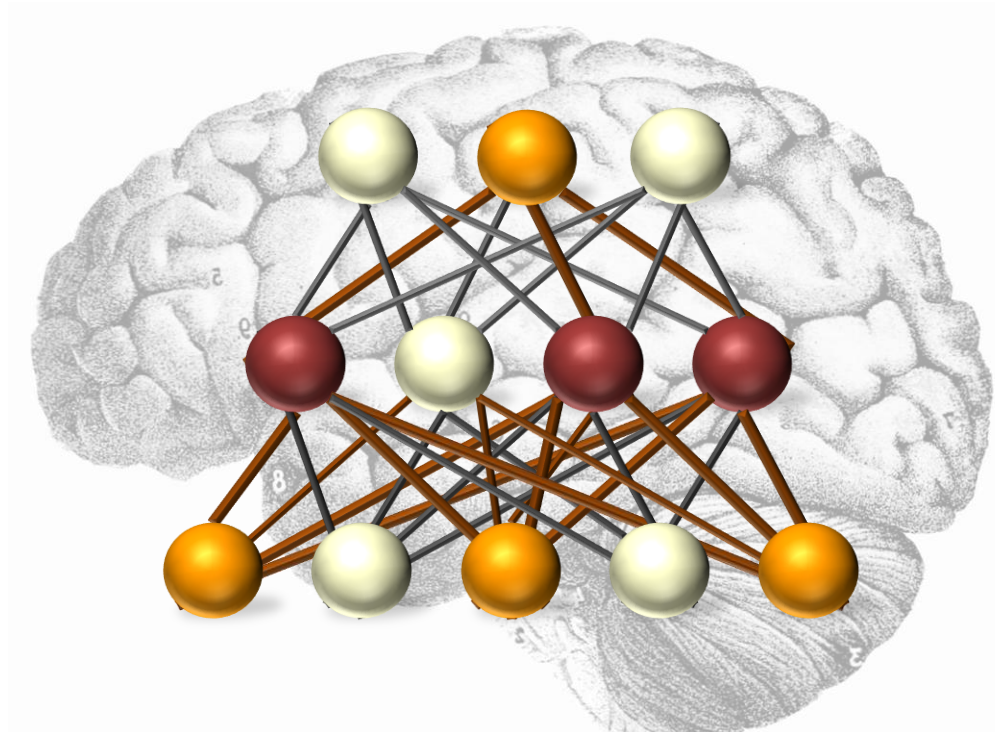


# Research Paper Writing

## 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**

# What Happens If You DON'T

**Shows lack of  
attention to detail**



**Maybe your technical  
work is also not careful**

# What Happens If You DON'T

Shows lack of attention to detail

```
graph TD; A[Shows lack of attention to detail] --> B[Maybe your technical work is also not careful]; B --> C[Reject!!!];
```

