Project CADRE

Accessibility Update Report

Oct 25, 2020

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INDIANA UNIVERSITY
NETWORK SCIENCE INSTITUTE

Contents

Method

The WAVE (Web Accessibility Evaluation Tool) Chrome plugin was used to review all pages in the CADRE website and the CADRE Gateway to identify any accessibility issues. Then, screenshots of the existing version of each page were taken and uploaded into Zeplin. The suggested accessibility-related UI/UX changes and errors and/or alerts that the WAVE plugin reported were made in Zeplin through the "Comments" function and pushed to the web developer to be implemented on the website.

All changes were implemented and rolled out to the end-user version of CADRE on Oct. 21, 2020, in CADRE's beta launch.

The High–level accessibility review by deque

Deque conducted High-level Accessibility Review of CADRE and shared its report with the Big Ten Academic Alliance (BTAA). Deque's report pointed out several accessibility issues on the CADRE website and Gateway, including color contrast, missing programmatic association, and name-role value problems where elements are not semantically identified as interactive elements.

Deque's review also listed other less prominent accessibility issues following the corresponding WCAG 2/2.1 AA/AAA Success Criteria.

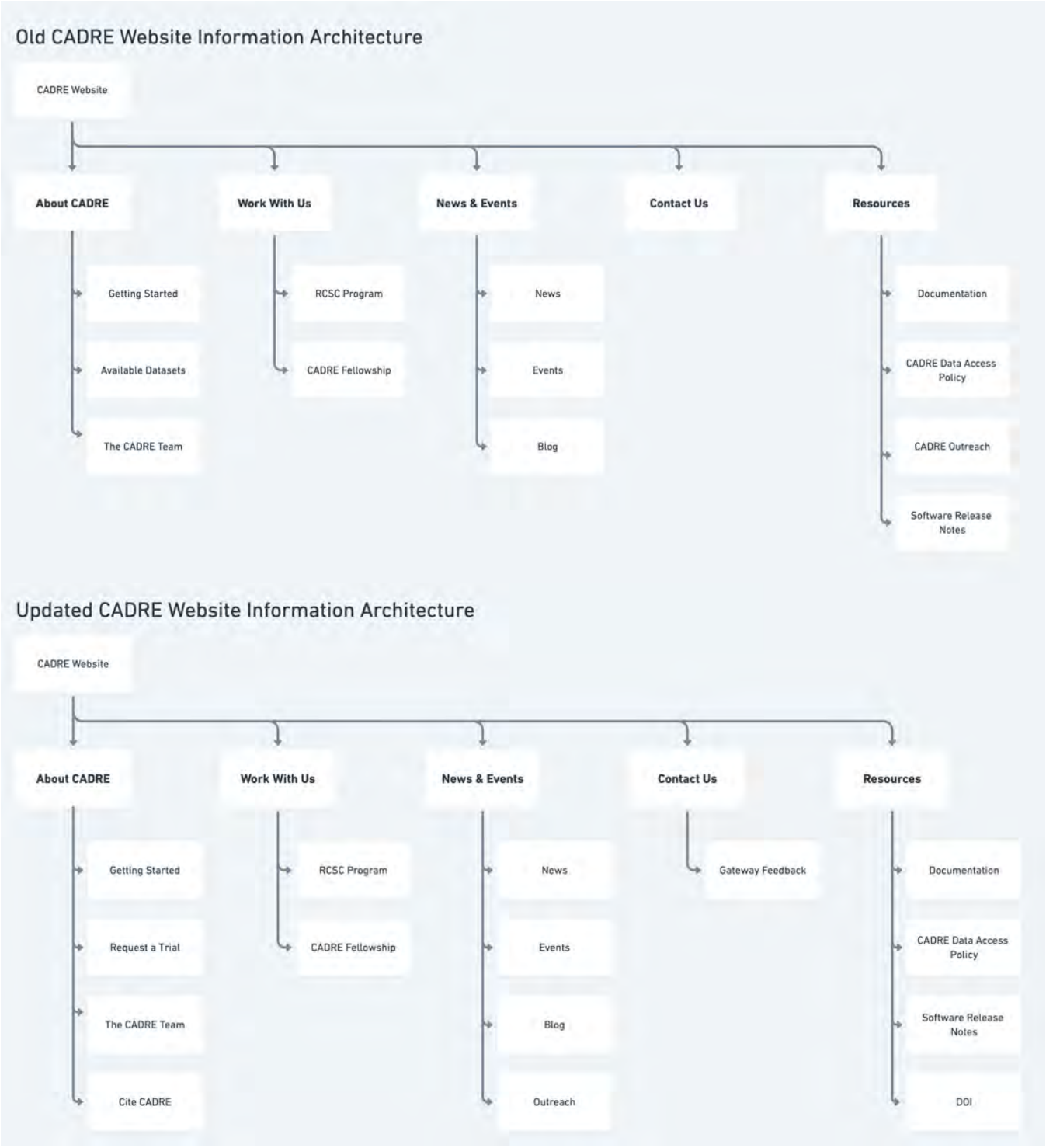
Many of the accessibility issues listed in the Deque report are not directly visible, such as semantics issues, missing/blank/incomprehensive alt text, controls/interactive elements that are not keyboard-focusable, etc. Through collaboration with CADRE's lead developer, most of these issues are fixed, and changes have been rolled out in the beta launch.

Future Improvements

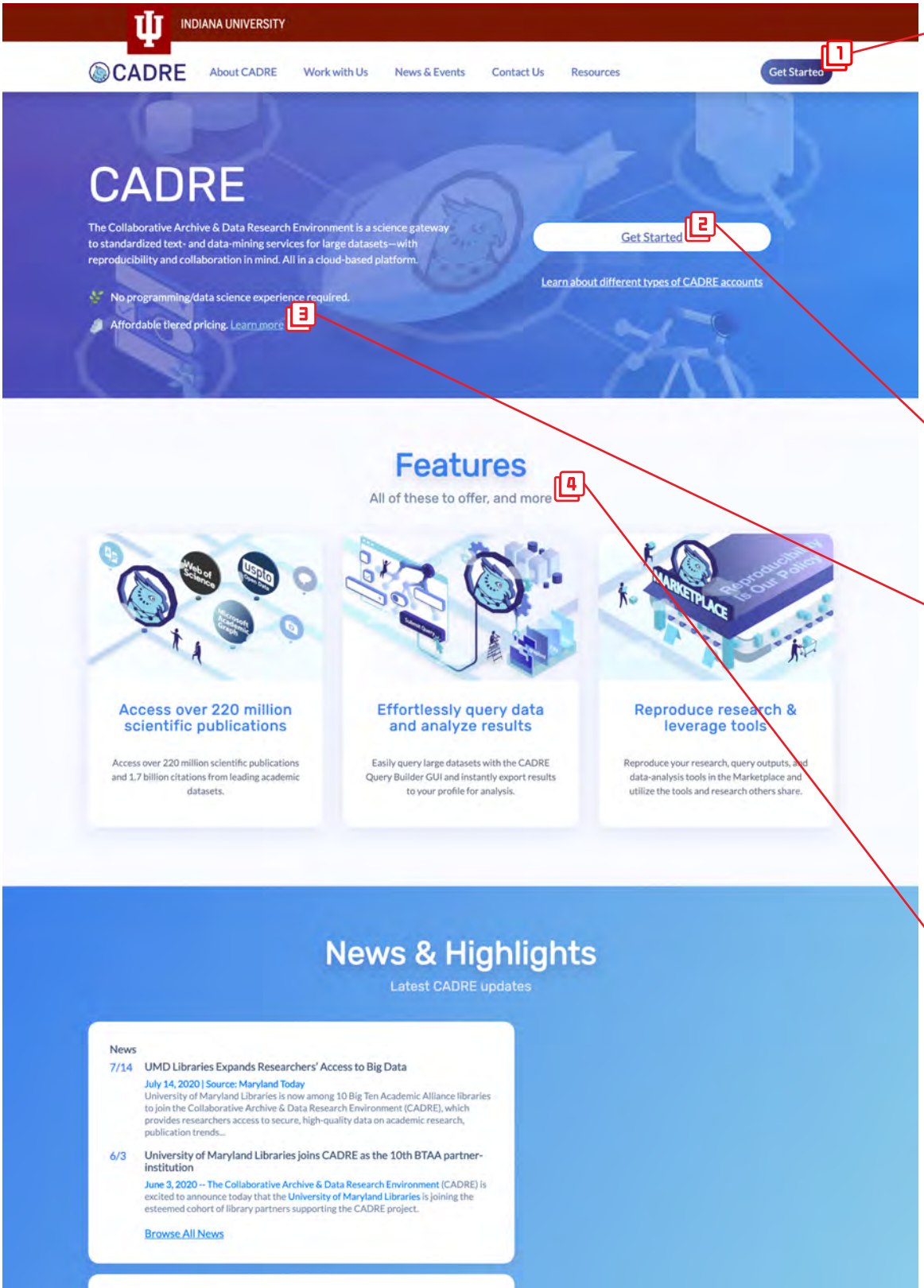
It is necessary to take into consideration that CADRE is currently only in its beta phase and will continue to go through a lot more major changes both functionally and interaction-wise. In CADRE's current stage, identified accessibility issues we plan to improve in the future include users being timed out of the Gateway without warning and structural enhancements for screen readers.

