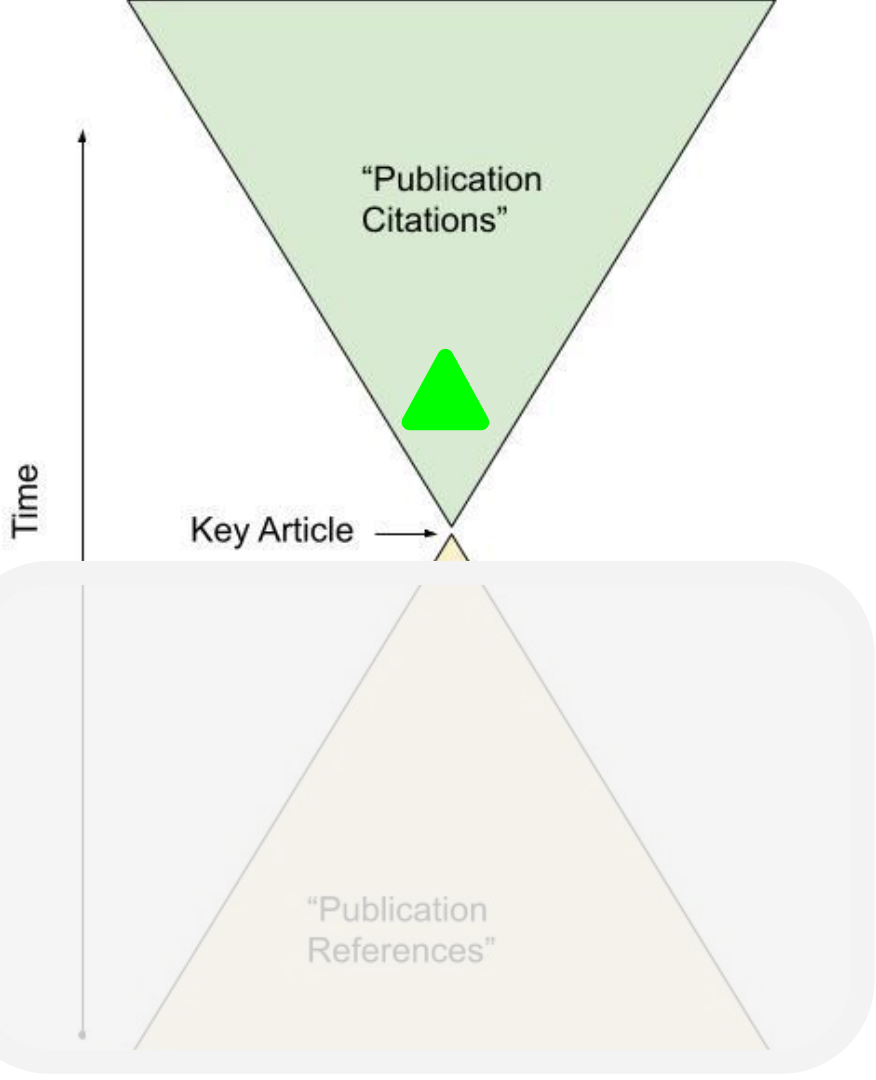
A database doesn’t always see the connection between ‘physician’ and ‘doctor’

A database *rarely* sees the connection between physician and nephrologist unless it’s explicitly in the code (ie PubMed)

Methods 3

Export all citations to Manski (1993), Brock (2001) and Bramoullé (2009) searched against for a complex string of synonyms* for ‘physician’ and specialties in Title and Abstract in Dimensions and map how authors

1. Cite Manski, Brock OR Bramoullé
2. Cite each other
3. 1 Citation, ONLY ~300 paper largest cluster


"Publication Citations"
Time
Key Article
"Publication References"

Methods 3

Export all citations to Manski (1993), Brock (2001) and Bramoullé (2009) searched against for a complex string of synonyms* for ‘physician’ and specialties in Title and Abstract in Dimensions and map how authors