Maybe your technical work is also not careful

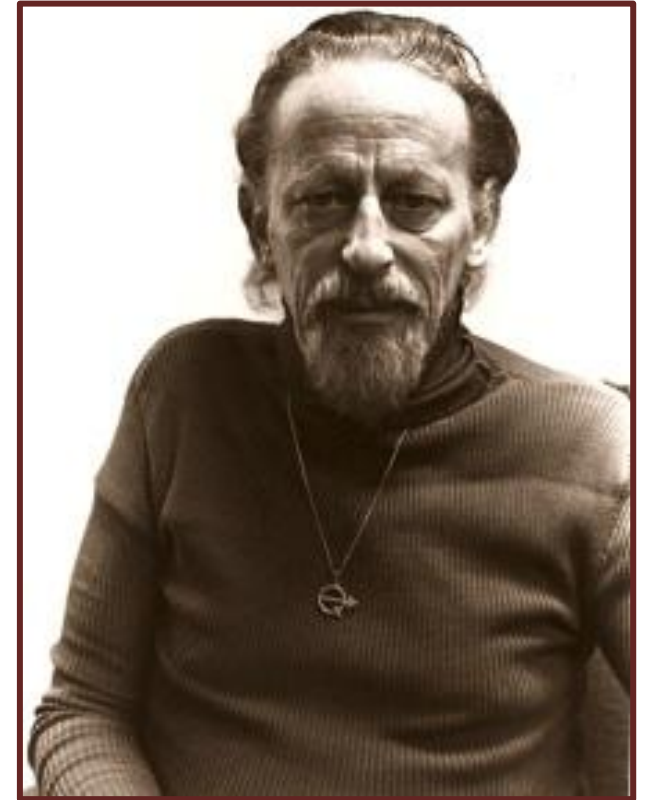
***Reject!!!***

# Sturgeon's Law

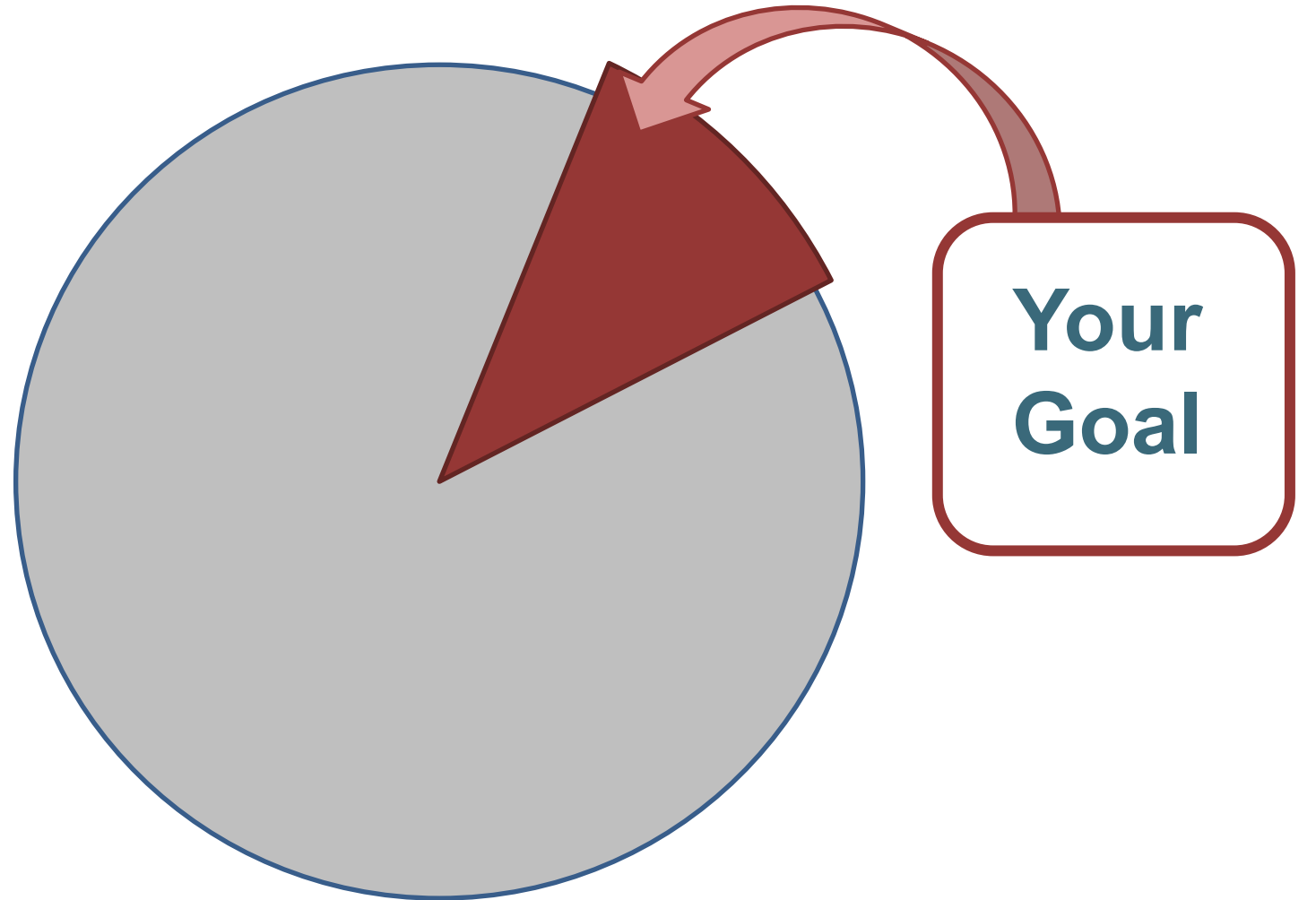
It is in this vein that I repeat Sturgeon's Revelation, which was wrung out of me after twenty years of wearying defense of science fiction against attacks of people who used the worst examples of the field for ammunition, and whose conclusion was that ninety percent of SF is crud.