After the beta launch CADRE will only have one active and open instance (previously there was a stable public version and a less stable development-only version). Future changes will be available directly to all users.

CADRE Website Information Architecture: Before & After

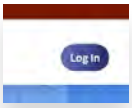


CADRE WEBSITE
Homepage
https://cadre.iu.edu/



1 UX Copywriting.

Changed from *Get Started* to *Log In to ensure consistency and adopt common UX patterns in web design.*



2 General accessibility.

Enlarged font size from 1.25rem to 1.5 rem.

3 Contrast.

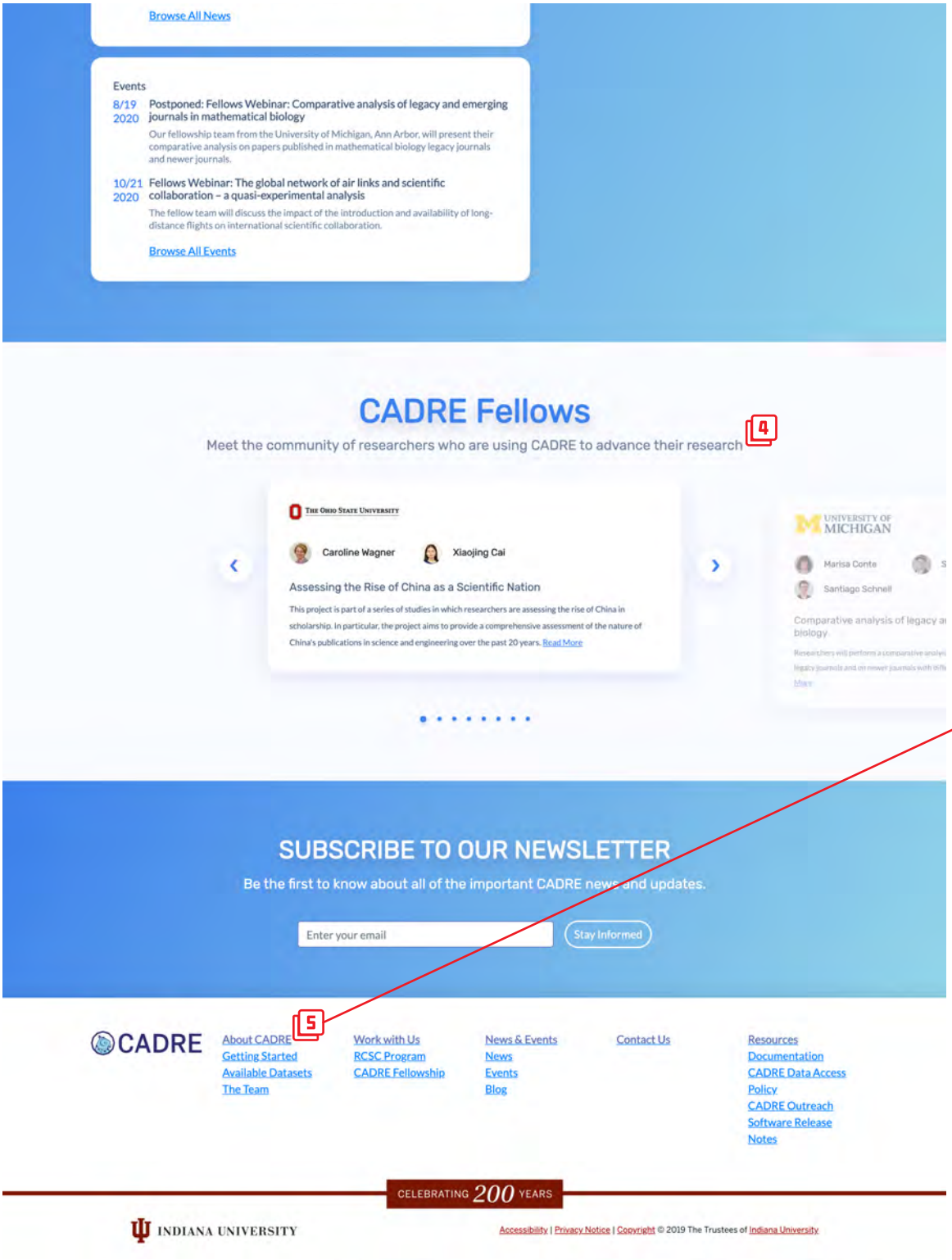
The light blue Learn More does not provide sufficient contrast against the background illustration.

Additional copy-writing changes were also made.

4 Contrast.

See also 4 on the next page.

Updated from **#7285a3** to **#4D5575**, new contrast ratio: 7.07:1, WCAG 2.1 AAA compliant.



5 Contrast issue; visual aesthetics.

All underlined text removed.

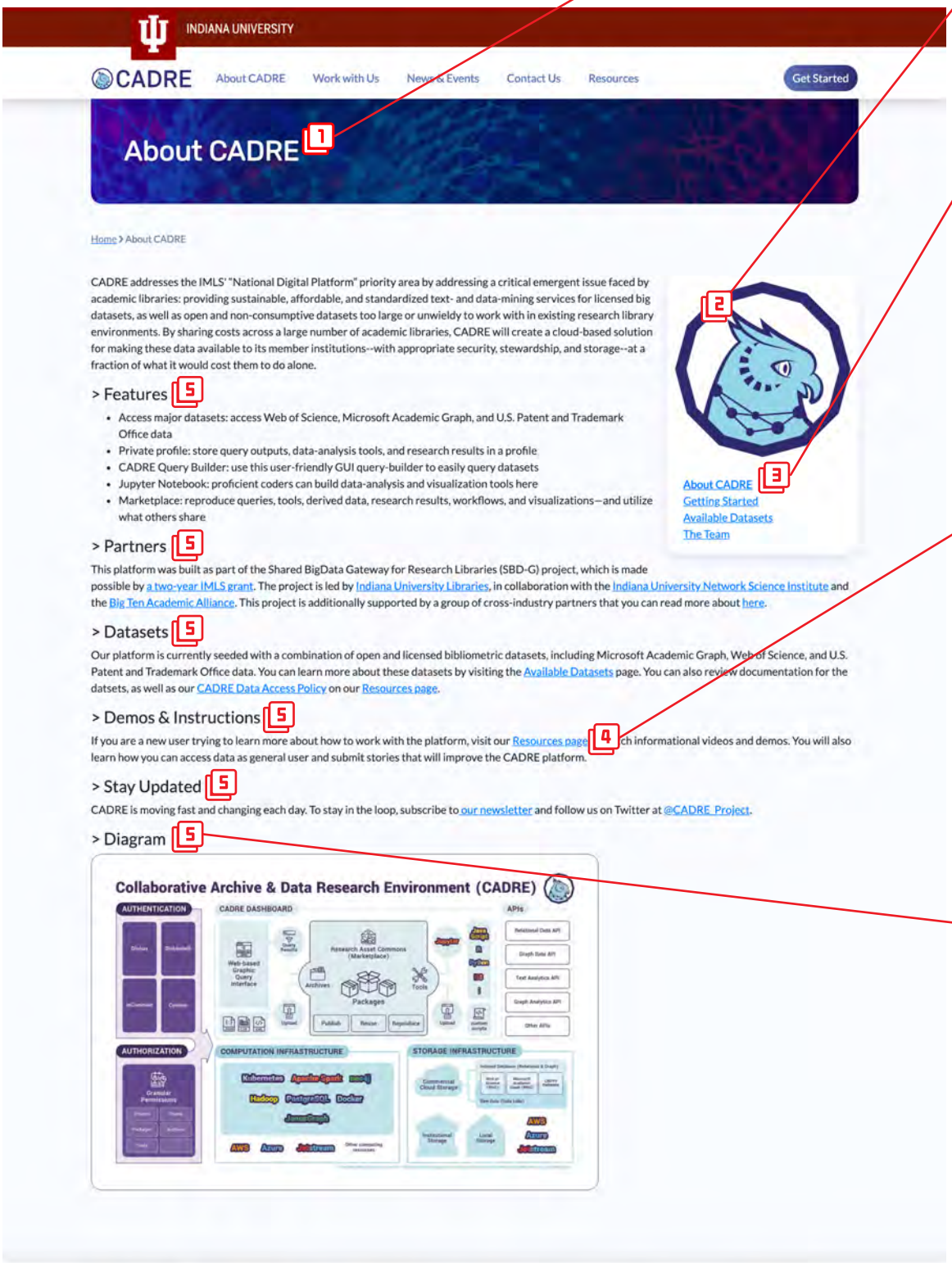
Font color of all links in footer changed to **#1451B3.**

Font size of top-level links updated to 1.2em from 1em.

Updated/added/removed links in the footer as needed.

CADRE WEBSITE
About CADRE

https://cadre.iu.edu/about-cadre



1 Structure & general accessibility.

Ensured the page title is <h1> for easy Assistive Technology navigation.

2 General accessibility.

Image missing alt text. Added "CADRE project logo" as alt text.

3 Contrast.

Text color for all breadcrumb links is updated to **#1451B3** from **#7285A3**. New contrast ratio 7.16:1, WCAG 2.1 AAA compliant.

4 Contrast; readability.

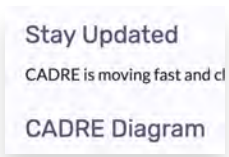
Text color for all text links updated to **#1451B3** from **#007BFF**, including all in-paragraph links. New contrast ratio 7.34:1, WCAG 2.1 AAA compliant.