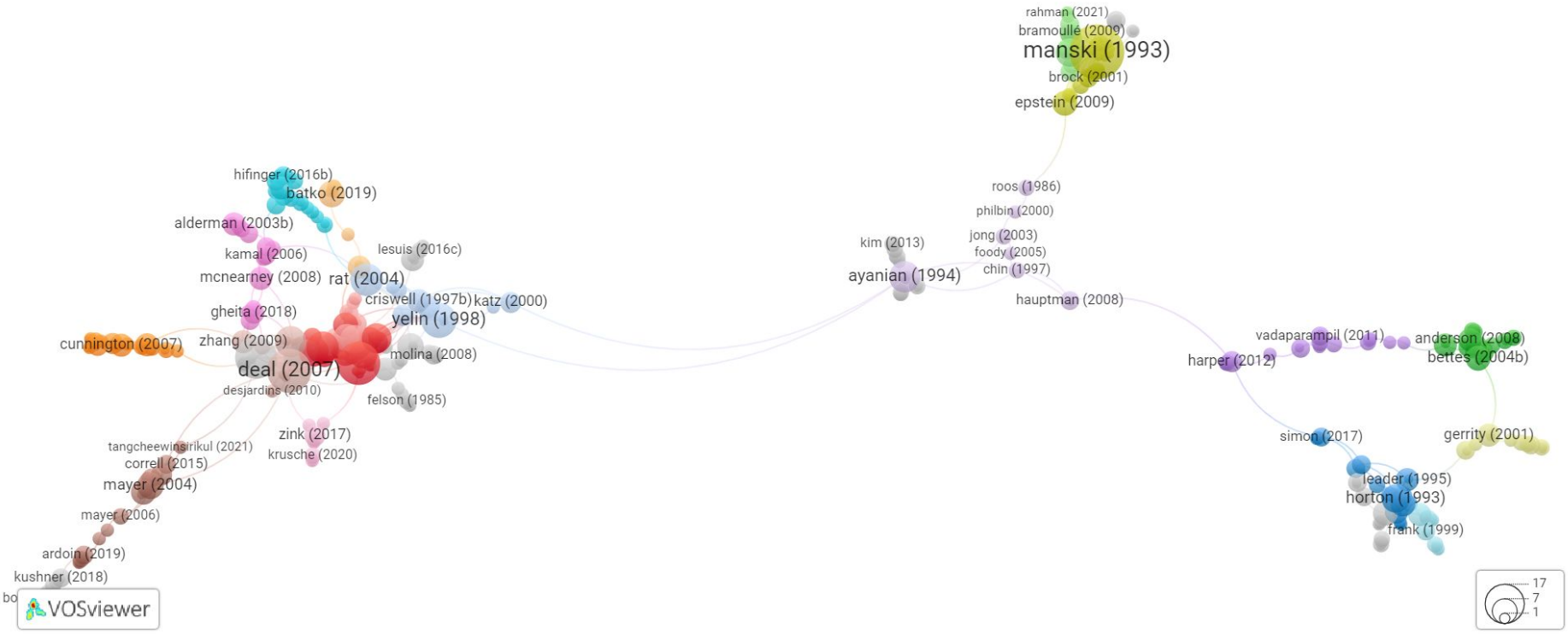
1. Cite Manski, Brock OR Bramoullé
2. Cite each other
3. 1 Citation, ONLY ~300 paper largest cluster

https://app.vosviewer.com/?json=https%3A%2F%2Fdrive.google.com%2Fuc%3Fid%3D1og88dPbUoInOu5YY8RrmBSQJ2jqmJlXb

[surgeon OR doctor OR physician OR clinician OR anesthesiologists OR anesthetist OR psychiatrist OR oncologist OR internist OR geriatrician OR cardiologist OR dermatologist OR Rheumatologist OR nephrologist OR neurologist OR radiologist OR respirologist OR rheumatologist OR paediatrician OR Endocrinologist OR pathologist OR neurosurgeon OR Gynecologist OR Obstetrician OR Ophthalmologist OR urologist OR Neuropathologist]

