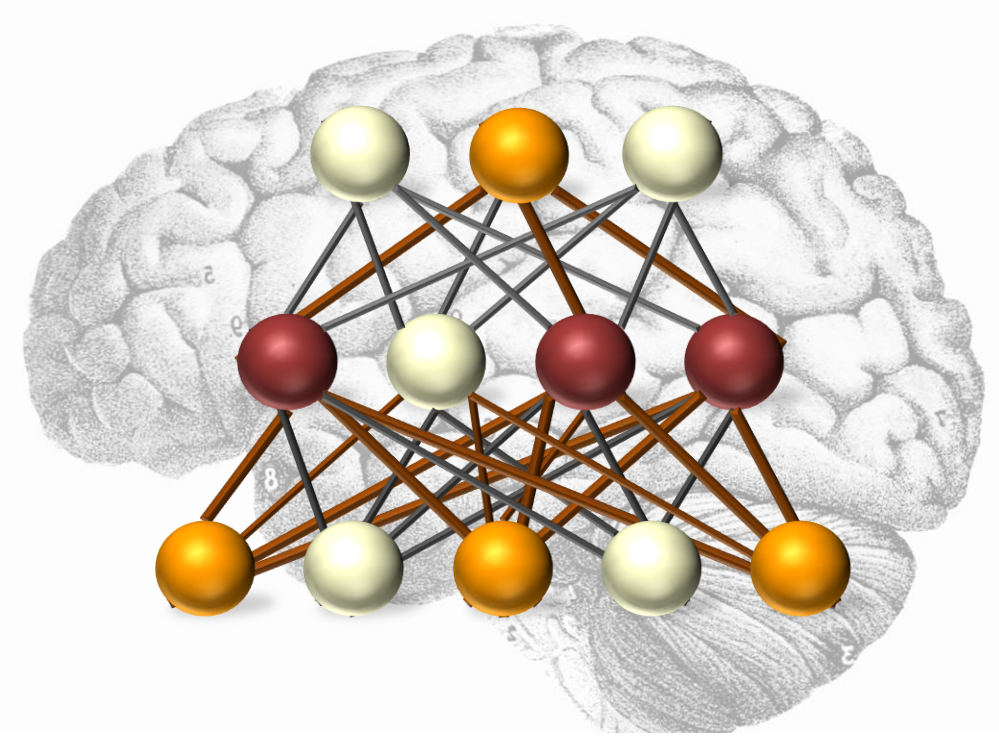
Research Paper Writing

Crafting Your References

Alianna J. Maren, Ph.D.



AI
After Hours

with

Alianna J. Maren, Ph.D.

What Happens If You DON’T

Shows lack of attention to detail

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Maybe your technical work is also not careful

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Shows lack of attention to detail

Maybe your technical work is also not careful

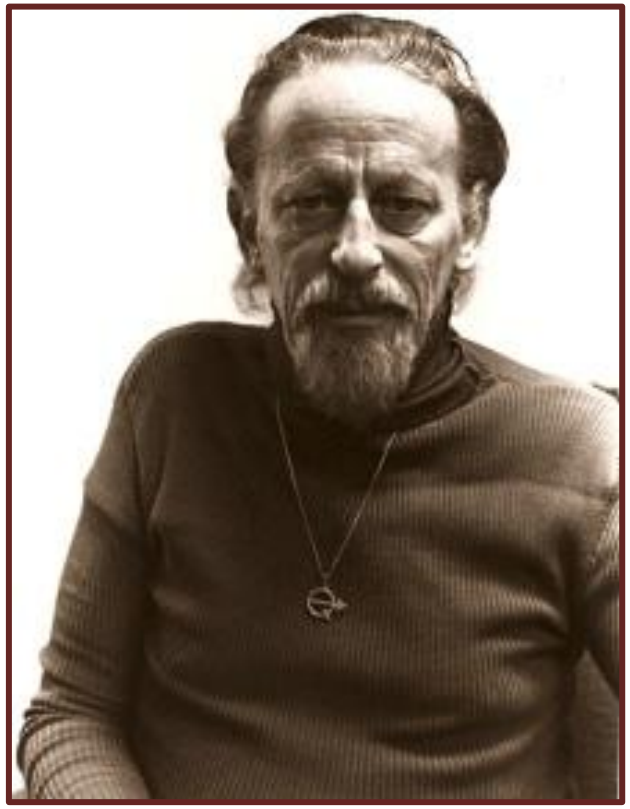
Reject!!!

Sturgeon's Law

It is in this vein that I repeat Sturgeon's Revelation, which was wrung out of me after twenty years of wearying defense of science fiction against attacks of people who used the worst examples of the field for ammunition, and whose conclusion was that ninety percent of SF is crud.

