



Enabling Research via Shared Data, Resources, and Community



Acknowledgments

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- Clarivate Analytics, Inc., Web of Science Group



Program overview

- Workshop purpose and goals (Patty Mabry)
 - The CADRE project (Val Pentchev)
 - WoS data (Tim Otto)
 - Keynote (Katy Borner)
 - CADRE fellow presentations (Sam Hansen, Mike Park, Chao Min)
 - Q&A and conclusion (Patty Mabry)
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What is CADRE?

We responded to an IMLS solicitation to build a National Digital Platform.

Our central tenet:

Academic libraries are challenged to provide sustainable, affordable, and standardized data and text mining services for licensed, big data sets, as well as open and non-consumptive data sets that are too large or unwieldy to work within existing research library environments, or that have no commercially viable data mining interface.

CADRE is the solution: a shared resource for researchers to solve the cost, silo, and expertise problems associated with hosting big research datasets.

CADRE Leadership

Jamie Wittenberg
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Libraries



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Big Ten Academic
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Partners



University of Iowa Libraries



University of Michigan Libraries



Michigan State University Libraries



University of Minnesota Libraries



Ohio State University Libraries



Penn State University Libraries



Purdue University Libraries



Rutgers University Libraries



Health Partners



Pervasive Technology Institute



Midwest Big Data Hub



South Big Data Hub



West Big Data Hub



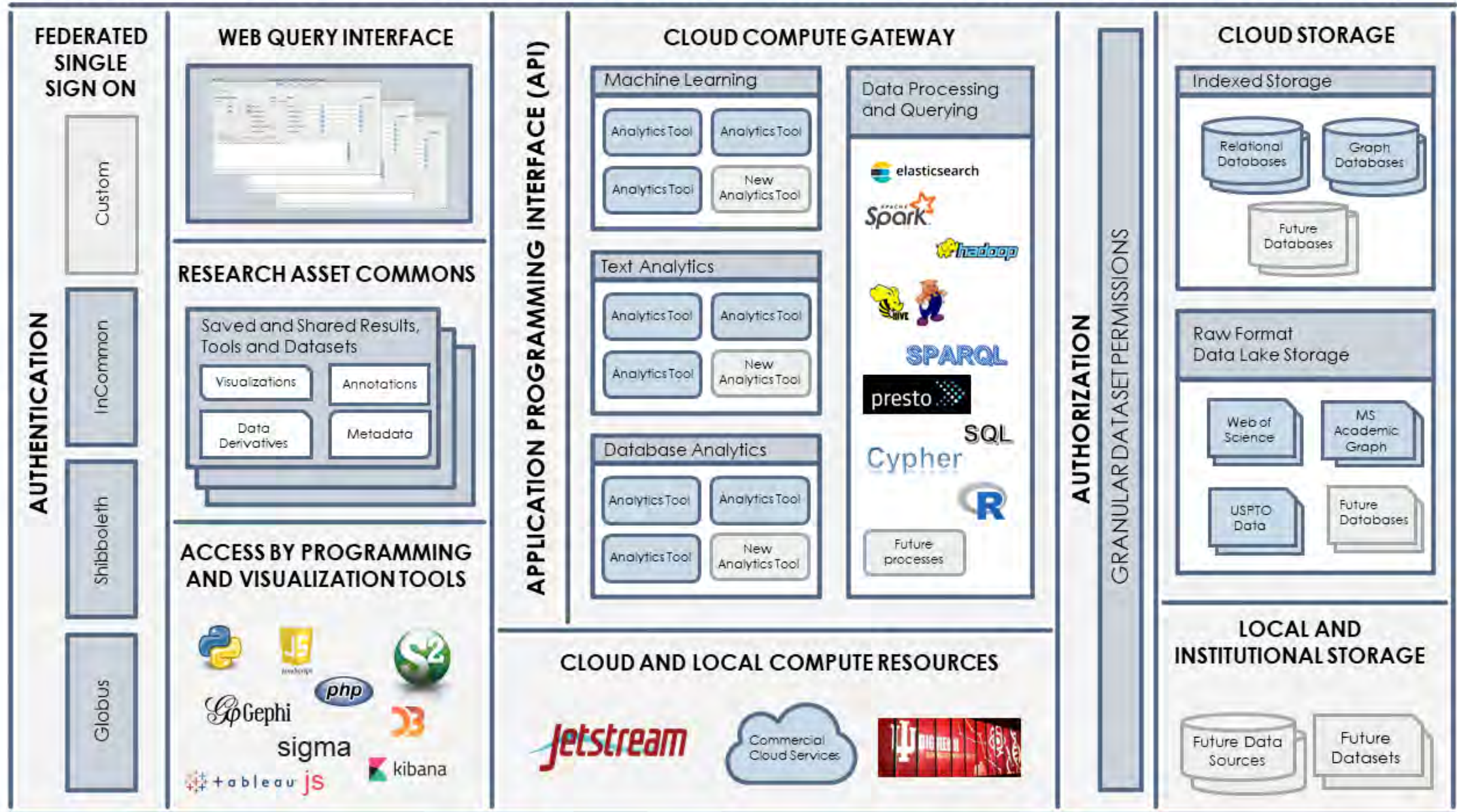
Microsoft Research



Web of Science Group

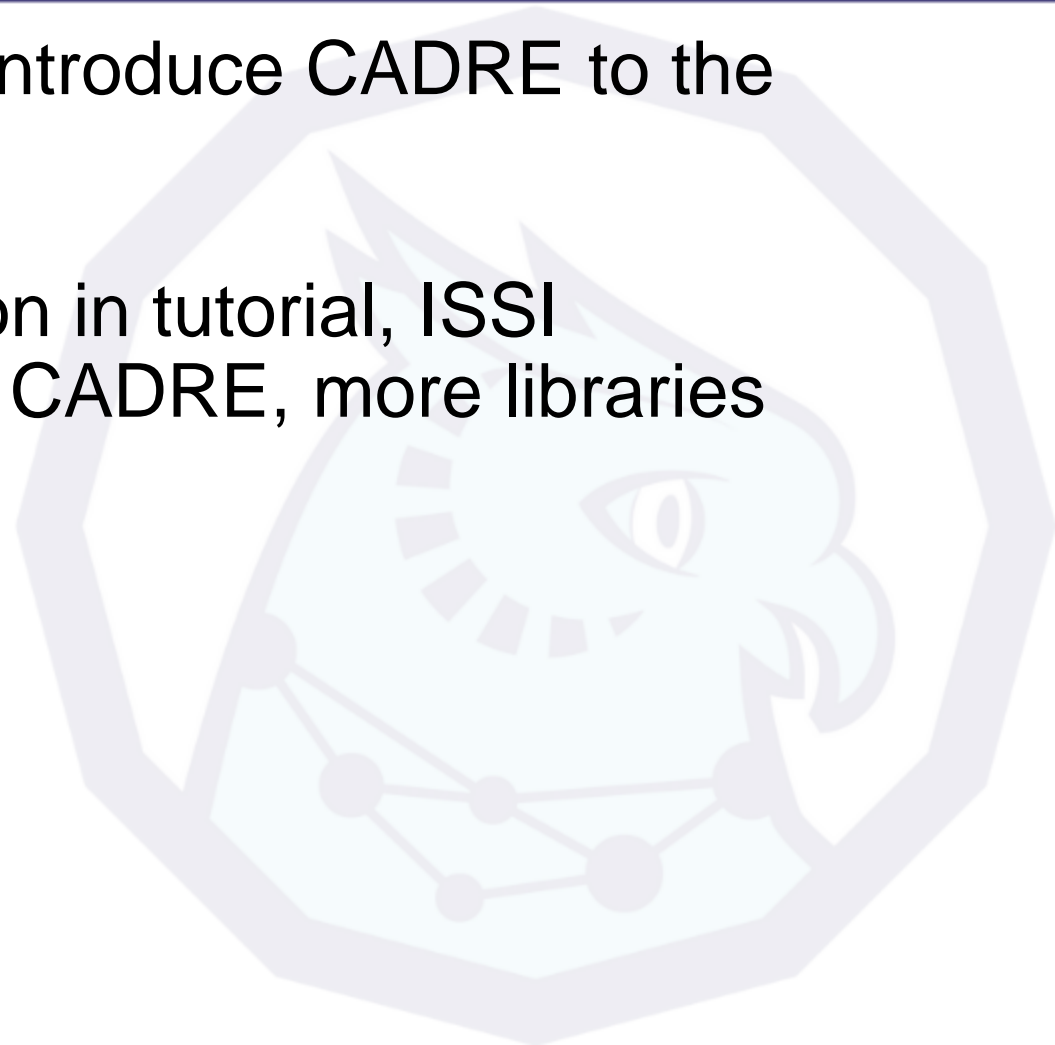
This project was made possible in part by the Institute of Museum and Library Services LG-70-18-0202.