Thank you to Karen Lee for developing and maintaining this list

Online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philbin (2000)
jong (2003)
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chin (1997)
kim (2013)
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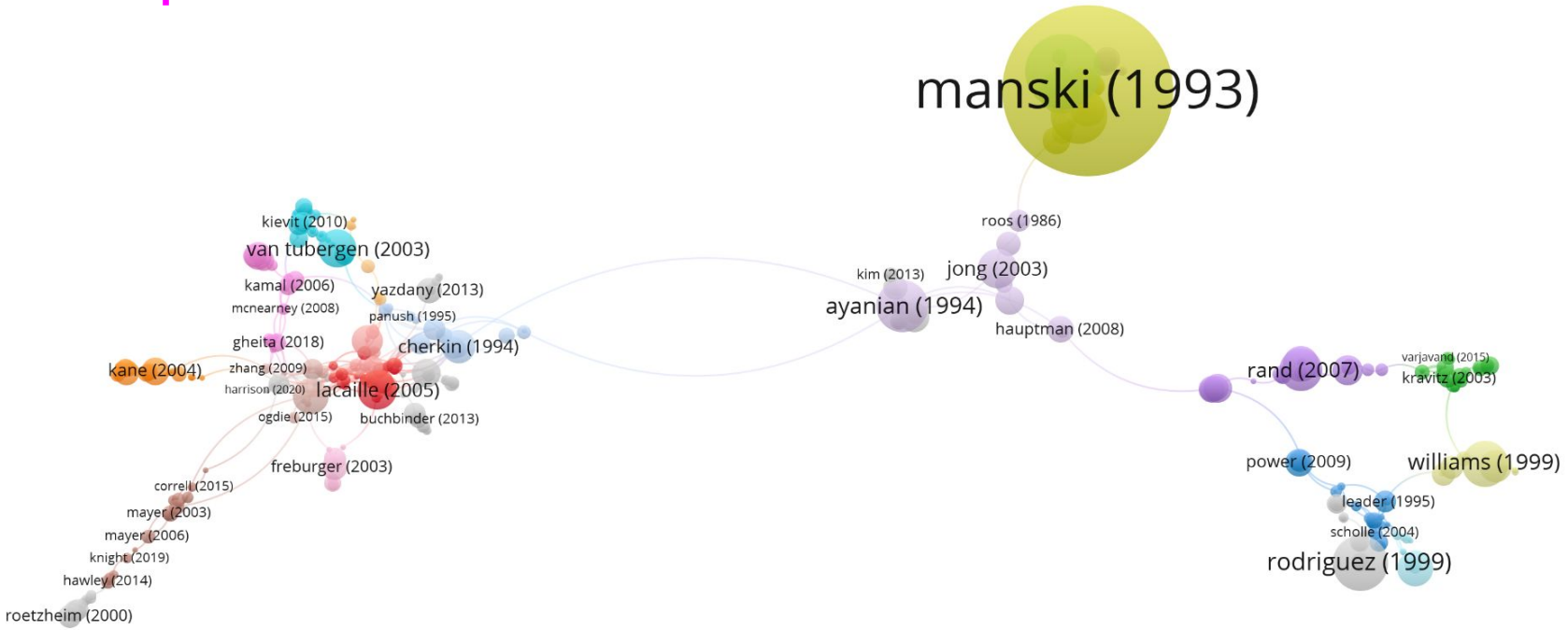
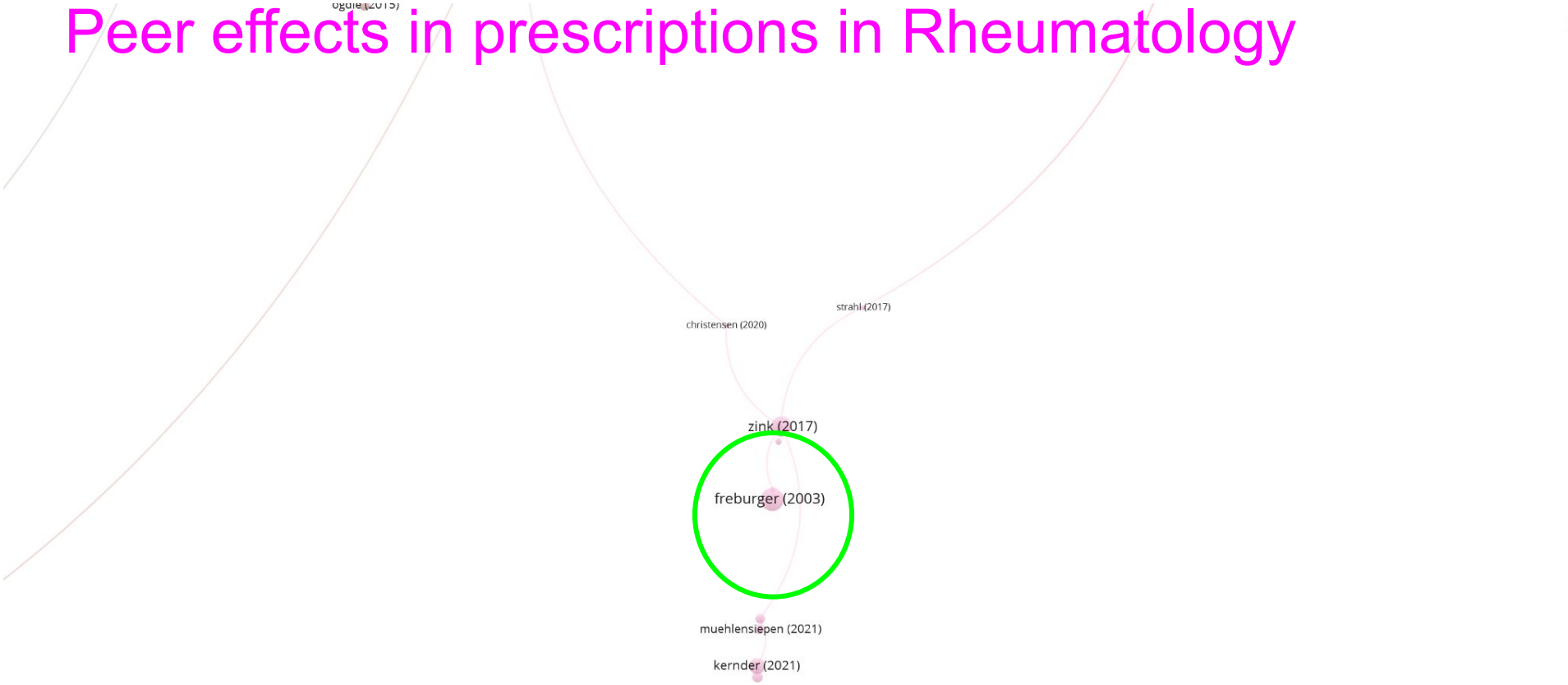
Desktop