Content font size updated to 1.1em.

5 Structure; general accessibility.

Removed bullets before each section title; made all section titles <h3> for better page structure.

See also other 5 on this page.

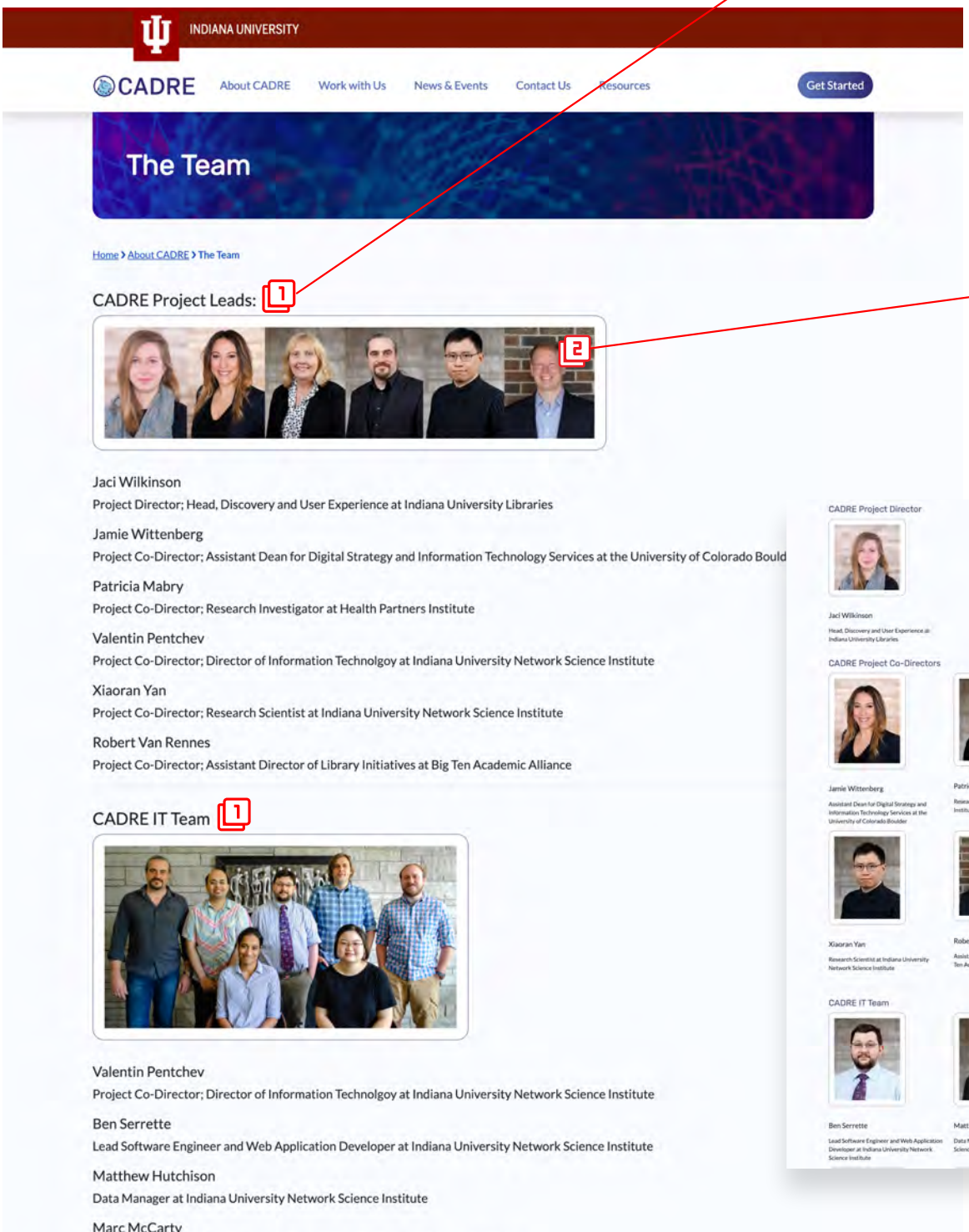


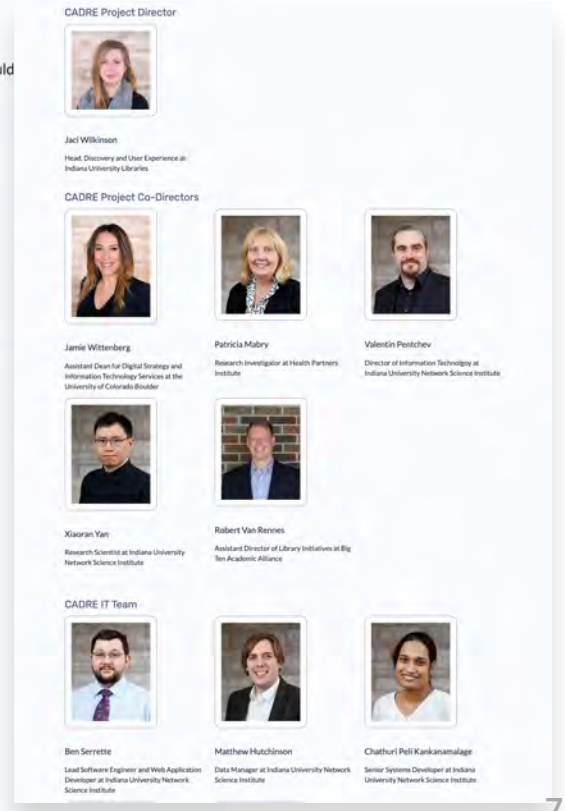
The following pages are not included in this report because they does not involve any major page-specific accessibility change and/or updates.

Getting Started (https://cadre.iu.edu/about-cadre/get-started)

Available Datasets (this page has been deprecated; useful content has been merged into other proper pages)

CADRE WEBSITE
About CADRE > The Team
https://cadre.iu.edu/about-cadre/the-team





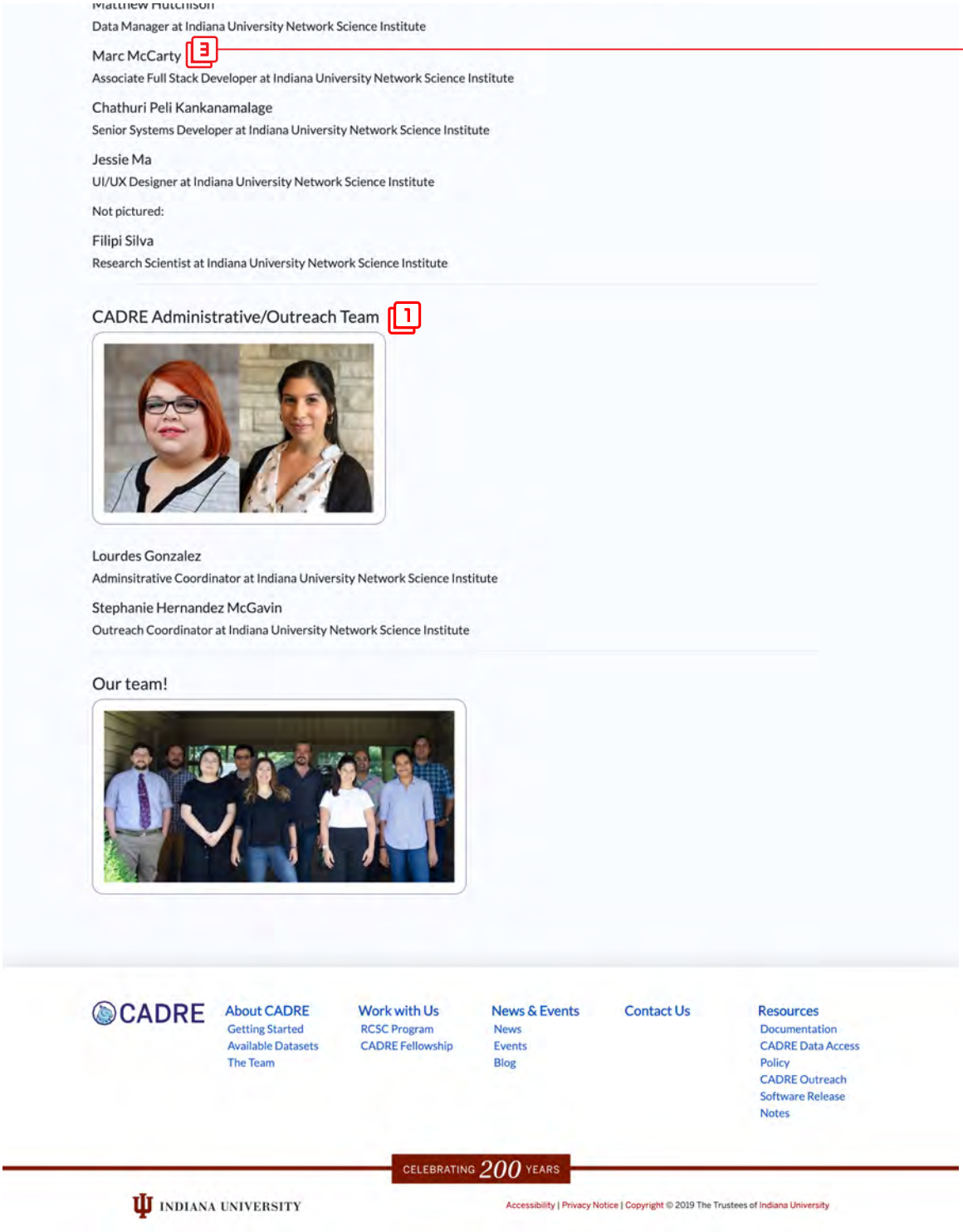
[1] Structure & general accessibility.