The Revelation:

**Ninety percent of *everything* is crud.**

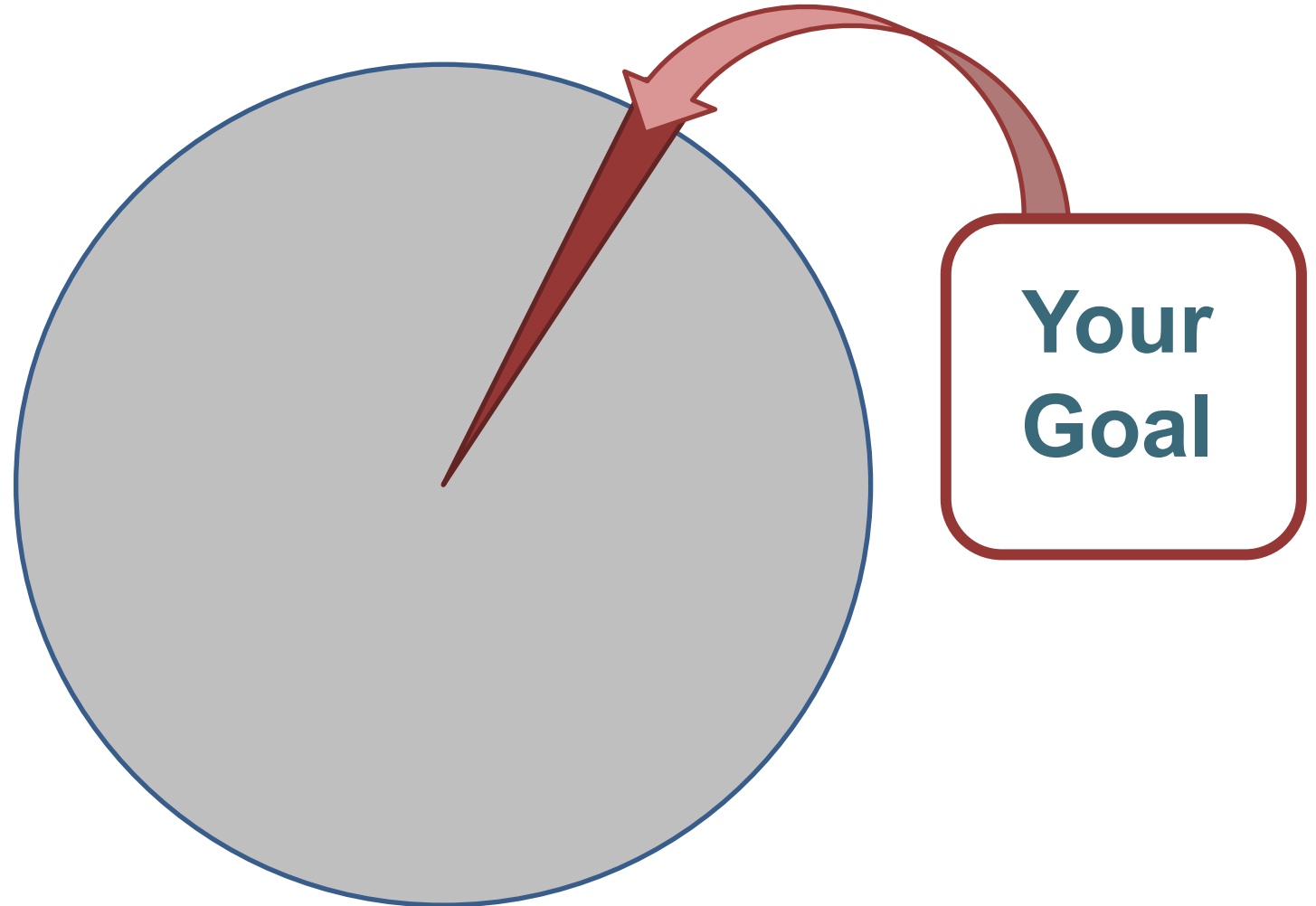


# Sturgeon's Law



# Actually, Be in the Top 1%

✓ **More productions  
than ever before**

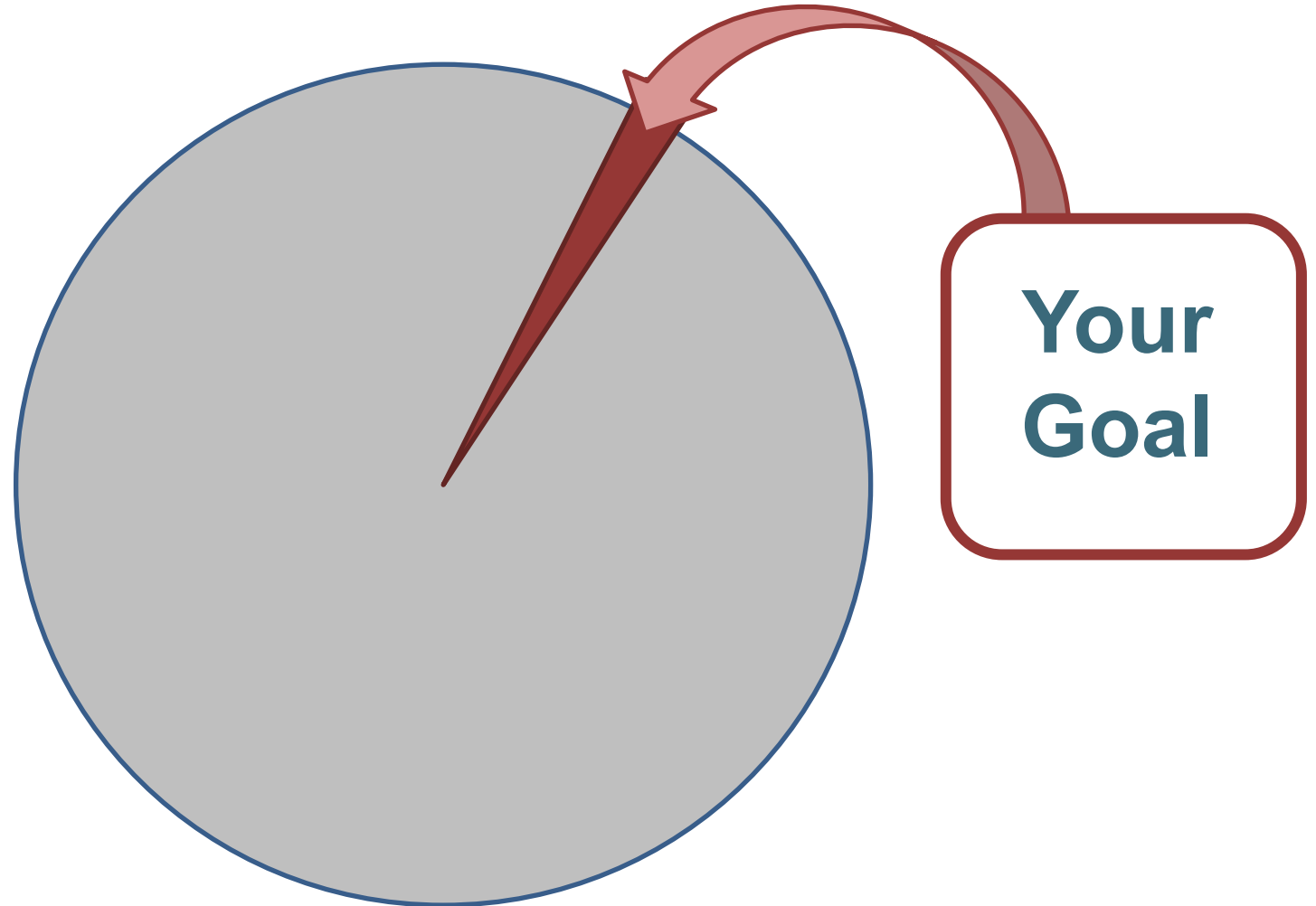