VOSviewer

Peer effects in prescriptions in Rheumatology



VOSviewer

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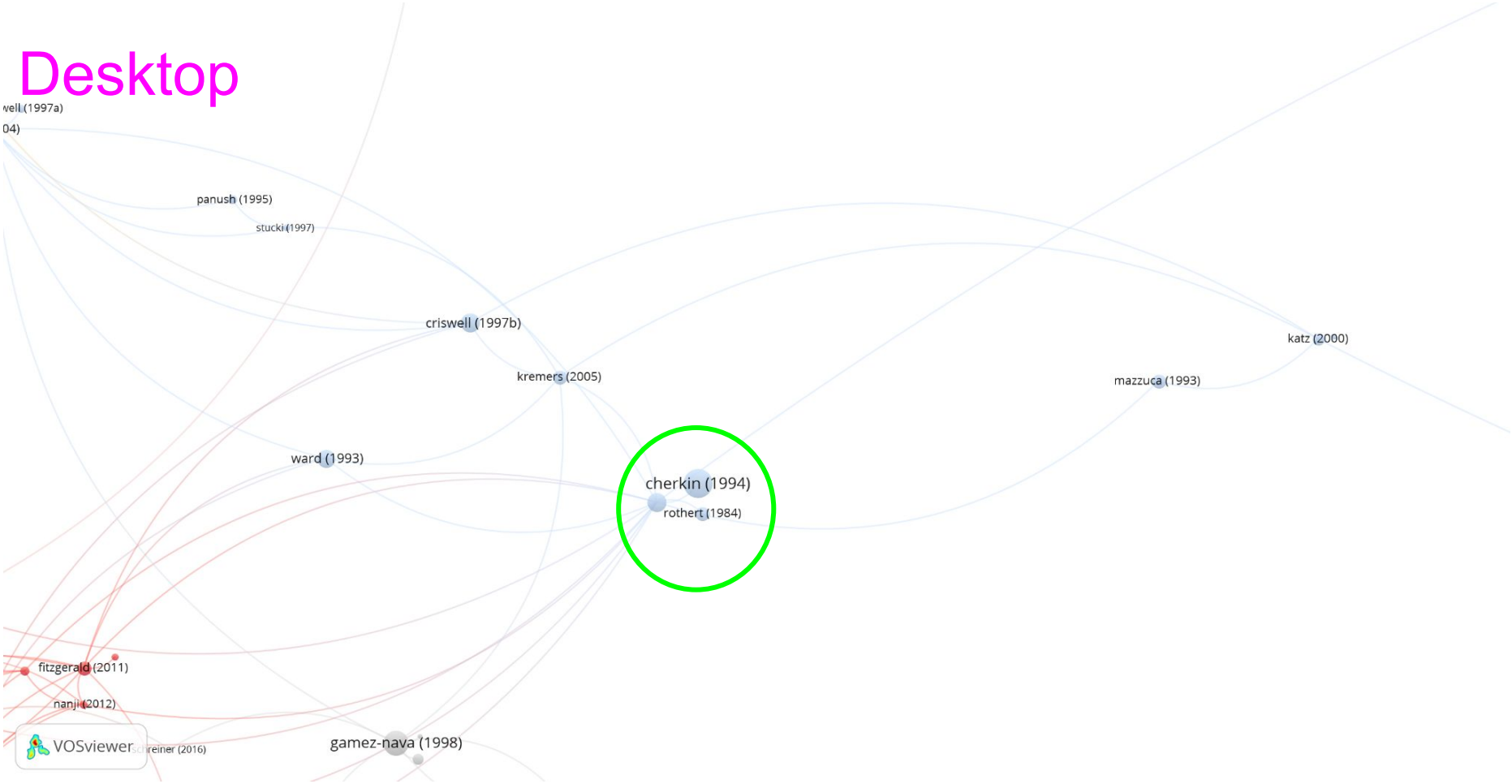