See also other [1] on this and the next page.

Made all section titles <h3> with text color **#4D5575**, proving contrast ratio of 7.07:1 against the background (#FAFBFF) which is WCAG AAA 2.1 compliant.

[2] Readability; visual aesthetics.

New layout improved readability, made the page layout more efficient.



Structure & general accessibility.

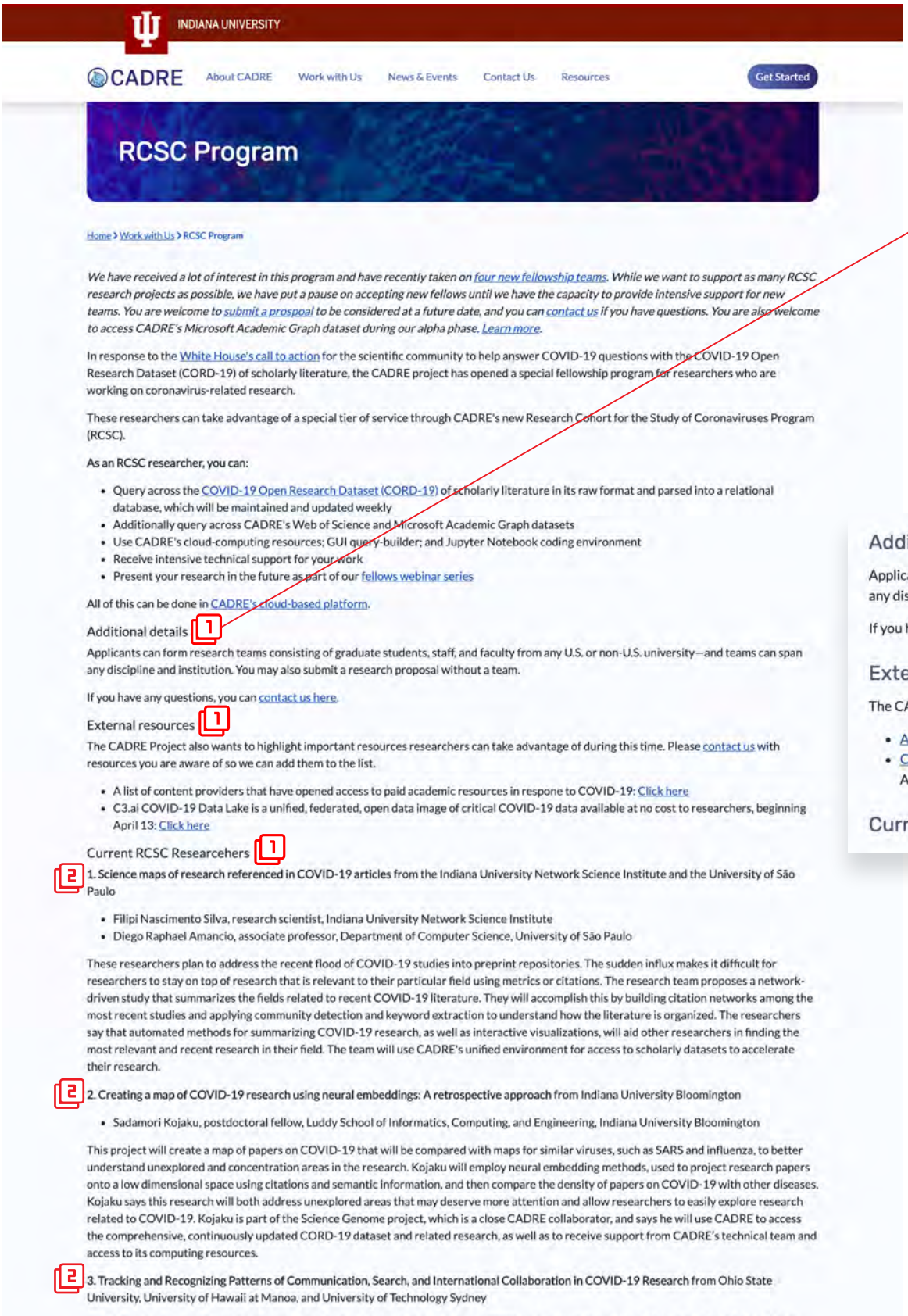
Made all names <h5>. Contrast ratio: 14.91:1 (**#212529** against #FAFBFF), WCAG AAA 2.1 compliant.

Since there are many names on this page, they are not all marked indiviudally.

The following pages are not included in this report because they does not involve any major page-specific accessibility change and/or update.

Work With Us (https://cadre.iu.edu/work-with-us)

CADRE WEBSITE
Work With Us > RCSC Program
https://cadre.iu.edu/work-with-us/rcsc-program



INDIANA UNIVERSITY

CADRE About CADRE Work with Us News & Events Contact Us Resources Get Started

RCSC Program

Home › Work with Us › RCSC Program

We have received a lot of interest in this program and have recently taken on four new fellowship teams. While we want to support as many RCSC research projects as possible, we have put a pause on accepting new fellows until we have the capacity to provide intensive support for new teams. You are welcome to submit a prospoal to be considered at a future date, and you can contact us if you have questions. You are also welcome to access CADRE's Microsoft Academic Graph dataset during our alpha phase. Learn more.

In response to the White House's call to action for the scientific community to help answer COVID-19 questions with the COVID-19 Open Research Dataset (CORD-19) of scholarly literature, the CADRE project has opened a special fellowship program for researchers who are working on coronavirus-related research.

These researchers can take advantage of a special tier of service through CADRE's new Research Cohort for the Study of Coronaviruses Program (RCSC).

As an RCSC researcher, you can:

- Query across the COVID-19 Open Research Dataset (CORD-19) of scholarly literature in its raw format and parsed into a relational database, which will be maintained and updated weekly
- Additionally query across CADRE's Web of Science and Microsoft Academic Graph datasets
- Use CADRE's cloud-computing resources; GUI query-builder; and Jupyter Notebook coding environment
- Receive intensive technical support for your work
- Present your research in the future as part of our fellows webinar series

All of this can be done in CADRE's cloud-based platform.

Additional details [1]

Applicants can form research teams consisting of graduate students, staff, and faculty from any U.S. or non-U.S. university—and teams can span any discipline and institution. You may also submit a research proposal without a team.

If you have any questions, you can contact us here.

External resources [1]

The CADRE Project also wants to highlight important resources researchers can take advantage of during this time. Please contact us with resources you are aware of so we can add them to the list.

- A list of content providers that have opened access to paid academic resources in respone to COVID-19: Click here
- C3.ai COVID-19 Data Lake is a unified, federated, open data image of critical COVID-19 data available at no cost to researchers, beginning April 13: Click here

Current RCSC Researcehers [1]

[2] **1. Science maps of research referenced in COVID-19 articles** from the Indiana University Network Science Institute and the University of São Paulo

- Filipi Nascimento Silva, research scientist, Indiana University Network Science Institute
- Diego Raphael Amancio, associate professor, Department of Computer Science, University of São Paulo

These researchers plan to address the recent flood of COVID-19 studies into preprint repositories. The sudden influx makes it difficult for researchers to stay on top of research that is relevant to their particular field using metrics or citations. The research team proposes a network-driven study that summarizes the fields related to recent COVID-19 literature. They will accomplish this by building citation networks among the most recent studies and applying community detection and keyword extraction to understand how the literature is organized. The researchers say that automated methods for summarizing COVID-19 research, as well as interactive visualizations, will aid other researchers in finding the most relevant and recent research in their field. The team will use CADRE's unified environment for access to scholarly datasets to accelerate their research.

[2] **2. Creating a map of COVID-19 research using neural embeddings: A retrospective approach** from Indiana University Bloomington

- Sadamori Kojaku, postdoctoral fellow, Luddy School of Informatics, Computing, and Engineering, Indiana University Bloomington

This project will create a map of papers on COVID-19 that will be compared with maps for similar viruses, such as SARS and influenza, to better understand unexplored and concentration areas in the research. Kojaku will employ neural embedding methods, used to project research papers onto a low dimensional space using citations and semantic information, and then compare the density of papers on COVID-19 with other diseases. Kojaku says this research will both address unexplored areas that may deserve more attention and allow researchers to easily explore research related to COVID-19. Kojaku is part of the Science Genome project, which is a close CADRE collaborator, and says he will use CADRE to access the comprehensive, continuously updated CORD-19 dataset and related research, as well as to receive support from CADRE's technical team and access to its computing resources.

[2] **3. Tracking and Recognizing Patterns of Communication, Search, and International Collaboration in COVID-19 Research** from Ohio State University, University of Hawaii at Manoa, and University of Technology Sydney

[1] Structure & general accessibility.

See other [1] in this page.

Made section titles <h4> instead of <h5> to optimize the overall page hierarchy.

Additional details

Applicants can form research teams consisting o
any discipline and institution. You may also subm

If you have any questions, you can contact us.

External resources

The CADRE Project also wants to highlight impo

- A list of content providers that have opened
- C3.ai COVID-19 Data Lake is a unified, fede
April 13.

