





# What I've learnt about Open Science by being a part of CEVOpen

Perspectives on Open Science

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# Presentation structure

1. What we @ CEVOpen do?



2. What is Open Science?



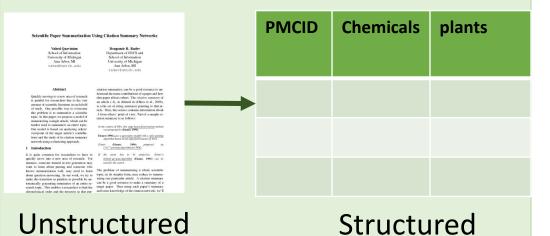
3. My message and learnings!



# What we @CEVOpen do



## Gain Insights



1000s plants more!



Lantana Camara (An Invasive)

Tulsi

# What we @CEVOpen do



Reduce time it takes to review literature Months to review literature!

Rapidly download bulk of papers

Analyse and annotate

## DONE Minutes, if not hours!



### Scientific Paper Summarization Using Citation Summary Networks

Vahed Oazvinian School of Information University of Michigan

Dragomir R. Radev Department of EECS and School of Information University of Michigan Ann Arbor, MI

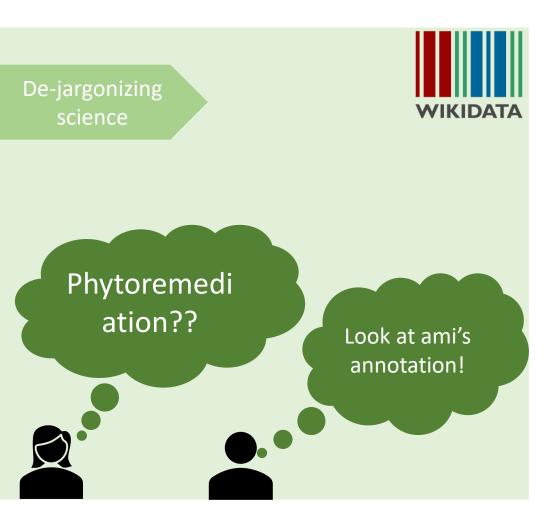
Quickly moving to a new area of research is painful for researchers due to the vast

derstand the main contributions of a paper and how that paper affects others. The citation summary of an article (A), as defined in (Elkiss et al., 2008),

about question answering. In our work, we try to topic, in its simpler form, may reduce to summa make this transition as painless an possible by au-tomatically generating summaries of an entire re-search topic. This enables a researcher to find the

# Visions for CEVOpen

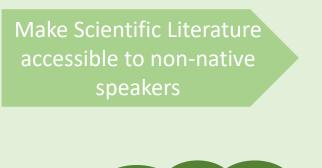




Examples here

# Visions for CEVOpen







Ami with the help of Wikidata can look up terms for you, right there!

which
Ocimum
means



Annotating with images!

# Nice example of using and doing open Science

WE make use of, and also contribute to...



Open literature



Open database - Wikidata



Open source tools

Impossible if ALL literature was closed and copyrighted

# Open Science is more than *just* open publishing...

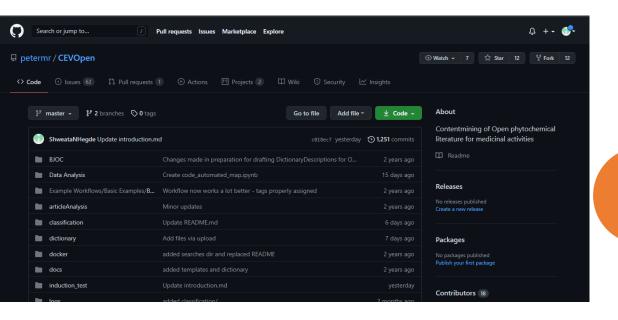
# Open Science is...

\_definition\_

PMR would have or will talk more

Challenges

# It's also about...



Open Notebook Philosophy

# How we work

Work updated in real-time! Go back to any version!

You can try out, modify or access any material from our project!

https://github.com/petermr/CEVOpen https://github.com/petermr/pygetpapers https://github.com/petermr/pyami

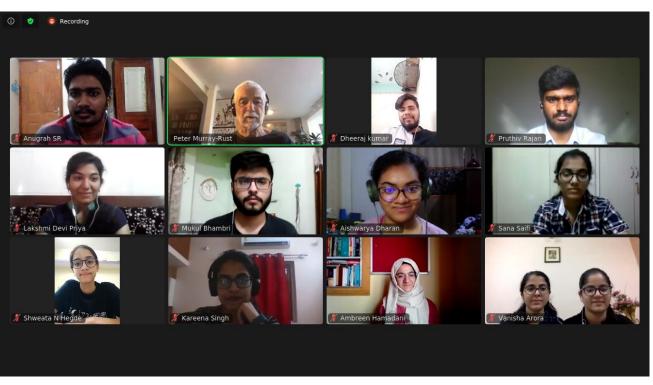
# **Community and Accountability**



ISSUES	Ambreen	Vaishali	Priya	Rajan	Vanisha	Sana	Kareena	Charles
corpus (between 200-950)	Ready	Ready	Ready	Ready	Ready	Ready	Ready	Ready
dictionary	Ready	Ready	Ready	Ready	Ready	Ready	Ready	In progress
annotated (Pos/Neg) viral epidemics	8.90%	40/10	In progress	111/116	In progress	36/14	121/29	5/35
specialist subsets (e.g. methods) e.g. sections	Ready	Ready	Ready	Ready	Ready	Ready	Ready	Haven't Started
notebooks	Ready	In progress	In progress	In progress	In progress	Haven't Started	In progress	Haven't Started
machine learning / NLP	In progress	In progress	Haven't Started	In progress				
display	In progress	Haven't Started	In progress	In progress				
language variants	Ready	Haven't Started	Ready	Ready	Haven't Started	In progress	Haven't Started	Haven't Started
ami search	Ready	In progress	Ready	Ready	Ready	Ready	Ready	Haven't Started

Work as a community Individual accountability

# It's also about...



Putting every work you do openly on the web increases discoverability and serendipitous encounters!

cambiohack



# Whom we include and collaborate with

# My Message!



Transition to Open Science practice in ANY ways possible or promote!

## Context

Life Science Undergrad Joined openVirus -> 11 months ago (Sep. 2020)

# No coding experience!



You don't have to be an expert to start out!

No restrictions! No gatekeeping!

# Reflecting on learnings!





Documenting your work openly helped me...



Forgo perfectionism: Everything's work-in-progress



Experiment: Document failures!

# Reflecting on learnings!





The open science community has helped me...



Learn: Coding, best-practices from others!



Repurpose: No going down the reinvention well again and



Share: Without worries!



((E)) Communicate: Reading and writing better documentation



# Extremely grateful to mentors and the Team!

Dr Peter Murray-Rust Dr Gitanjali Yadav OpenVirus Team CEVOpen Team