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katz (2000)
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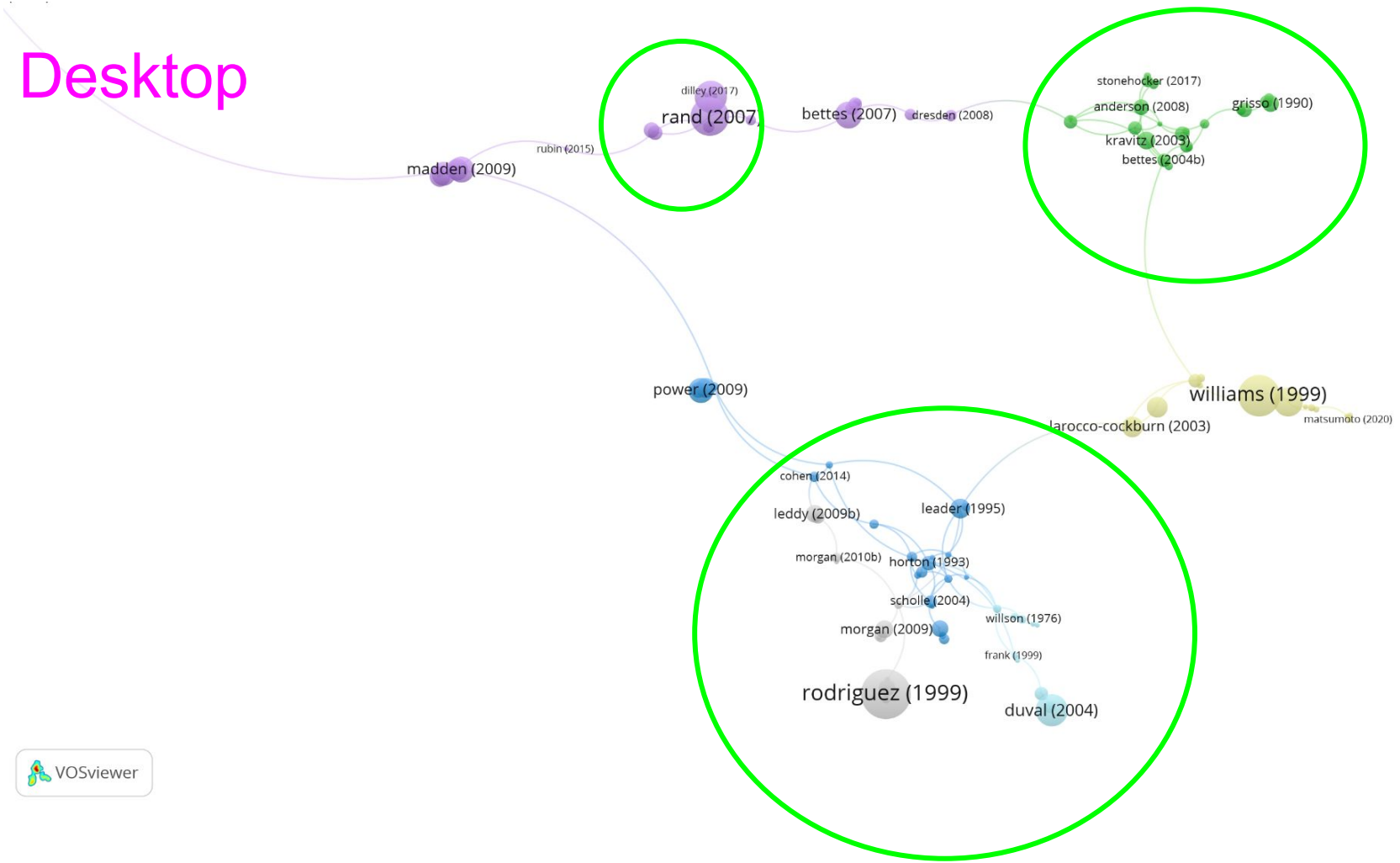
nanji (2012)
VOSviewer
reiner (2016)
gamez-nava (1998)