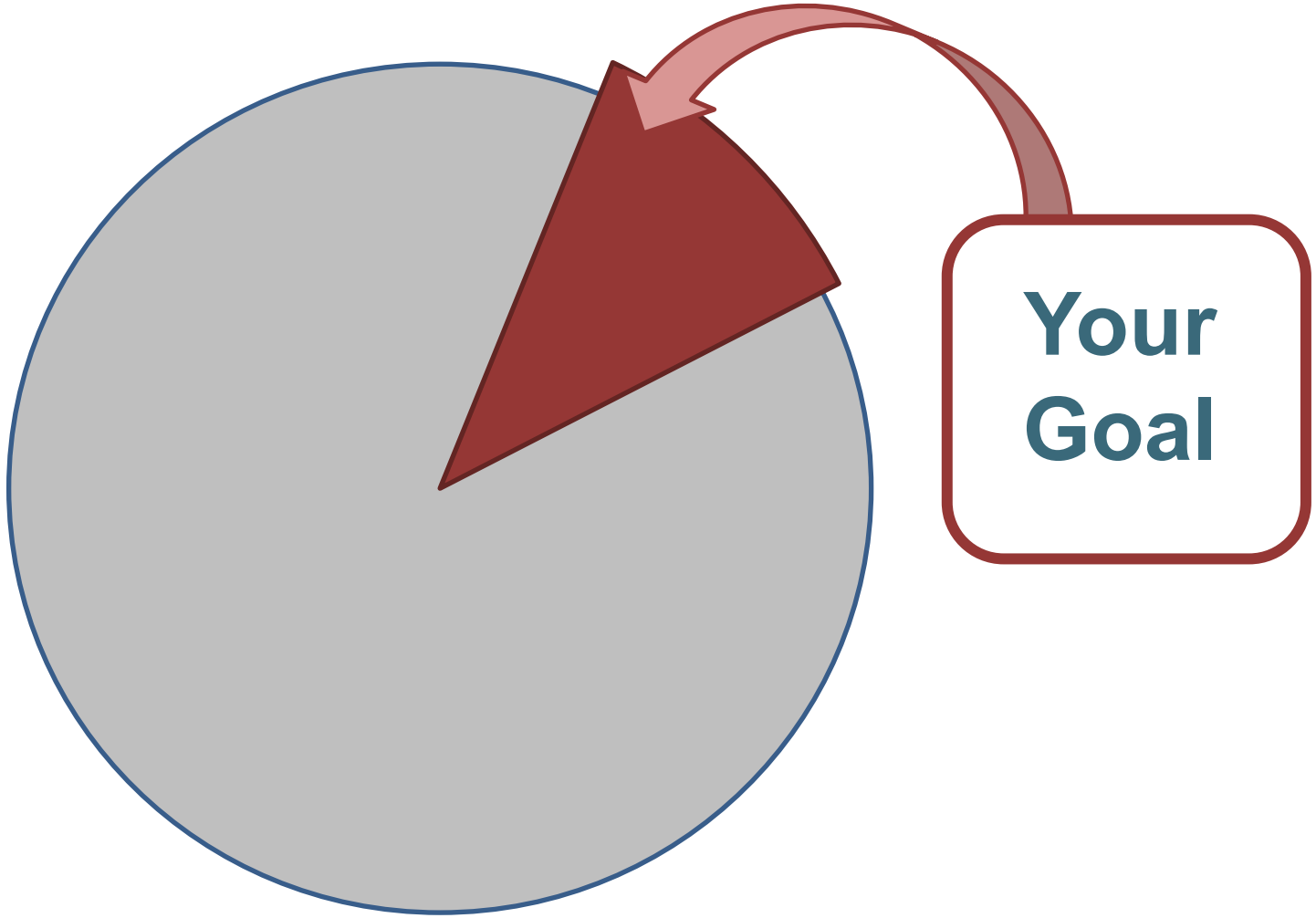
The Revelation:

Ninety percent of *everything* is crud.