Current RCSC Researchers

- Caroline Wagner, associate professor and Milton & Roslyn Wolf Chair in International Affairs, John Glenn College of Public Affairs, Ohio State University
- Xiaojing Cai, visiting fellow, John Glenn College of Public Affairs, Ohio State University
- Caroline V. Fry, assistant professor, Shidler College of Business, University of Hawaii at Manoa
- Yi Zhang, lecturer, Centre for Artificial Intelligence, Faculty of Engineering and Information Technology, University of Technology Sydney, Australia

This research team plans to study the international collaborations that are forming to perform COVID-19 research. The researchers say the combination of an intense research focus and a demand for quick results provides a rare opportunity for social scientists who study collaboration, teaming, and science dynamics. The team added that the abundant informal communications and knowledge sharing among scientists to address COVID-19 is rare. All of these circumstances have created an opportunity for the researchers to study team formations in real-time with CADRE. They plan to take advantage of CADRE's datasets and technical team for their research. Two team mebers (Wagner and Cai) are also currently using CADRE for another CADRE Fellowship project.

4. Study of Pandemic Publishing: How Scholarly Literature is Affected by COVID-19 Pandemic from the University of Michigan

- Yulia Sevryugina, chemistry librarian, Shapiro Science Library, University of Michigan, Ann Arbor
- Andrew Dicks, undergraduate student assistant, University of Michigan, Ann Arbor

Yulia Sevryugina's project will address the quality of recently published COVID-19 publications. Sevryugina says COVID-19 related research is being performed and published hastily. She adds that turnaround times for medical journal publications have decreased by almost 50 percent. Speedy research and condensed publication timelines contribute to a lack of scientific rigor and increase the likelihood of corrections and retractions, leading to the spread of false information in trusted journals. Sevryugina will study the quality of COVID-19 related scholarly works by using CADRE's datasets to identify signs of incoherency, irreproducibility, and haste. That includes analyzing COVID-19 published literature for incoherent writing, stylistic errors, plagiarism, speculative language, unreproducible experiments, and far-fetched conclusions based on poor quality data. She will also examine retracted and corrected manuscripts and explore their citation maps to understand how errors propagate through scholarly literature. Sevryugina hopes her research will help others find the balance between expediting publication timelines and maintaining research quality.

Structure & general accessibility.

See other 2 in the previous page.

Made titles of researchers <h5> with the additional use of over names of the researchers (institutional information of each researcher is regular <h5>).

Additionally, dividers are added between each research.

INDIANA UNIVERSITY

Study of Pandemic Publishing: How Scholarly Literature is Affected by COVID-19 Pandemic from the University of Michigan

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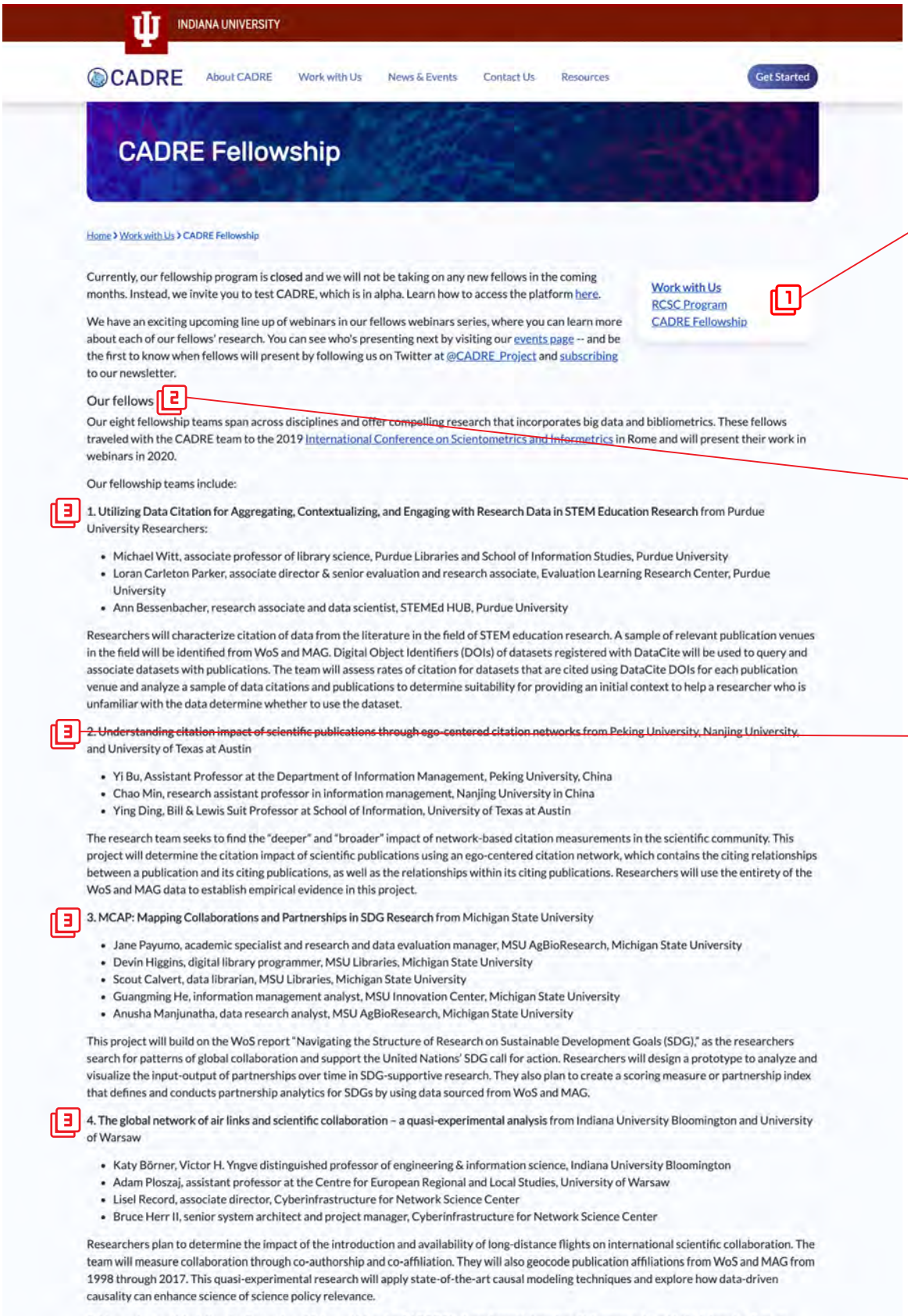
CADRE WEBSITE
Work With Us > CADRE Fellowship
https://cadre.iu.edu/work-with-us/cadre-fellowship



INDIANA UNIVERSITY

CADRE About CADRE Work with Us News & Events Contact Us Resources Get Started

CADRE Fellowship

Home › Work with Us › CADRE Fellowship

Currently, our fellowship program is closed and we will not be taking on any new fellows in the coming months. Instead, we invite you to test CADRE, which is in alpha. Learn how to access the platform here.

We have an exciting upcoming line up of webinars in our fellows webinars series, where you can learn more about each of our fellows' research. You can see who's presenting next by visiting our events page -- and be the first to know when fellows will present by following us on Twitter at @CADRE_Project and subscribing to our newsletter.

Work with Us
RCSC Program
CADRE Fellowship

Our fellows

Our eight fellowship teams span across disciplines and offer compelling research that incorporates big data and bibliometrics. These fellows traveled with the CADRE team to the 2019 International Conference on Scientometrics and Informetrics in Rome and will present their work in webinars in 2020.

Our fellowship teams include:

1. Utilizing Data Citation for Aggregating, Contextualizing, and Engaging with Research Data in STEM Education Research from Purdue University Researchers:

- Michael Witt, associate professor of library science, Purdue Libraries and School of Information Studies, Purdue University
- Loran Carleton Parker, associate director & senior evaluation and research associate, Evaluation Learning Research Center, Purdue University
- Ann Bessenbacher, research associate and data scientist, STEMEd HUB, Purdue University

Researchers will characterize citation of data from the literature in the field of STEM education research. A sample of relevant publication venues in the field will be identified from WoS and MAG. Digital Object Identifiers (DOIs) of datasets registered with DataCite will be used to query and associate datasets with publications. The team will assess rates of citation for datasets that are cited using DataCite DOIs for each publication venue and analyze a sample of data citations and publications to determine suitability for providing an initial context to help a researcher who is unfamiliar with the data determine whether to use the dataset.

2. Understanding citation impact of scientific publications through ego-centered citation networks from Peking University, Nanjing University, and University of Texas at Austin

- Yi Bu, Assistant Professor at the Department of Information Management, Peking University, China
- Chao Min, research assistant professor in information management, Nanjing University in China
- Ying Ding, Bill & Lewis Suit Professor at School of Information, University of Texas at Austin

The research team seeks to find the "deeper" and "broader" impact of network-based citation measurements in the scientific community. This project will determine the citation impact of scientific publications using an ego-centered citation network, which contains the citing relationships between a publication and its citing publications, as well as the relationships within its citing publications. Researchers will use the entirety of the WoS and MAG data to establish empirical evidence in this project.