**Your  
Goal**

# Actually, Be in the Top 1%

✓ More productions  
than ever before

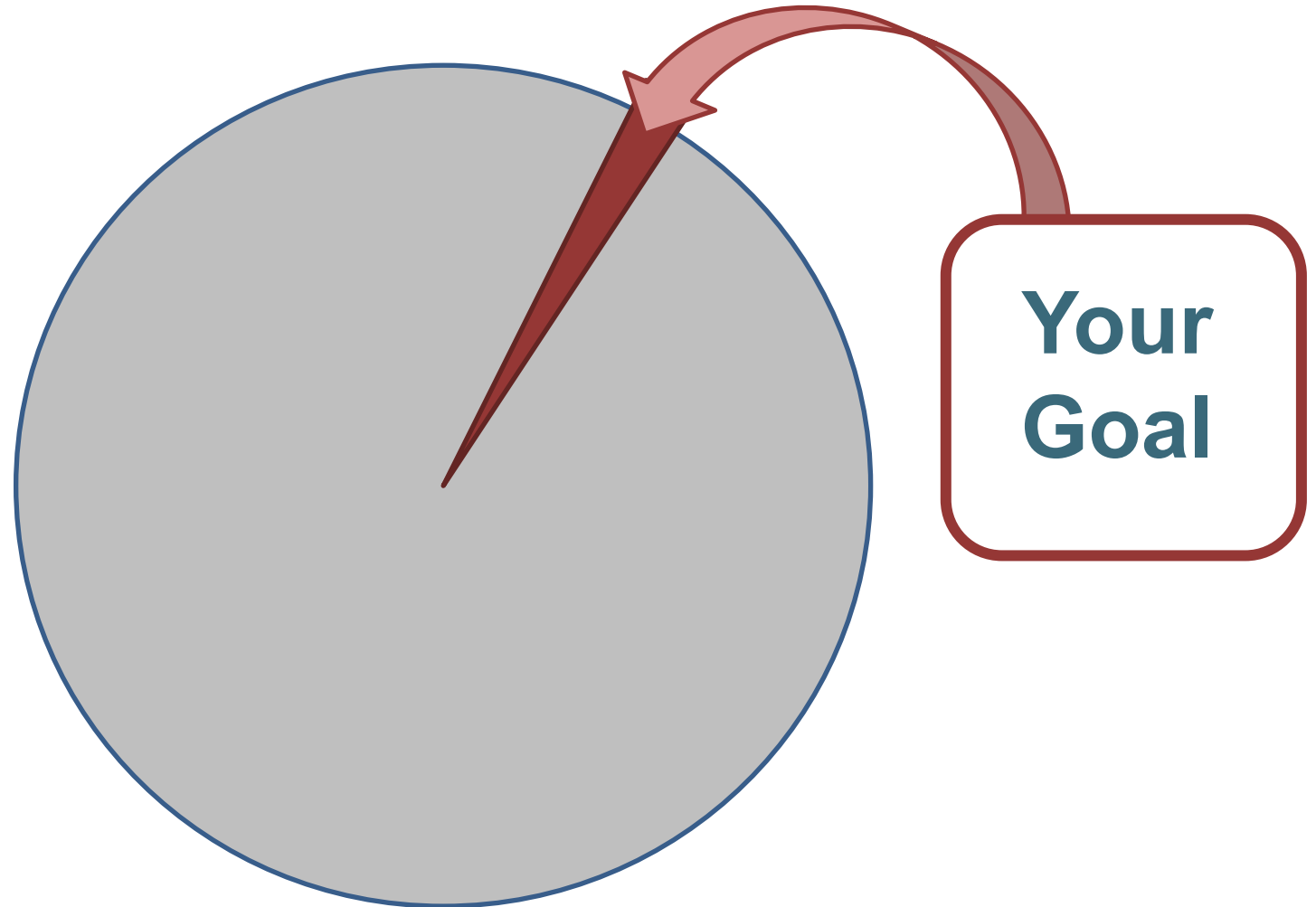
✓ **More distractions**



**Your  
Goal**

# 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*

