

## INTRO

### **NCAR's Search Engine**

NCAR's diverse scientific data holdings have historically been difficult for external scientists and users to search across and find the data they need to do their science. While we have a current search system that aggregates these data holdings, we are experimenting with a simpler approach.

### The "Problem"

Eventually, this new search engine may be deployed and be used as NCAR's primary search engine. Before it's deployed, there are many features and bugs that need to be addressed. Our job this summer was to **push the search engine closer to** 

deployment.

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Search

Welcome to Metadata Search Engine! his is a search engine to access digital assets from all NCAR/UCAR Search

### SITEMAP/JSON-LD



### Why need?

A good XML sitemap acts as a roadmap of your website that leads Google to all your important pages and JSON-LD describes it.

### **JSON-LD** on Our Web App

"@context" : "http://schema.org", "@type" : "Dataset", "@id" : "https://doi.org/10.5065/7c2d-bg23", "identifier" : "https://doi.org/10.5065/7c2d-bg23", "name" : "High Resolution Historical and Future Simulations Over Hawaii", "description" : "To better understand the rainfall climatology and its impacts on hy "url" : "https://doi.org/10.5065/7c2d-bg23",

### **Future Work**

Adding Robots.txt to be able to crawl only **specific** pages of the website.

ACKNOWLEDGMENTS

Thank you to our mentors Nathan Hook, Saquib Aziz-Khan, and Eric Nienhouse, to the SIParCS coordinators Virginia Do, AJ Lauer, Jerry Cyconne, and FrancesGladys Pulido, and to the NSF for this project and to NCAR and CISL for their support of SIParCS.

# **DEVELOPING A SCIENTIFIC DATA SEARCH ENGINE**

### Sabira Duishebaeva, Teagan Mentors: Nathan Hook, Saquib Aziz-Khan,



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	Conclusion We ultimately achie progressing the sea deployment by imp findability, and act we implemented me faceting, efficient de indexing. Future work include validation and facet and spellcheck algo



## EARCH CETING

### egorize their files by want to be able to **filter** esults by their resource

#### Found

and sinks of atmospheric VOCs: An integrated resolution chemical transport model (GEOS-Ch ds (VOCs) and a comprehensive suite of airbo

esults Found ological data f source is a boo 57-Dec 1958

**Ct** 

ons to abs, rs etc. **Resource Type** Clear 8631 publication 8072 dataset 18 software 4 fieldSession 1 collectionSessio 1 model 1 service

## CLUSION

eved our goal of arch engine towards proving its searchability, **curacy.** More specifically, netadata validation, search eletion, and Google

es adding extensions to eting, implementing autofill orithms, designing a login vester, and more.