3. MCAP: Mapping Collaborations and Partnerships in SDG Research from Michigan State University

- Jane Payumo, academic specialist and research and data evaluation manager, MSU AgBioResearch, Michigan State University
- Devin Higgins, digital library programmer, MSU Libraries, Michigan State University
- Scout Calvert, data librarian, MSU Libraries, Michigan State University
- Guangming He, information management analyst, MSU Innovation Center, Michigan State University
- Anusha Manjunatha, data research analyst, MSU AgBioResearch, Michigan State University

This project will build on the WoS report "Navigating the Structure of Research on Sustainable Development Goals (SDG)," as the researchers search for patterns of global collaboration and support the United Nations' SDG call for action. Researchers will design a prototype to analyze and visualize the input-output of partnerships over time in SDG-supportive research. They also plan to create a scoring measure or partnership index that defines and conducts partnership analytics for SDGs by using data sourced from WoS and MAG.

4. The global network of air links and scientific collaboration – a quasi-experimental analysis from Indiana University Bloomington and University of Warsaw

- Katy Börner, Victor H. Yngve distinguished professor of engineering & information science, Indiana University Bloomington
- Adam Ploszaj, assistant professor at the Centre for European Regional and Local Studies, University of Warsaw
- Lisel Record, associate director, Cyberinfrastructure for Network Science Center
- Bruce Herr II, senior system architect and project manager, Cyberinfrastructure for Network Science Center

Researchers plan to determine the impact of the introduction and availability of long-distance flights on international scientific collaboration. The team will measure collaboration through co-authorship and co-affiliation. They will also geocode publication affiliations from WoS and MAG from 1998 through 2017. This quasi-experimental research will apply state-of-the-art causal modeling techniques and explore how data-driven causality can enhance science of science policy relevance.

1 Structure.

Removed this secondary navigation since links to these three pages can be found in the footer.

2 Structure & general accessibility.

Made the section title <h4> instead of <h5> as an optimization to the overall page hierarchy.

3 Structure & general accessibility.

Made titles of fellowship teams <h5>, and removed numeric orders.

See also other 3 on the next page.

team will measure collaboration through co-authorship and co-affiliation. They will also geocode publication affiliations from WoS and MAG from 1998 through 2017. This quasi-experimental research will apply state-of-the-art causal modeling techniques and explore how data-driven causality can enhance science of science policy relevance.

5. Measuring and Modeling the Dynamics of Science Using the CADRE Platform from University of Minnesota, New York University, Boston University, University of Pennsylvania, University of Arizona

- Russell Funk, assistant professor of strategic management & entrepreneurship, University of Minnesota
- Michael Park, Ph.D. student in strategic management and entrepreneurship, University of Minnesota
- Thomas Gebhart, Ph.D. student in computer science and engineering, University of Minnesota
- Britta Glennon, assistant professor at Wharton School, University of Pennsylvania
- Julia Lane, professor at Wagner Graduate School of Public Service, New York University
- Raviv Murciano-Goroff, assistant professor at Questrom School of Business, Boston University
- Matthew Ross, research assistant professor at Wagner Graduate School of Public Service, New York University
- Erin Leahey, professor and director of sociology, University of Arizona
- Jina Lee, Ph.D. student in sociology, University of Arizona

This research team wants to better characterize scientific influence of papers, typically measured by how many times papers are cited, by distinguishing between papers that destabilize existing knowledge with novel concepts and papers that consolidate existing knowledge. In a separate but closely related aim, the researchers also plan to create a novel unsupervised machine learning technique for author-name disambiguation by pulling abstract, title, and citation data from WoS and MAG. For both aims, the CADRE platform will provide essential infrastructure in terms of large-scale data storage and high performance computational resources.

6. Comparative analysis of legacy and emerging journals in mathematical biology from University of Michigan and University of Michigan Medical School

- Marisa Conte, assistant director of research & informatics, Taubman Health Sciences Library, University of Michigan
- Samuel Hansen, mathematics and statistics librarian, Shapiro Science Library, University of Michigan
- Scott Martin, biological sciences librarian, Shapiro Science Library, University of Michigan
- Santiago Schnell, John A. Jacquez collegiate professor of physiology, University of Michigan Medical School

Researchers will perform a comparative analysis on papers published in four mathematical biology legacy journals and on newer journals with different publication models and disciplinary scope. The team will use the CADRE datasets to develop methodologies for comparative bibliometrics and content analyses; provide insight into publication trends in theoretical and applied domains; give authors new factors to consider when trying to publish; and help editors in similar disciplines use informatics to distinguish their journals.

7. Systematic over-time study of the similarities and differences in research across mathematics and the sciences from University of Michigan

- Samuel Hansen, mathematics and statistics librarian, Shapiro Science Library, University of Michigan

Samuel's project uses reference and citation aging, bibliographic coupling, and network breadth and depth to find similarities and differences between research fields in mathematics and the sciences. Specifically, they will find how information ages differently across disciplines, generate data about changes in the development of these research fields, and study how actively collaborative the disciplines are. Samuel will use WoS data from 1900 to 2017 to perform these analyses, which have typically only been done on a smaller scale in a single discipline.

8. Assessing the rise of China as a scientific nation from The Ohio State University

- Caroline Wagner, associate professor, Milton & Roslyn Wolf Chair in International Affiars, John Glenn College of Public Affairs, The Ohio State University
- Xiaojing Cai, visiting fellow, John Glenn College of Public Affairs, The Ohio State University

This project is part of a series of studies in which researchers are assessing the rise of China in scholarship. In particular, the project aims to provide a comprehensive assessment of the nature of China's publications in science and engineering over the past 20 years. One part of the study will be to examine the published scholarship from China and by Chinese nationals abroad. This will include case studies of specific fields, as well as macro overviews of the output, its impact, and the collaborations involved in China's rise. The team will use Web of Science and Microsoft Academic Graph to perform this research.

CADRE WEBSITE
News & Events
https://cadre.iu.edu/news-and-events

1 General accessibility.

Previously, these section titles were clickable and looked like buttons. They are now all plain-text <h3> in **#4D5575**, contrast ratio 7.07:1, WCAG 2.1 AAA compliant.

See also other 1 in this page.

2 Contrast.

Updated text link color to **#1451B3**, contrast ratio 7.07:1, WCAG 2.1 AAA compliant.

See also other 2 in this page.

3 Contrast.

Changed title text color from **#677FBD** to **#5B72B7**, providing a contrast ratio of 4.63:1, WCAG 2.1 AA compliant.

See also other 3 in this page.

4 Contrast.

Changed text color from **#838896** to **#525860**, providing a contrast ratio of 7.18:1, WCAG 2.1 AAA compliant.

See also other 4 in this page.

5 Contrast.

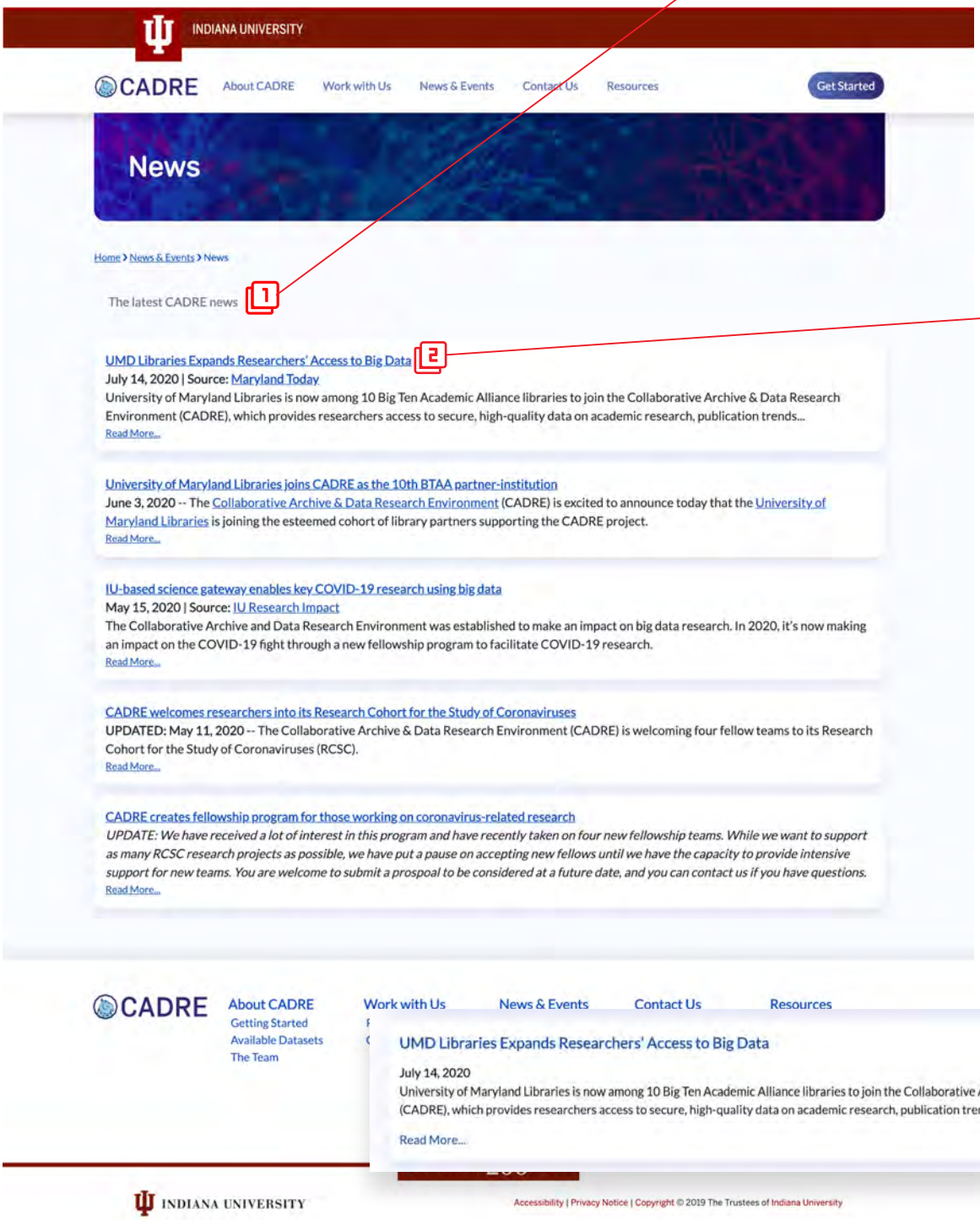
Changed button color from **#5B72B7** to **#1451B3**, providing a contrast ratio of 7.34:1, WCAG 2.1 AAA compliant.