Desktop



VOSviewer

How did I know when to stop searching?

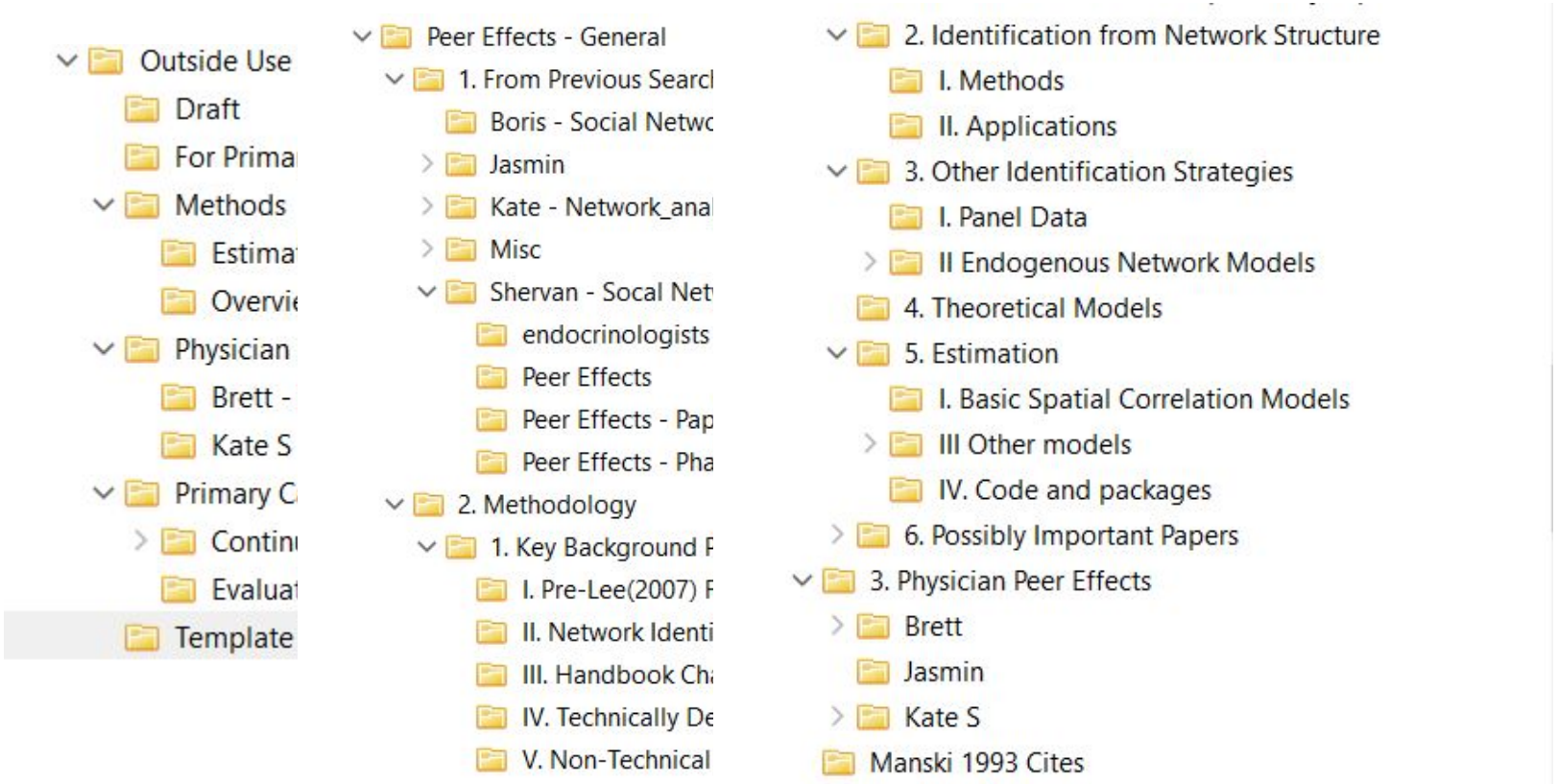
Lots of complicated connections, a couple of unique clusters.