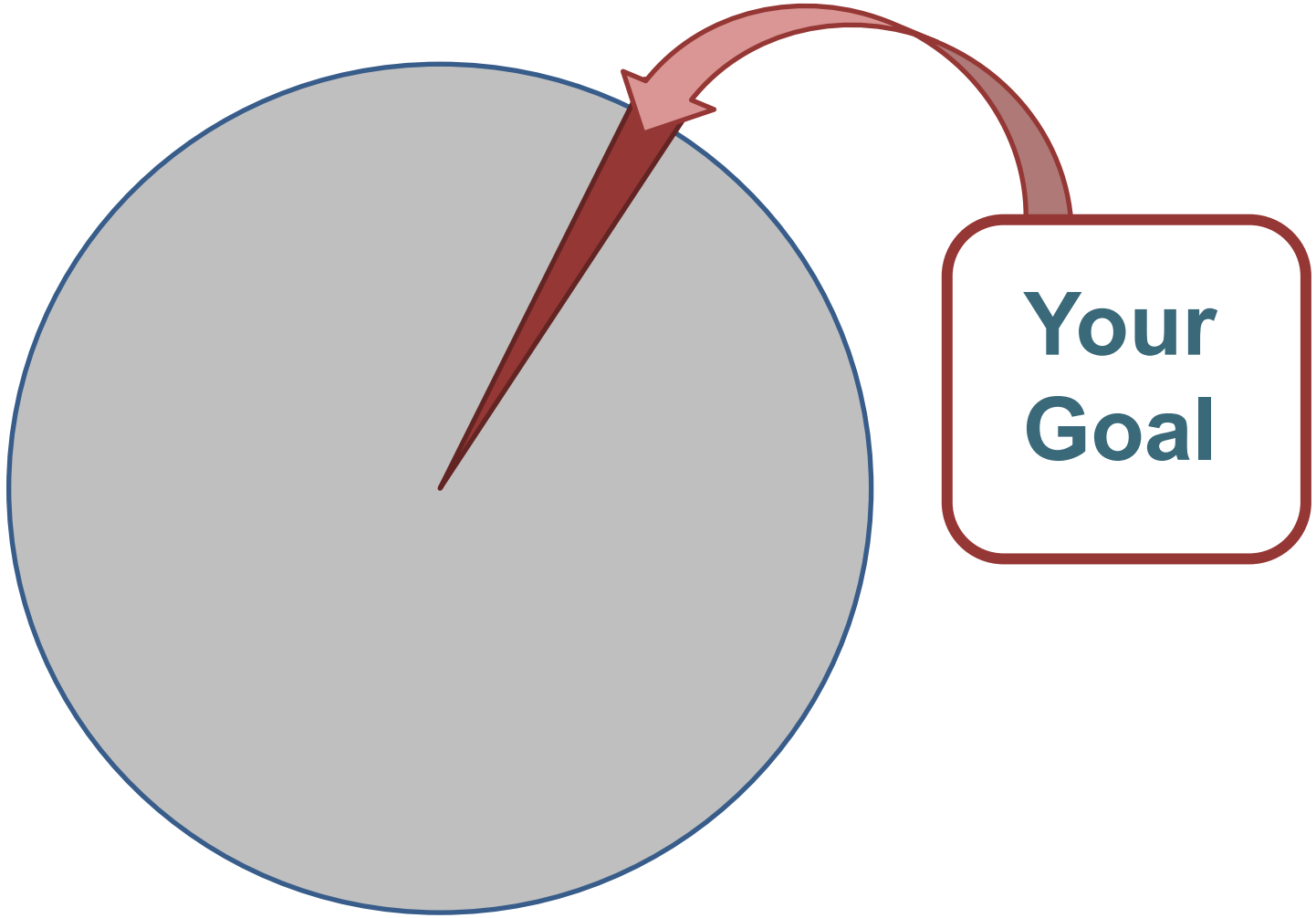
March 1958 issue of *Venture*

Sturgeon's Law



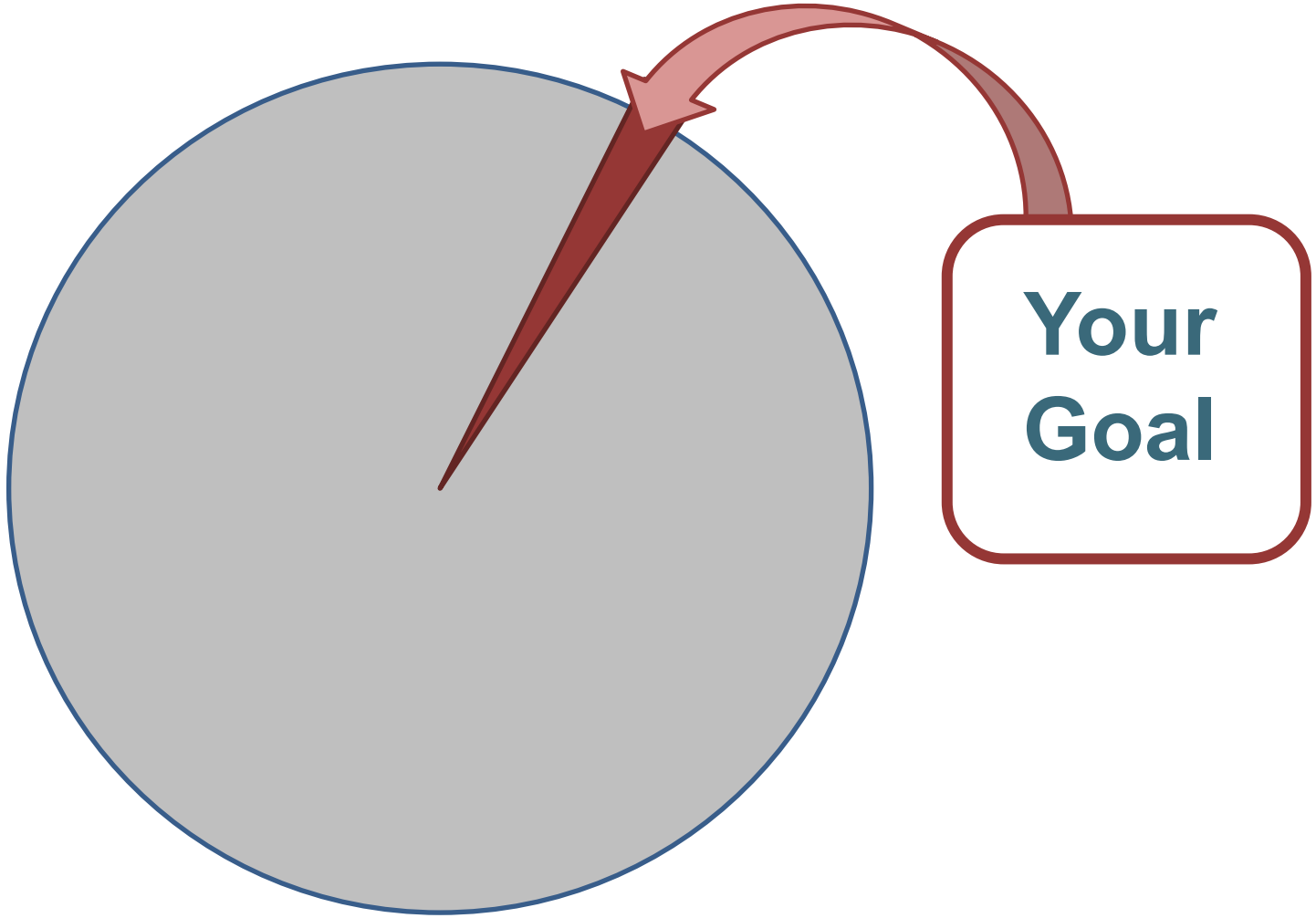
Actually, Be in the Top 1%

- ✓ More productions than ever before



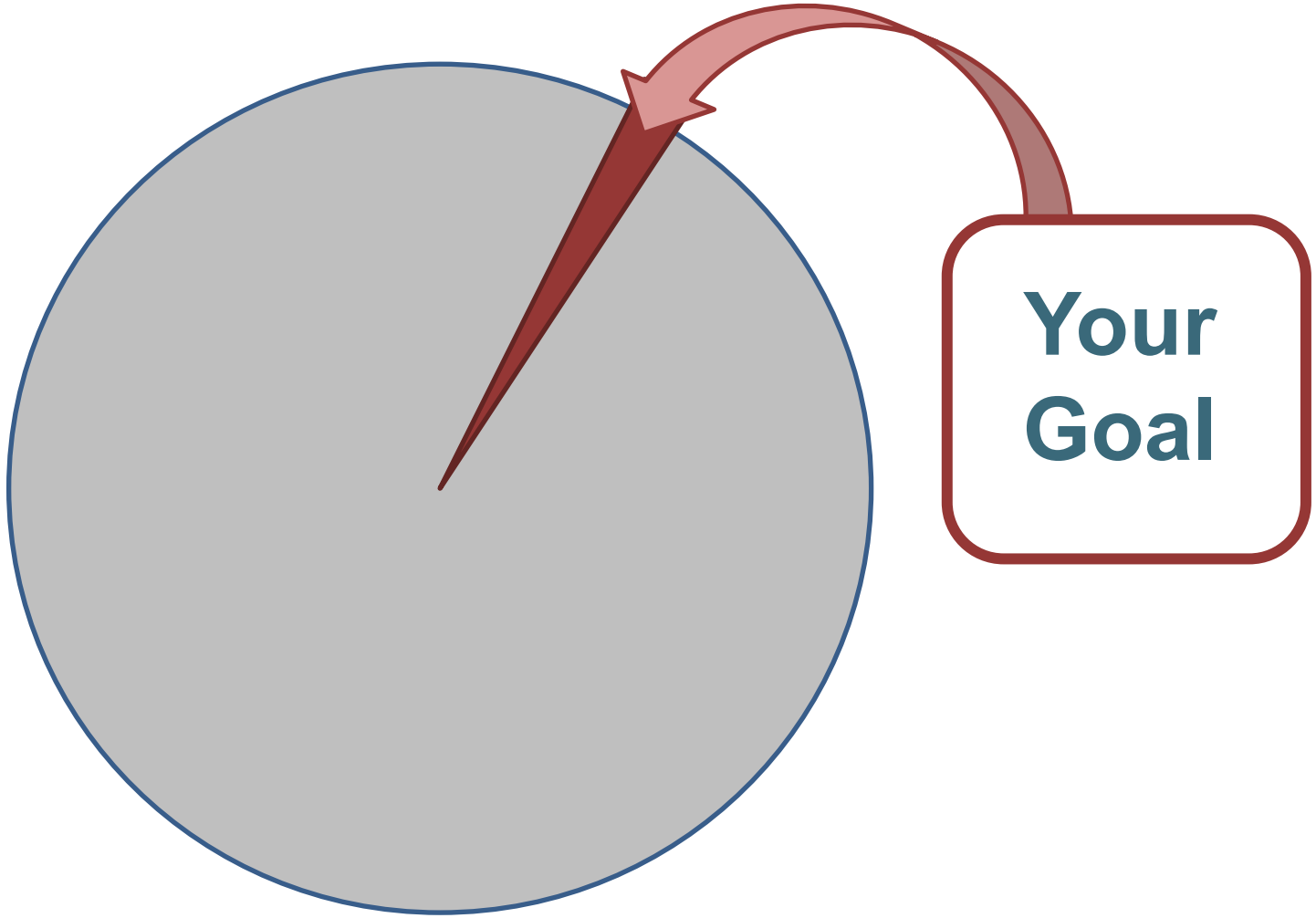
Actually, Be in the Top 1%

- ✓ More productions than ever before
- ✓ **More distractions**



Actually, Be in the Top 1%

- ✓ More productions than ever before
- ✓ More distractions
- ✓ **Everyone is tired**



Your References Show Your Social Community

Three Key Factors

In Reference Selection

1. Community Respect

Three Key Factors

In Reference Selection

1. *Community Respect*
2. **Publication Source**

Three Key Factors

In Reference Selection

1. *Community Respect*
2. *Publication Source*
3. **Recency**

Key Factor 1: Community Respect

Look for the work that has the *most citations*

Key Factor 2: Publication Source

From Weakest to Strongest:

