# Evaluation of Argo Scholar with Observati Kevin Li Haoyang Yang Evan Montoya Anish Upadhayay Zhiyan Zhou Jon Saad-Falcon Pole kevin.li@gatech.edu

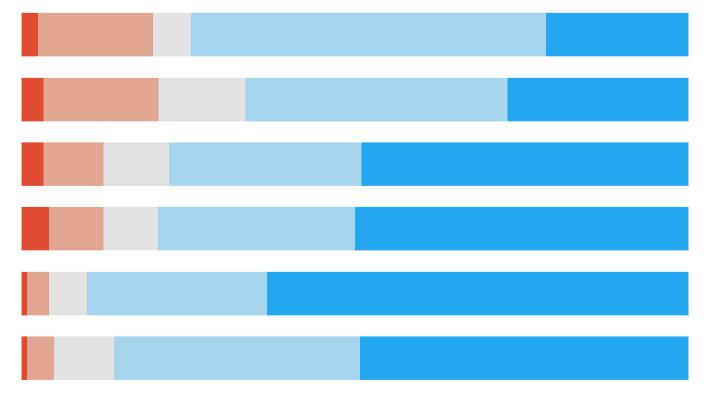
## We present a large-scale evaluation of Argo Scholar, an open-sourced, web-based tool for literature exploration.

Try Argo Scholar at poloclub.github.io/argo-scholar

# **122 Diverse Participants**

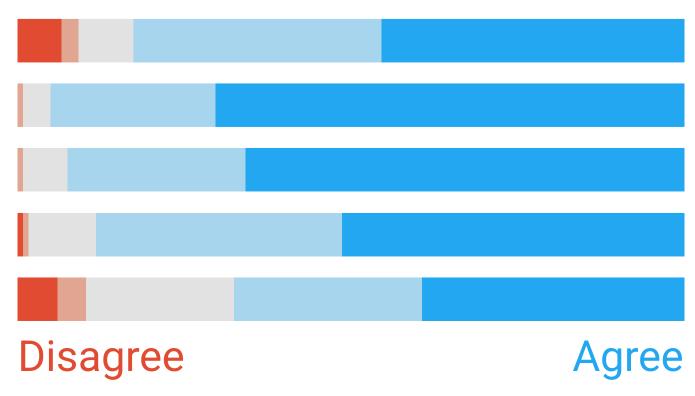
- **51** Social, Behaviorial & Economic Sciences (SBE)
- **24** Biological Sciences (BIO)
- **21** Computer & Information Science & Eng. (CISE) **9** Engineering (ENG)
- 6 Mathematical & Physical Sciences (MPS)
- **5** Education & Human Resources (EHR)
- **3** Integrative Activities (OIA)
- **2** Environmental Research & Education (ERE)
- **1** Geosciences (GEO)

## Usability



Easy to use Easy to understand Enjoyable to use Would like similar software Helped find related work Helped understand relation

### Feature Usefulness



Graph View Exploration Dropdown Paper Information Panel Saving and Sharing Node Appearance Customization

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Nodes Edges Labels Modifying All Nodes Color	< <p>Ma</p>
Color By:citationCountScale Type:Log ScaleGradient: $\rightarrow$	
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Total Nodes: 39, Total Edges: 119, Hidden Nodes: 18

## **Key Findings**

"I have never been able to map out citations and references for research papers so quickly in an organized fashion." "... it helped me to find some relevant papers I hadn't come across yet ... could be very helpful for my dissertation."