SHARED BIGDATA-GATEWAY FOR RESEARCH LIBRARIES (SBD-GATEWAY)



Workshop purpose and goals

- Main purpose of today's workshop is to introduce CADRE to the Science of Science research community
- Desired workshop outcomes: participation in tutorial, ISSI researchers using CADRE, feedback on CADRE, more libraries joining CADRE.



Workshop purpose and goals

Our intended CADRE users are:

- *Academic Libraries*
- *Library Science Researchers*
- *Science of Science Researchers, other researchers*
- *Others – e.g., University Administrators*



Workshop purpose and goals: A CADRE Community of Practice



Researchers can help by:

- **SHARING:** Using the CADRE platform for research and sharing, data cleaning procedures/algorithms, analyses, results, pipelines and workflows.
- **STANDARDS** – eventually we hope the community will self organize and develop standards for sharing data and other research assets.
- **FEEDBACK** – Please give us your feedback on what you like about CADRE, any features or data you wish we would offer, your desire for future datasets. Also communicate with your institutions librarian about these.

VAL's SLIDES



Microsoft®
Research



CADRE Fellows

Xiaoran Yan



CADRE related events

Apr. 2019



- 2019 CADRE meeting
- CADRE Fellowship open
- 1st Fellows announced
- ISSI workshop & tutorial



Sep. 2019



May. 2020



- 2020 CADRE meeting
- BTAA Library Conference 2020
- 2020 CADRE hack-a-thon



CADRE Fellowship program

- Gain access to the big bibliometric data sets
- Receive data and technical support for your project
- Join the CADRE community on Slack channels, GitHub repositories and other platforms
- Have early access to free cloud computing resources
- Receive travel scholarships

Utilizing Data Citation for Aggregating, Contextualizing, and Engaging with Research Data in STEM Education Research

Researchers: Michael Witt, Loran Carleton Parker, Ann Bessenbacher

Affiliation: Purdue University



MCAP: Mapping Collaborations and Partnerships in SDG Research

Researchers: Jane Payumo, Devin Higgins, Scout Calvert, Guangming He
Affiliation: Michigan State University



The global network of air links and scientific collaboration – a quasi-experimental analysis

Researchers: Katy Börner, Adam Ploszaj, Lisel Record, Bruce Herr II

Affiliation: Indiana University Bloomington and University of Warsaw



Measuring and Modeling the Dynamics of Science Using the CADRE Platform

Researchers: Russell Funk, Michael Park, Thomas Gebhart, Britta Glennon, Julia Lane, Raviv Murciano-Goroff, Matthew Ross, Jina Lee, Erin Leahey

Affiliation: University of Minnesota, University of Pennsylvania, New York University, Boston University, University of Arizona



Questions?



Understanding citation impact of scientific publications through ego-centered citation networks

Researchers: Yi Bu, Chao Min, Ying Ding

Affiliation: Indiana University Bloomington and Nanjing University



Questions?



Comparative analysis of legacy and emerging journals in mathematical biology

Researchers: Marisa Conte, Samuel Hansen, Scott Martin, Santiago Schnell

Affiliation: University of Michigan and University of Michigan Medical School



Systematic over-time study of the similarities and differences in research across mathematics and the sciences

Researcher: Samuel Hansen
Affiliation: University of Michigan



Questions?



Contact Us



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