- *Blogpost or Other Private Publication*

- *Institutional Tech Report*

- *arXiv Preprint*

- *Conference presentation (depends on the conference)*

- *Journal article*

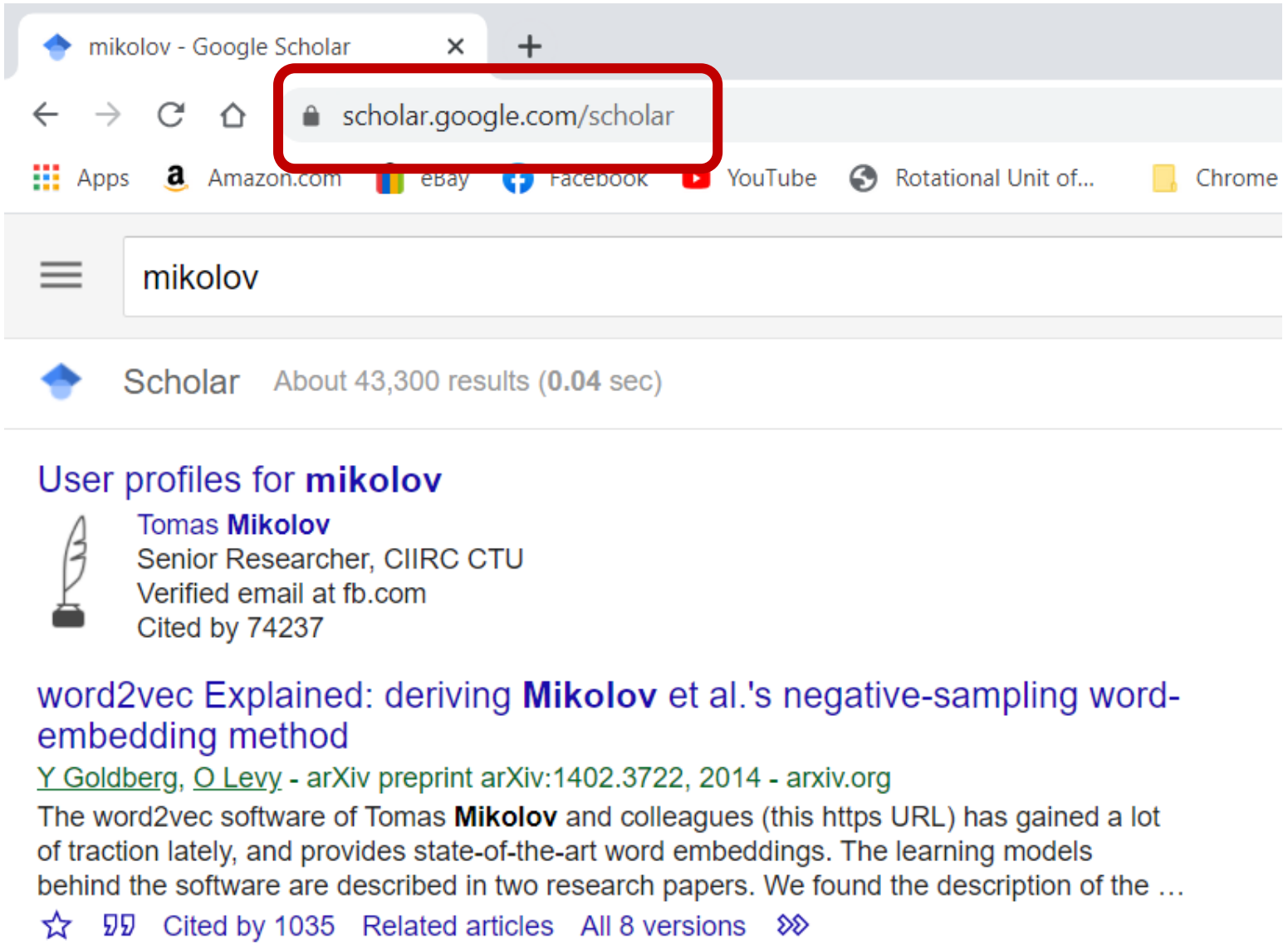
Key Factor 3: Recency

The More Recent, the Better!

- ***This year – you're up-to-date!***
- ***Within past two years – you're covering recent impacts***
- ***Much older – needs to be either:***
  - ***Highly cited/influential OR***
  - ***Essential to your work/thinking***

Example (Step 1 of 5):

Tomas Mikolov's Invention of Word2Vec

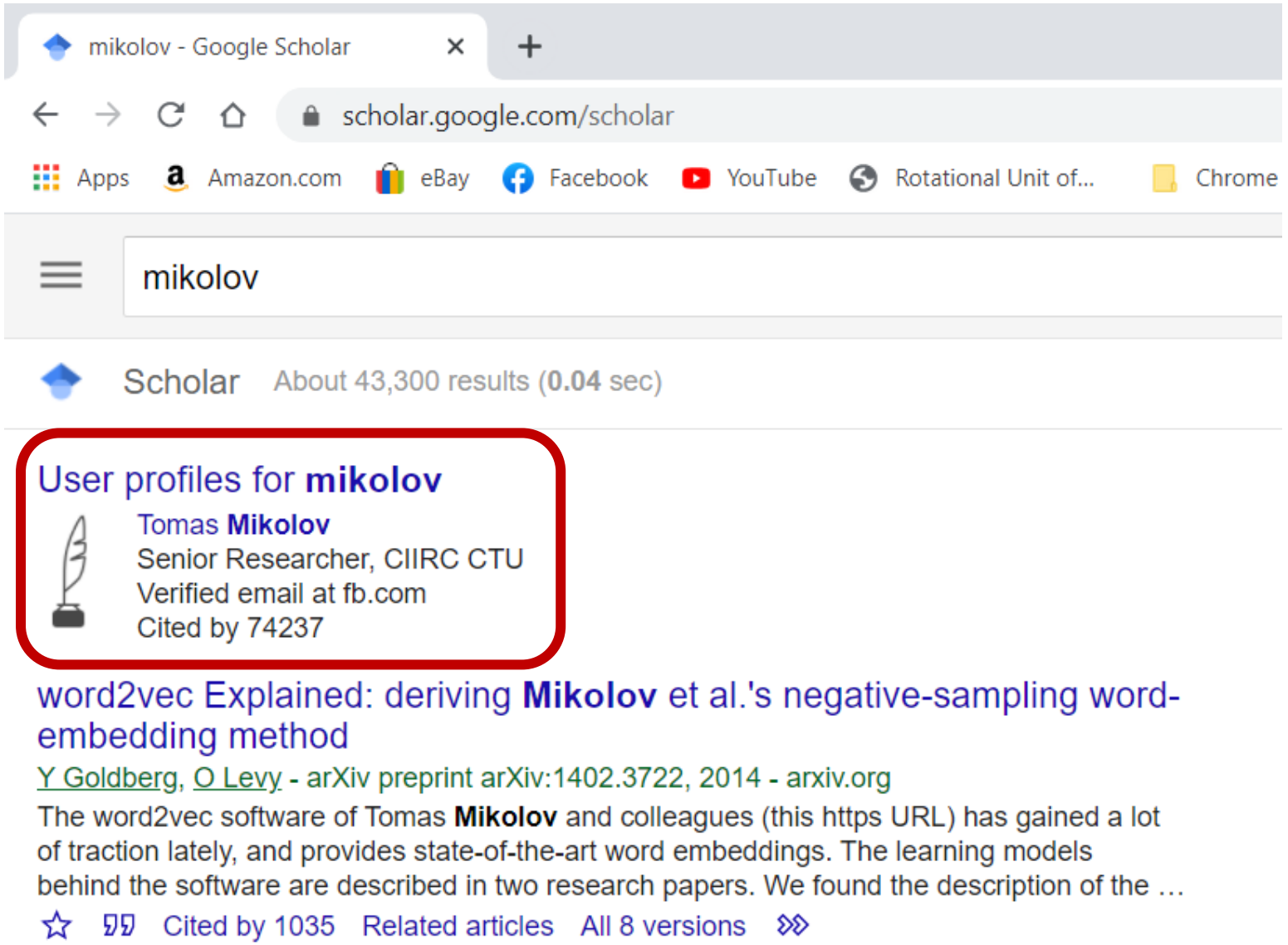


Step 1:

Google.com/scholar

Example (Step 2a of 5):