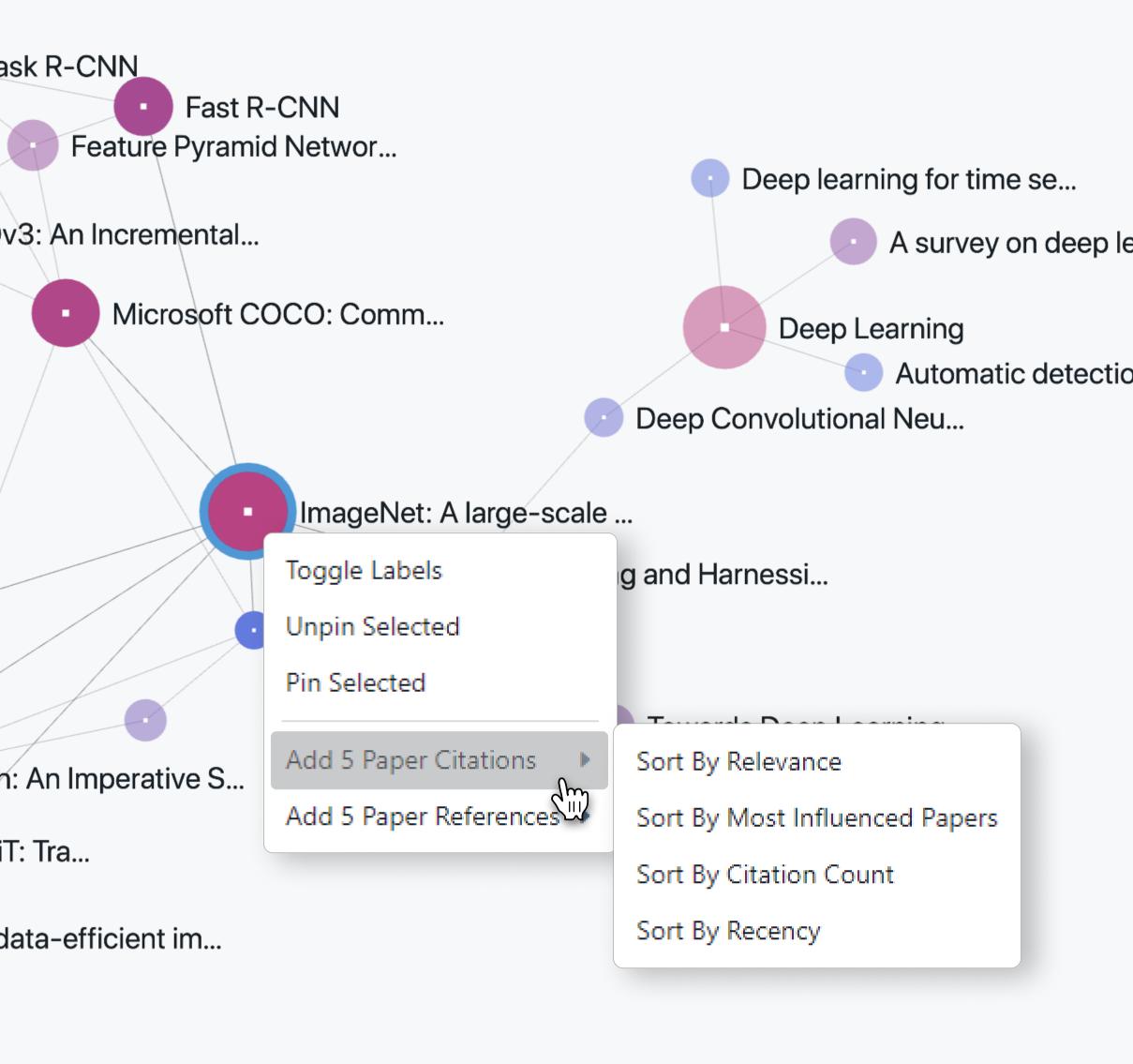
#### No one-size-fits-all literature exploration tool

"Love the node aspect and makes showing connections to other papers super easy!" "... not how my mind works. I can see that it could be very powerful for some people, though."

#### **Need for increased user interactions**

"to make my own ... lines to connect some of my own connections" "sticky note function" "Very easy to publish ... Can save lots of time working with my colleagues"

Q ImageNet: A large-scale hierarchic



#### Incremental exploration works well across a wide range of disciplines and helps find related work and understand relationships between such articles

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	<b>Study</b> Chau	
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	ImageNet: A large-scale hierarchical image database Jia Deng, Wei Dong, R. Socher, Li-Jia Li, K. Li, Li Fei-Fei Venue: CVPR Year: 2009	
arnii n of	Citation Count: 25364 Degree: 14 Page Rank: 0.22100007736927288 Node ID: 1b47265245e8db53a553049dcb27ed3e495fd 625	
	Abstract: The explosion of image data on the Internet has the potential to foster more sophisticated and robust models and algorithms to index, retrieve, organize and interact with images and multimedia data. But exactly how such data can be harnessed and organized remains a critical problem. We introduce here a new database called "ImageNet", a large-scale ontology of images built upon the backbone of the WordNet structure. ImageNet aims to populate the majority of the 80,000 synsets of WordNet with an average of 500-1000 clean and full resolution images. This will result in tens of millions of annotated images organized by the semantic hierarchy of WordNet. This paper offers a detailed analysis of ImageNet in its	
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Color by: citationCount (Log Scale), Size by: citationCount (Linear Scale)