See also other 5 on this page.

CADRE WEBSITE

News & Events > News

https://cadre.iu.edu/news-and-events/news



1 General accessibility and contrast.

Made this text an <h4>, meaning larger font size and more Assistive Technology friendly; changed color from **#646C81** to **#212529**, providing stronger contrast.

2 Readability; visual aesthetics; consistency.

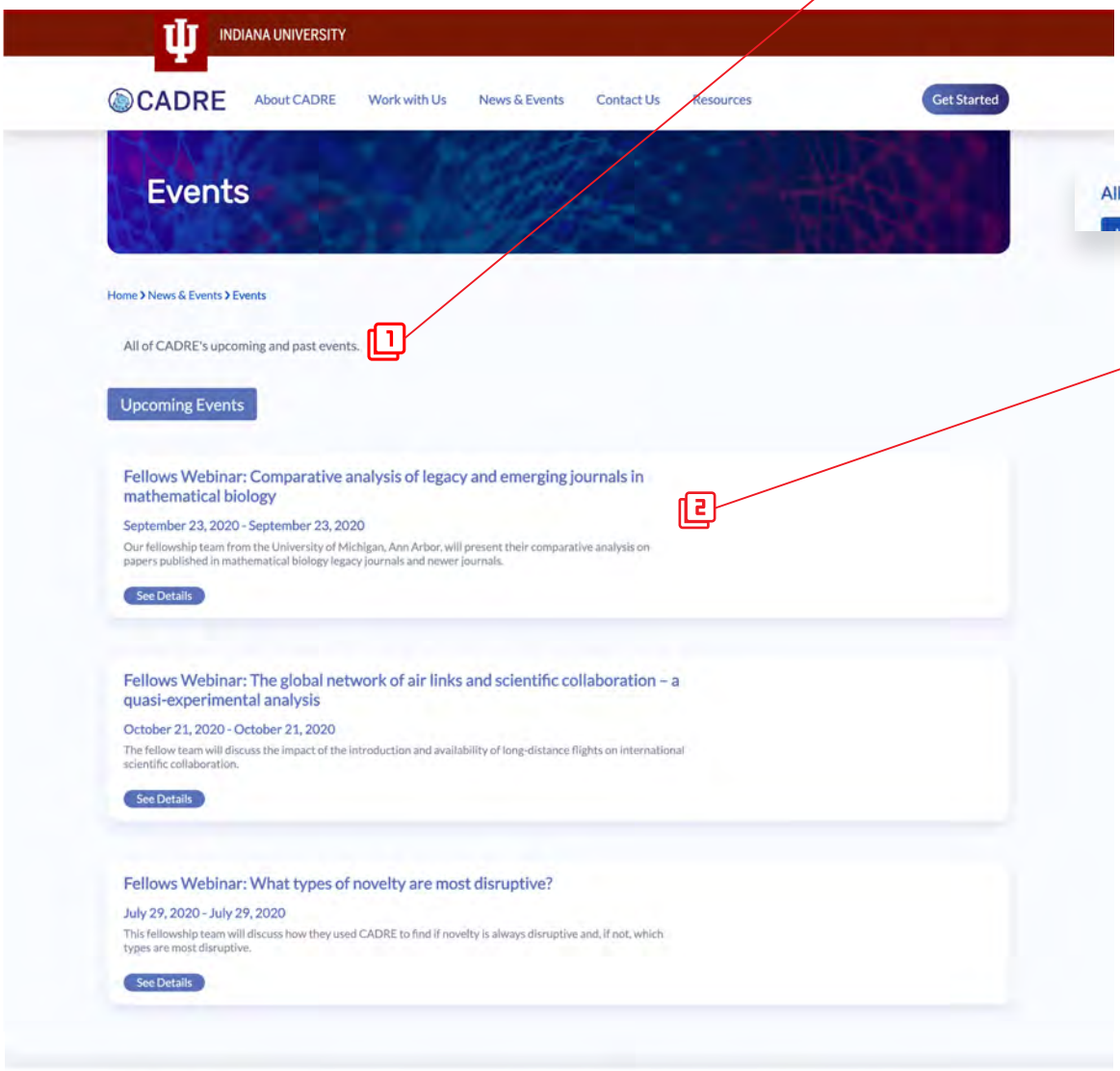
Enlarged font size of all card titles (i.e. news titles) from 1em to 1.25em.

Normalized the format of data and source for each news entry.

Removed underline for all titles since text color difference is already sufficient in identifying titles as links.

Added space between the title, the preview paragraph, and the Read More link.

CADRE WEBSITE
News & Events > Events
https://cadre.iu.edu/news-and-events/events



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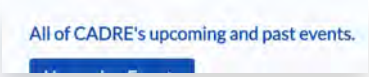
Made this text an <h4>, meaning larger font size and more Assistive Technology friendly; changed color from **#646C81** to **#1451B3**, providing stronger contrast.



2 General accessibility.

For all event titles, changed text color to **#1451B3** for better contrast.

For all Event Dates, enlarged font size to 1.1em, and changed text color to **#1451B3** for better contrast.

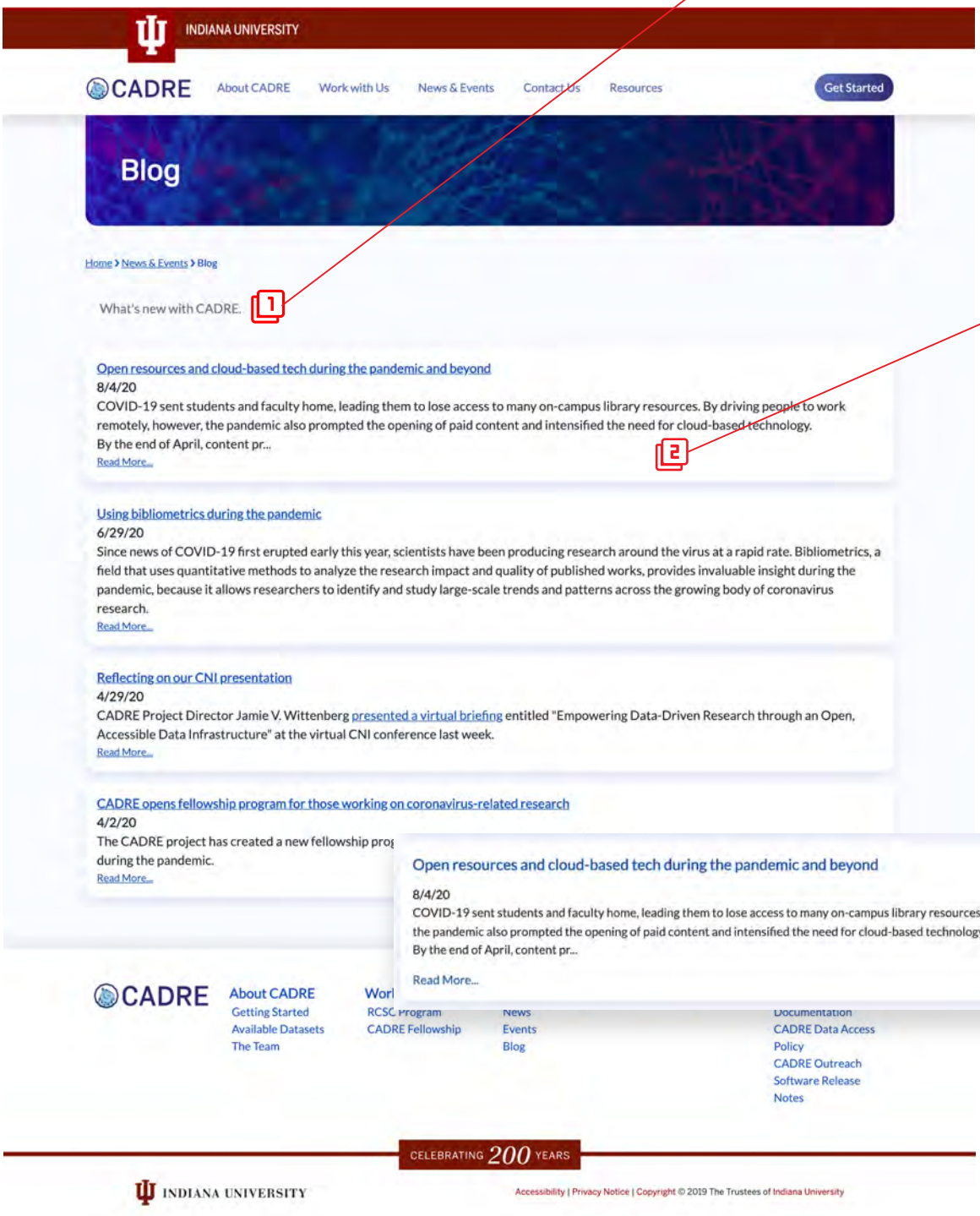
For all Event Preview text, changed text color to **#212529** for better contrast.