Tomas Mikolov's Invention of Word2Vec

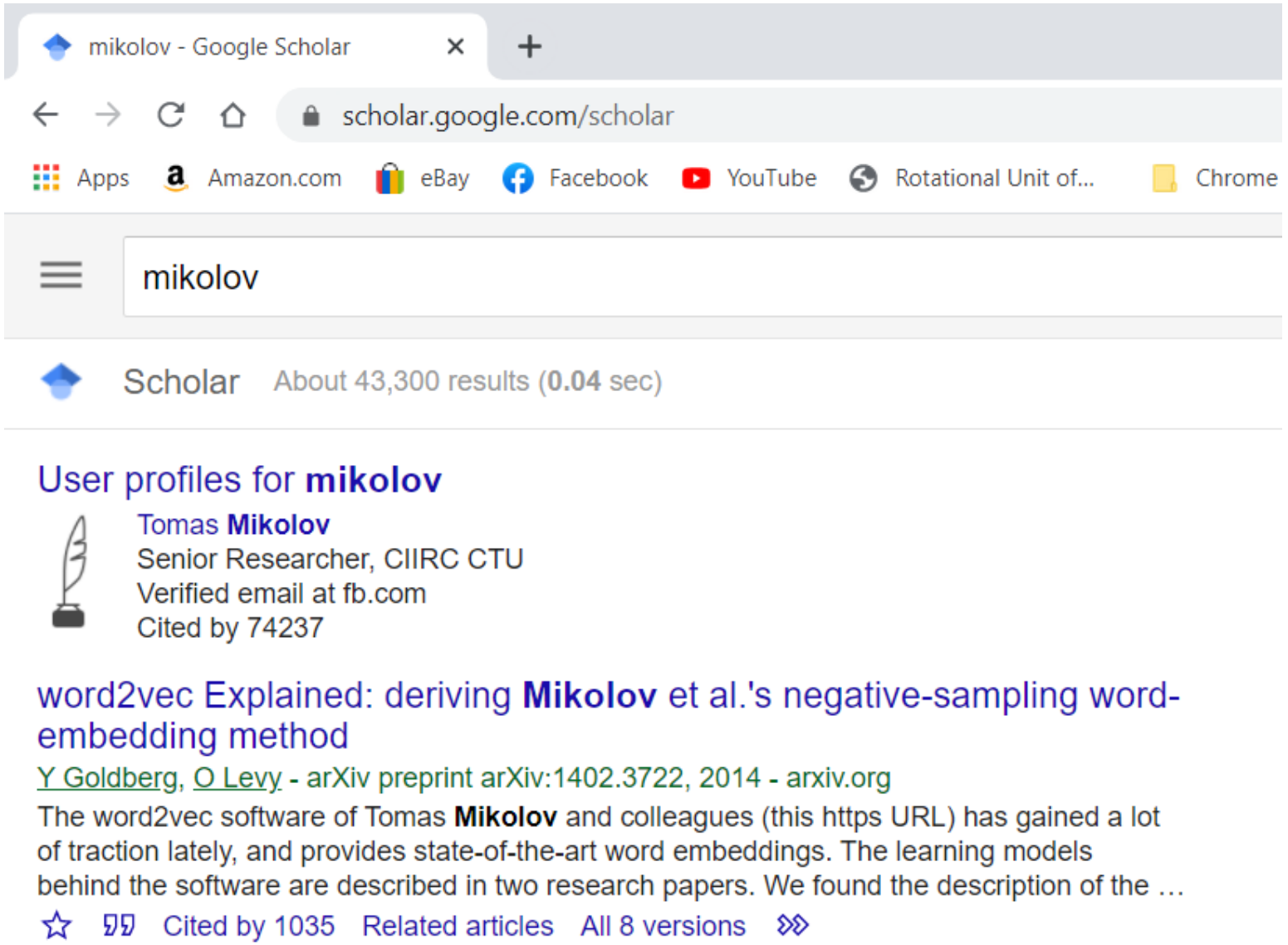


Step 2:

Find your person

Example (Step 2b of 5):