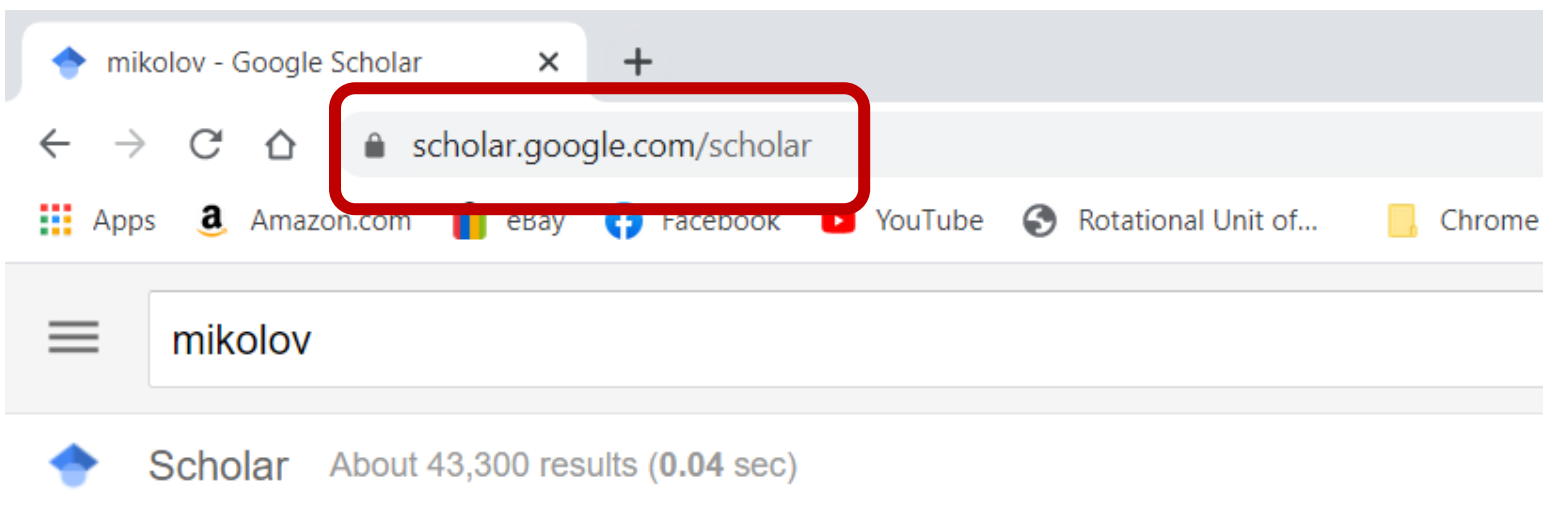
# Key Factor 3: Recency

## 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*



A screenshot of a web browser showing a Google Scholar search. The browser's address bar contains the URL `scholar.google.com/scholar`, which is highlighted with a red rectangular box. Below the address bar, the search term "mikolov" is entered into the search box. The search results show "Scholar About 43,300 results (0.04 sec)".