Manski, Bramoullé and Brock are central this area.

Repeat articles

Using Highlight This to identify articles already saved

Outcome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Peer Effects - Pha
2. Methodology
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I. Pre-Lee(2007) F
II. Network Identi
III. Handbook Cha
IV. Technically De
V. Non-Technical
2. Identification from Network Structure
I. Methods
II. Applications
3. Other Identification Strategies
I. Panel Data
II Endogenous Network Models
4. Theoretical Models
5. Estimation
I. Basic Spatial Correlation Models
III Other models
IV. Code and packages
6. Possibly Important Papers
3. Physician Peer Effects
Brett
Jasmin
Kate S
Manski 1993 Cites

Citation Gecko Limits

Not great on accuracy before about 2002-2003. None of Manski's bibliography of papers are in the 1993 paper's metadata, only citations to the Manski 1993 paper

US/Canada/Western Europe

Less accurate

Dimensions Limits

Not great on accuracy before about 2002-2003. None of Manski's bibliography of papers are in the 1993 paper's metadata, only citations to the Manski 1993 paper

Coverage is only Sciences (good) and Social Sciences (average)

US/Canada/Europe/China/Japan

VOS Viewer Limits

In active development

Moving beyond default color & layout is highly technical

Only works with Web of Science and Dimensions data for citation mapping.

Co-author, co-citation and other text-mining functions only work well on massive data sets

Garbage In, Garbage Out

Key Tools For The Search Process

- **Zotero** - Centralize collection and export results in BibTex & CSV
  - Scite Plugin
  - DOI Manager
- **Citation Gecko** - Quick Mapping (less accurate)
  - Zotero export in BibTex format
- **Dimensions** - Free access to mapping data with a verified university email address
- **VOSViewer** - Accurate Map (More accurate, more complicated)
- **Custom Formatting Tools** to speed up search strategy
  - Google Sheets
- **Chrome Plugins**
  - LinkGrabber - grabs direct links to sites for later processing
  - HighlightThis - Lists of DOIs to spot key articles
  - OpenMultipleURLs - Does what it says on the label
  - Unpaywall - Another way to grab PDFs
  - Scite

Tools & techniques detailed here

Williams, B. (2020). Dimensions & VOSViewer Bibliometrics in the Reference Interview. *The Code4Lib Journal*, *47*. https://journal.code4lib.org/articles/14964

The VOSviewer software provides easy access to bibliometric mapping using data from Dimensions, Scopus and Web of Science. The properly formatted and structured citation data, and the ease in which it can be exported open up new avenues for use during citation searches and reference interviews. This paper details specific techniques for using advanced searches in Dimensions, exporting the citation data, and drawing insights from the maps produced in VOS Viewer. These search techniques and data export practices are fast and accurate enough to build into reference interviews for graduate students, faculty, and post-PhD researchers. The search results derived from them are accurate and allow a more comprehensive view of citation networks embedded in ordinary complex boolean searches.

OMA Ontario Medical Association

Thank you.

@BrettLWilliams on Twitter

brett.williams@oma.org

oma.org