Thomas Mikolov's Invention of Word2Vec

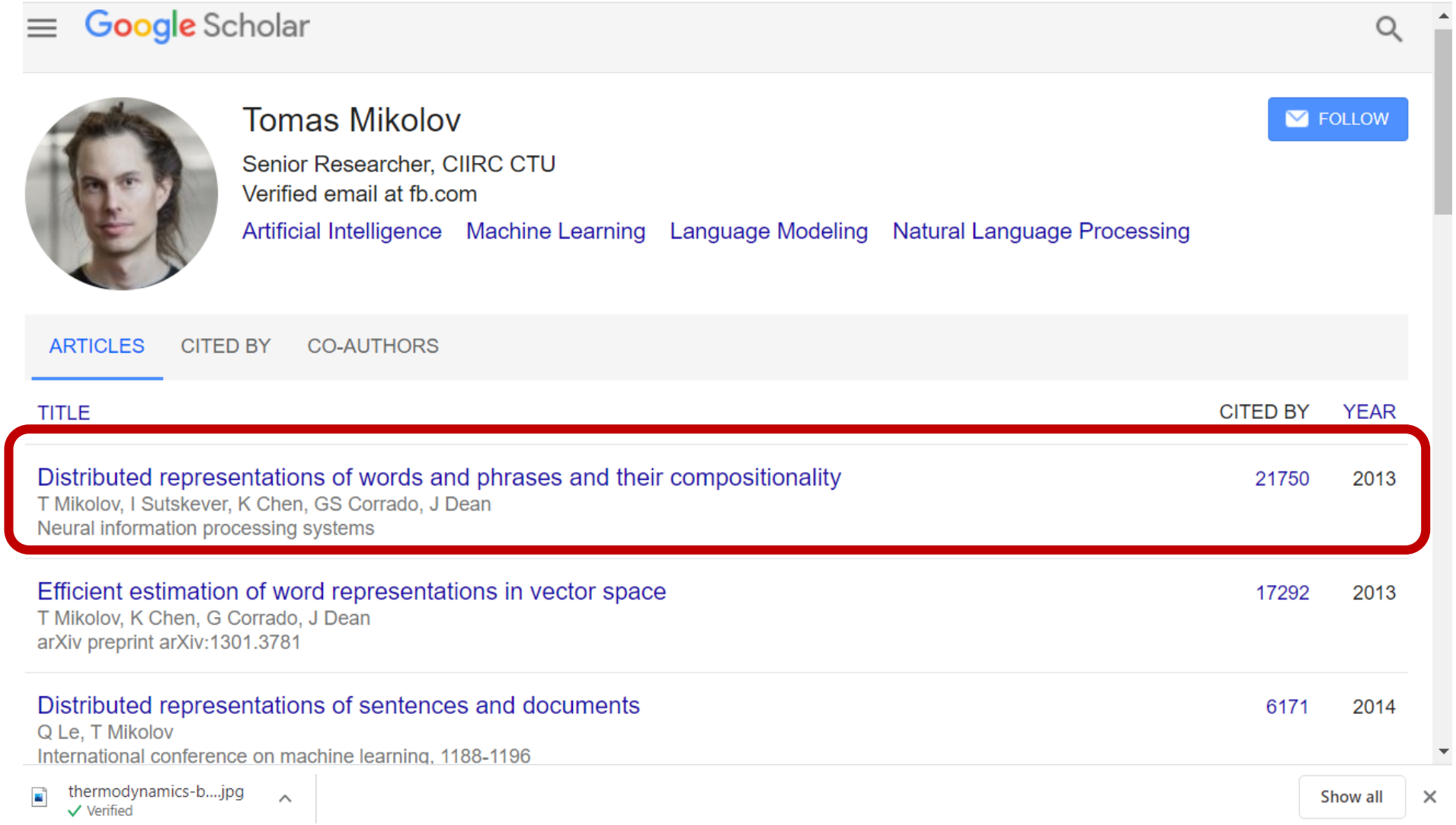


Google.com/scholar

You'll find articles BY the author and also MENTIONING the author

Example (Step 3 of 5):

Tomas Mikolov's Invention of Word2Vec



Step 3:

Find candidate article

Example (Step 4 of 5):

Tomas Mikolov's Invention of Word2Vec

TITLE	CITED BY	YEAR
Distributed representations of words and phrases and their compositionality T Mikolov, I Sutskever, K Chen, GS Corrado, J Dean Neural information processing systems	21750	2013

Step 4: Check article against criteria

- ✓ Elite conference presentation
- ✓ Very high citation count (> 20K)
- ✓ Initiating presentation - one of the earliest introductions of this method

Example (in Chicago Style) (Step 5 of 5):

Finally: Format Your Reference Correctly

Enriching word vectors with subword information 3978 2017
P Bojanowski, E Grave, A Joulin, T Mikolov
Transactions of the Association for Computational Linguistics 5, 135-146

Chicago Style:

Bojanowski, Piotr, Edouard Grave, Armand Joulio, and Tomas Mikolov. "Enriching Word Vectors with Subword Information." *Transactions of the Association for Computational Linguistics 5, no. 1* (July 2016): 135-146. doi:10.1162/tacl_a_00051.

Example – One More Step:

Is There a Very Recent Publication by Same Author?

Enriching word vectors with subword information P Bojanowski, E Grave, A Joulin, T Mikolov Transactions of the Association for Computational Linguistics 5, 135-146	3978	2017

Go One Step Beyond:

Look for more recent:

- ✓ Journal publication
- ✓ High citation count (almost 4K)
- ✓ More recent work (2017 vs. 2013)

What I Learned from Daddy

Edward J. O'Reilly, Ph.D.

Read at Least the Following:

- ✓ Abstract
- ✓ Introduction
- ✓ Conclusions

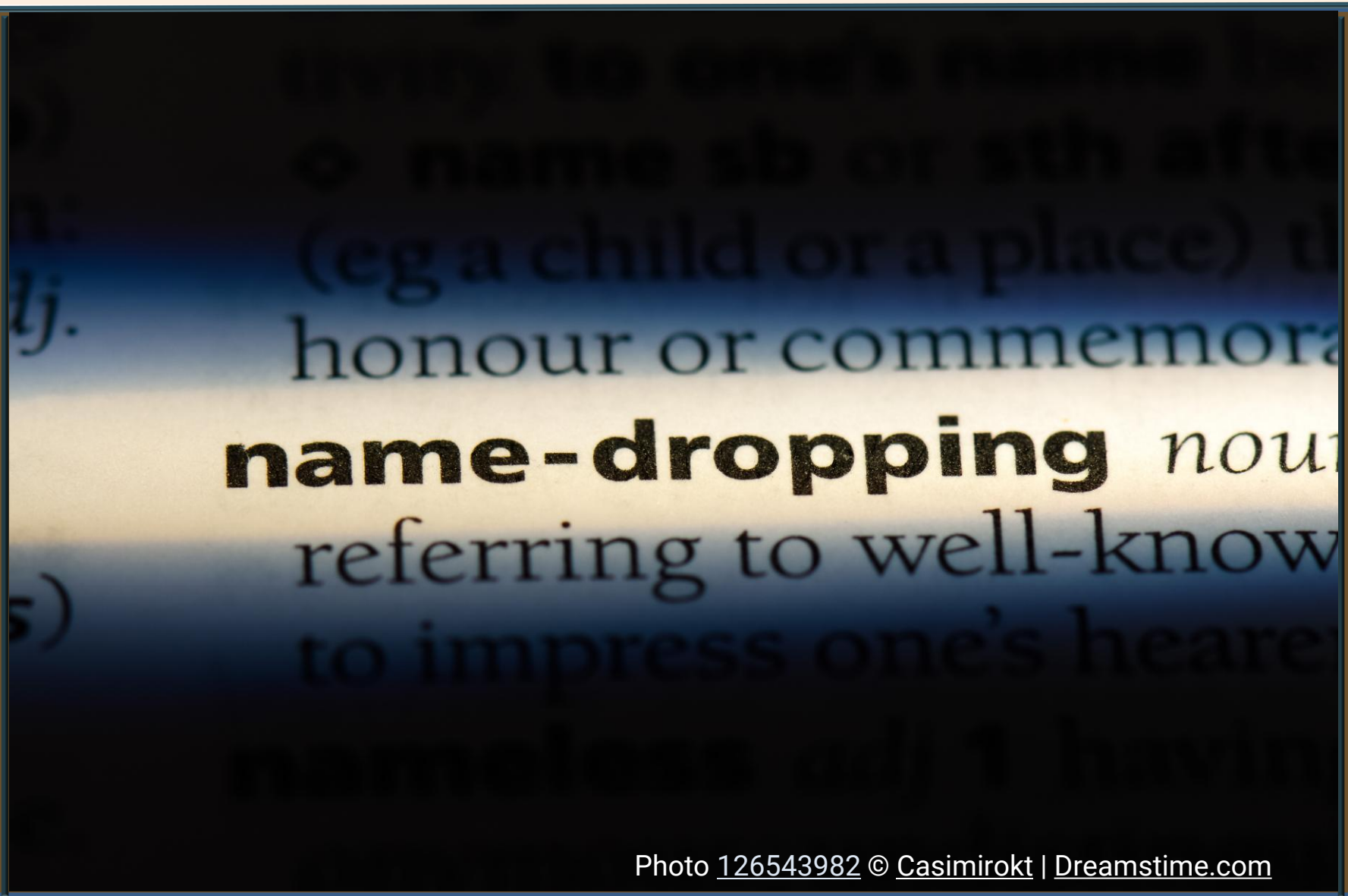
My Own Take on This

The Reference List is the Author's Social Community

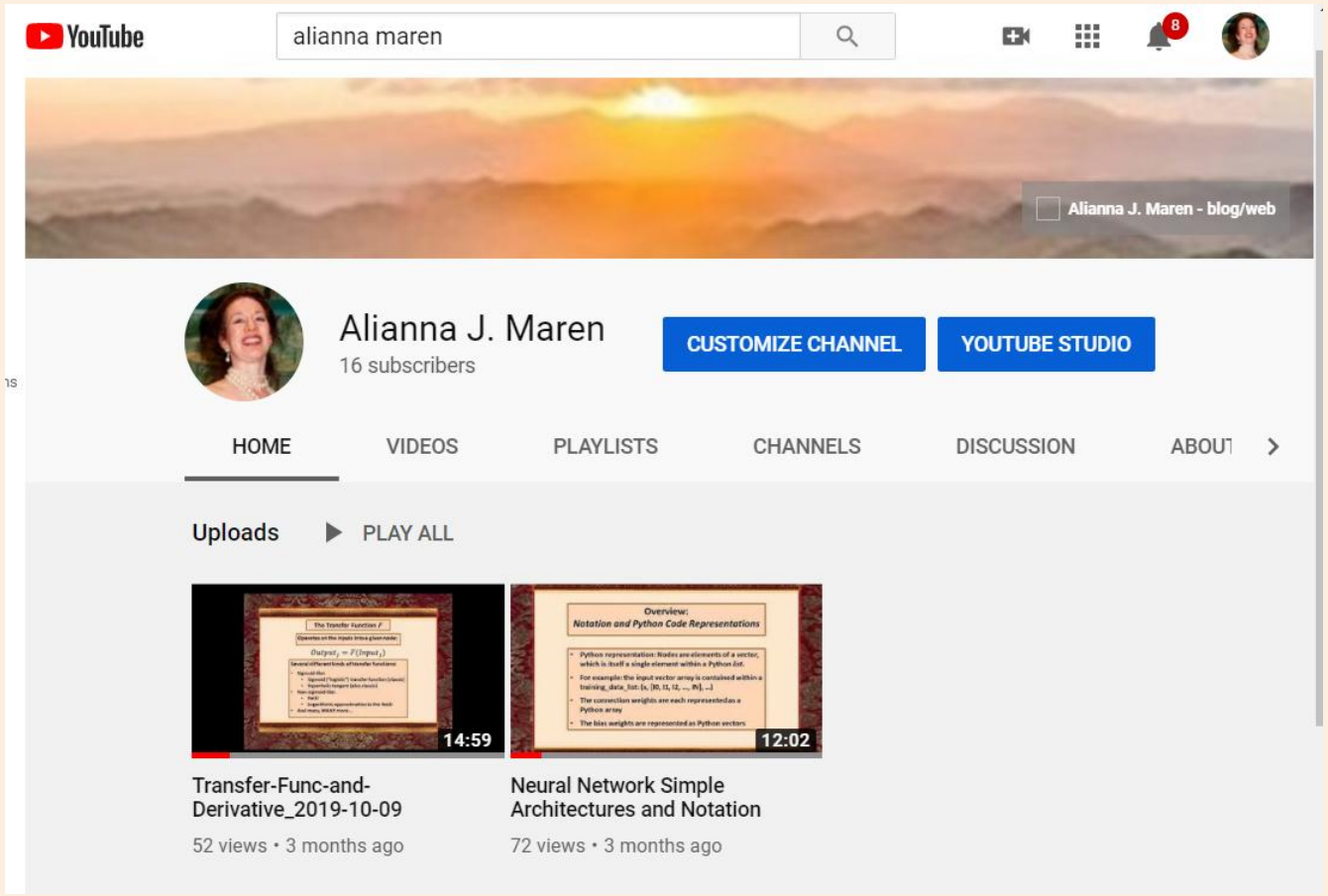
- ✓ **Their crowd** – *Do I know the people that are being cited (as in, following their research)?*
- ✓ **Important stuff** – *Are there important-looking papers that I haven't read yet?*
- ✓ **Extensions and thought-links** – *what else is tangential and interesting?*

Citing Someone Whose Work

You Haven't Read



Check Out Related Vids!



Plus – BONUS Material: AI Applications: Traditional, Cloud, and Edge