### User profiles for **mikolov**



**Tomas Mikolov**  
Senior Researcher, CIIRC CTU  
Verified email at fb.com  
Cited by 74237

[word2vec Explained: deriving Mikolov et al.'s negative-sampling word-embedding method](#)

[Y Goldberg, O Levy - arXiv preprint arXiv:1402.3722, 2014 - arxiv.org](#)

The word2vec software of Tomas **Mikolov** and colleagues (this https URL) has gained a lot of traction lately, and provides state-of-the-art word embeddings. The learning models behind the software are described in two research papers. We found the description of the ...


☆ [Cited by 1035](#) [Related articles](#) [All 8 versions](#) [↔](#)

**Step 1:**  
**Google.com/scholar**

# Example (Step 2a of 5):

## *Tomas Mikolov's Invention of Word2Vec*

The screenshot shows a Google Scholar search for 'mikolov'. The search results are as follows:

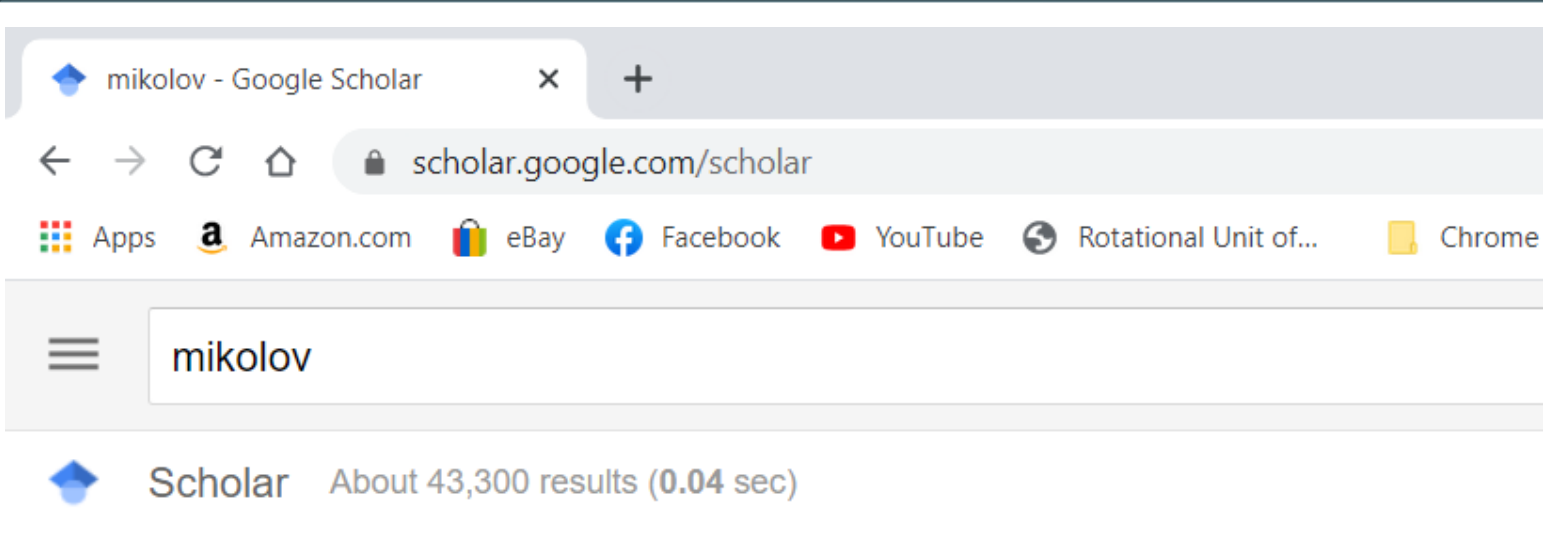
- User profiles for mikolov**
  -  **Tomas Mikolov**  
Senior Researcher, CIIRC CTU  
Verified email at fb.com  
Cited by 74237
- word2vec Explained: deriving Mikolov et al.'s negative-sampling word-embedding method**  
Y Goldberg, O Levy - arXiv preprint arXiv:1402.3722, 2014 - arxiv.org  
The word2vec software of Tomas **Mikolov** and colleagues (this https URL) has gained a lot of traction lately, and provides state-of-the-art word embeddings. The learning models behind the software are described in two research papers. We found the description of the ...

At the bottom of the search result, there are navigation options: ☆, 77, Cited by 1035, Related articles, All 8 versions, and a double arrow icon.

**Step 2:**  
**Find your person**

# Example (Step 2b of 5):

## *Thomas Mikolov's Invention of Word2Vec*



The screenshot shows a web browser window with the Google Scholar search page. The search bar contains the text 'mikolov'. Below the search bar, the results show 'Scholar About 43,300 results (0.04 sec)'. The first result is a user profile for 'Tomas Mikolov', a Senior Researcher at CIIRC CTU, with a verified email and 74,237 citations. Below the profile, the title of a paper is visible: 'word2vec Explained: deriving Mikolov et al.'s negative-sampling word-embedding method' by Y Goldberg and O Levy, published as an arXiv preprint in 2014.

Google.com/scholar

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

word2vec Explained: deriving **Mikolov** et al.'s negative-sampling word-embedding method

[Y Goldberg, O Levy - arXiv preprint arXiv:1402.3722, 2014 - arxiv.org](#)


The word2vec software of Tomas **Mikolov** and colleagues (this https URL) has gained a lot of traction lately, and provides state-of-the-art word embeddings. The learning models behind the software are described in two research papers. We found the description of the ...

☆  Cited by 1035 Related articles All 8 versions 

# Example (Step 3 of 5):

## *Tomas Mikolov's Invention of Word2Vec*

Google Scholar



**Tomas Mikolov** [FOLLOW](#)

Senior Researcher, CIIRC CTU  
Verified email at fb.com

[Artificial Intelligence](#) [Machine Learning](#) [Language Modeling](#) [Natural Language Processing](#)

[ARTICLES](#) [CITED BY](#) [CO-AUTHORS](#)

TITLE	CITED BY	YEAR
<a href="#">Distributed representations of words and phrases and their compositionality</a> T Mikolov, I Sutskever, K Chen, GS Corrado, J Dean Neural information processing systems	21750	2013
<a href="#">Efficient estimation of word representations in vector space</a> T Mikolov, K Chen, G Corrado, J Dean arXiv preprint arXiv:1301.3781	17292	2013
<a href="#">Distributed representations of sentences and documents</a> Q Le, T Mikolov International conference on machine learning, 1188-1196	6171	2014

thermodynamics-b...jpg  
Verified

Show all

**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

21750

2013

T Mikolov, I Sutskever, K Chen, GS Corrado, J Dean

Neural information processing systems

### 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

3978

2017

P Bojanowski, E Grave, A Joulin, T Mikolov

Transactions of the Association for Computational Linguistics 5, 135-146

## 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

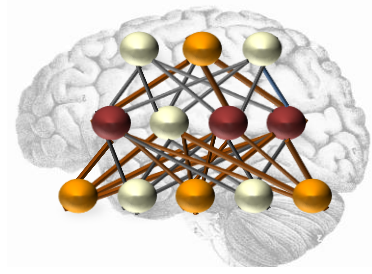
## The Reference List is the Author's Social Community

- ✓ **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*

**name-dropping** *noun*  
referring to well-known  
to impress one's hearer

# Check Out Related Vids!



YouTube

Alianna J. Maren - blog/web

**Alianna J. Maren**  
16 subscribers

[CUSTOMIZE CHANNEL](#) [YOUTUBE STUDIO](#)

HOME VIDEOS PLAYLISTS CHANNELS DISCUSSION ABOUT >

Uploads PLAY ALL

**Transfer-Func-and-Derivative\_2019-10-09**  
52 views · 3 months ago

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72 views · 3 months ago

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