Changed See Details button background color to **#1451B3**.

CADRE WEBSITE

News & Events > Blog

https://cadre.iu.edu/news-and-events/blog



1 General accessibility and contrast.

Made this text an <h4>, meaning larger font size and more Assistive Technology friendly; changed color from **#646C81** to **#212529**, providing stronger contrast.

2 Readability; visual aesthetics; consistency.

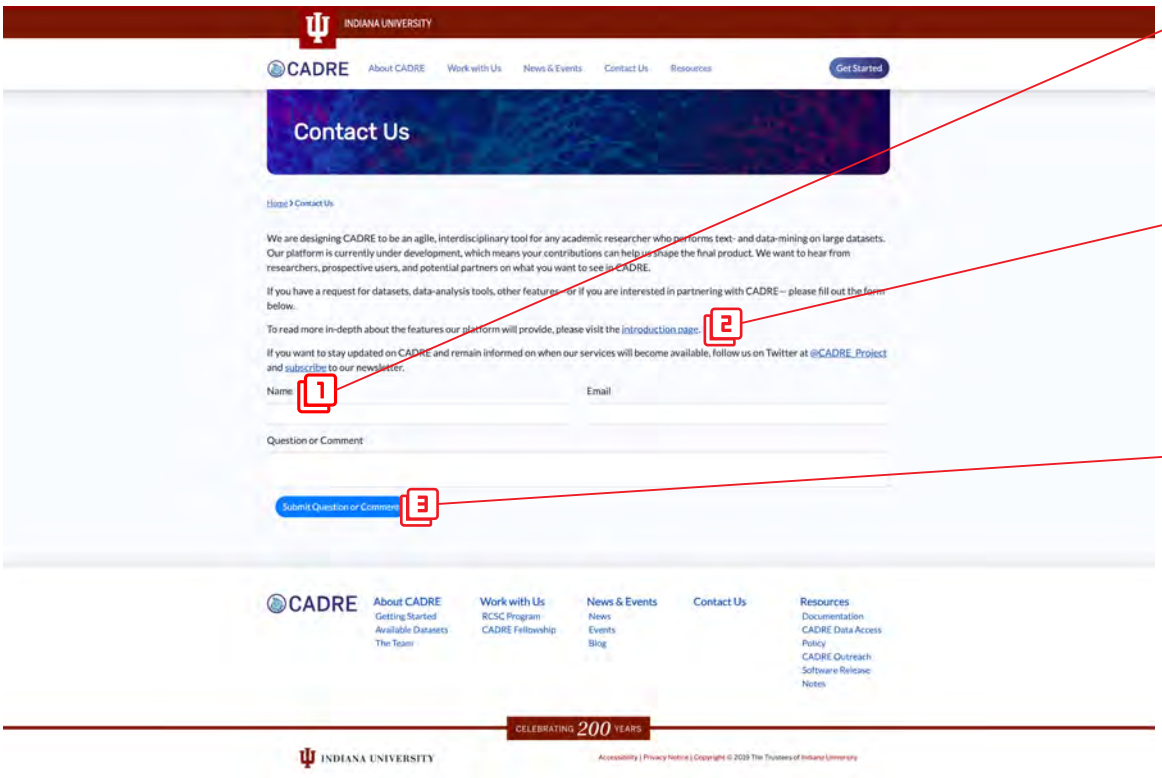
For all event titles, changed text color to **#1451B3** for better contrast; removed underline; enlarged font size to 1.25em.

Added space between blog post title and date.

For all Read More... text links, changed text color to **#1451B3**.

CADRE WEBSITE
Contact Us

https://cadre.iu.edu/contact-us



1 Semantics.

Added correct ARIA labels for the feedback form.

2 Contrast.

For all text links, changed text color to **#1451B3** for better contrast.

3 UX copywriting.

Changed button label to **Submit** to make label shorter, clearer, and cognitively easier.

CADRE WEBSITE
Resources
https://cadre.iu.edu/resources

1 Structure.

Made section titles <h3> instead of <h4>.

See also other 1 on this page.

2 Structure; readability; visual aesthetics.

Made all video titles <h4> instead of unordered list items.

Additionally, added top and bottom margin to all video titles so the page looks more spacially arranged.

Applies to all items marked 2 on this page.

- MCAP: Mapping Collaborations and Partnerships in SDG Research

- Assessing the Rise of China as a Scientific Nation

Data Access/General User Application:

To request data access, please first read the CADRE Data Access Policy. You can then complete the CADRE General Data User Application. Upon approval, data enclave access is provided by IUNI Data Manager Matthew Hutchinson.

- CADRE Data Access Policy
- CADRE General Data User Application Form

User Story Collection Form

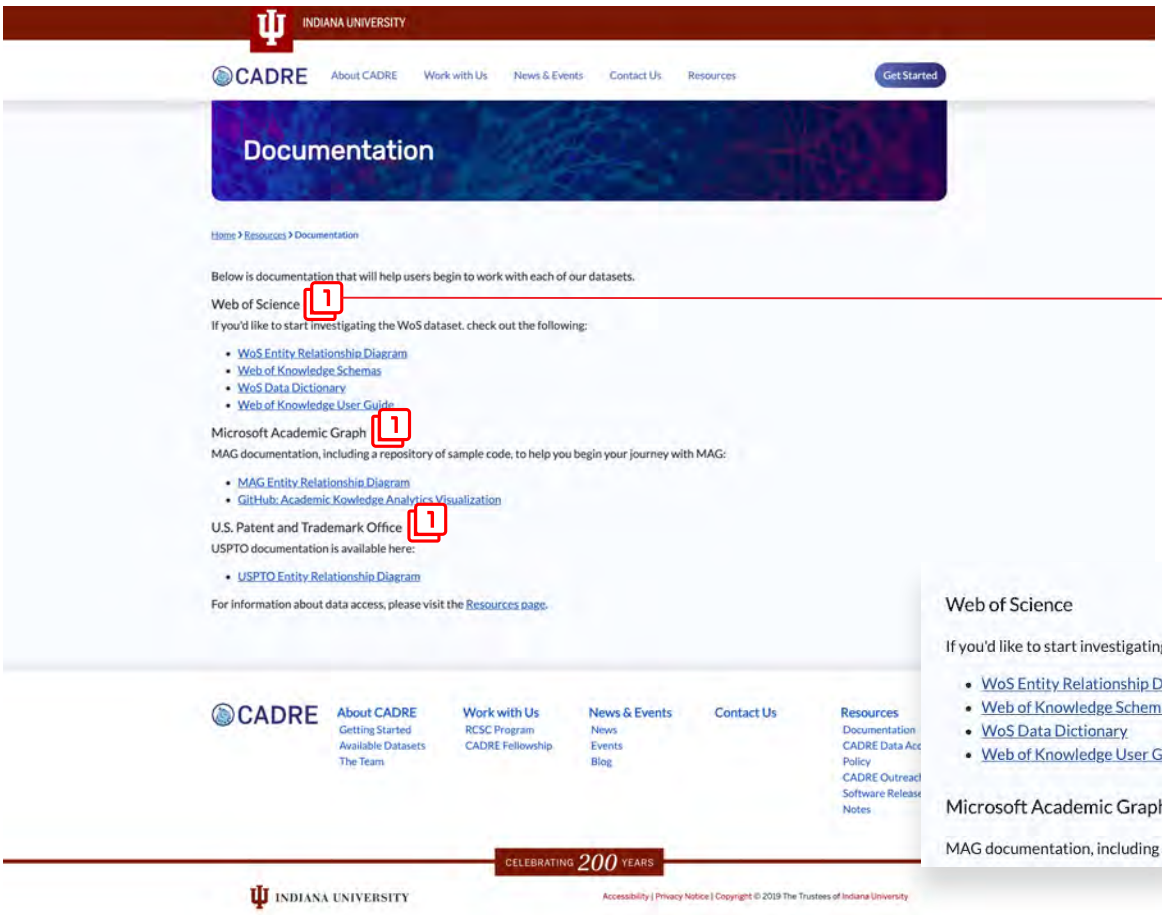
We rely heavily on user stories and use cases to create a platform that is helpful to every type of academic researcher. To tell us what you want to see in our platform, share your user story. Please note, this form takes you to the IU Network Science Institute website.

- User Story Form.

CADRE WEBSITE

Resources > Documentation

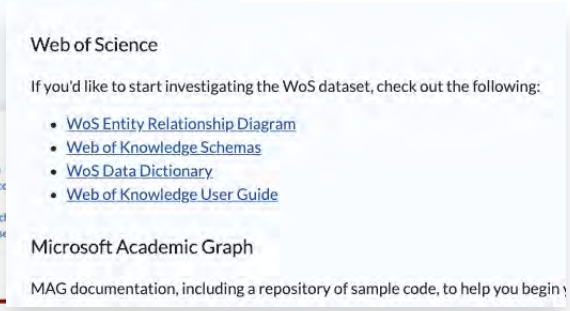
https://cadre.iu.edu/resources/documentation



Structure.

Made section titles <h4> instead of <h5>; added space below section titles.

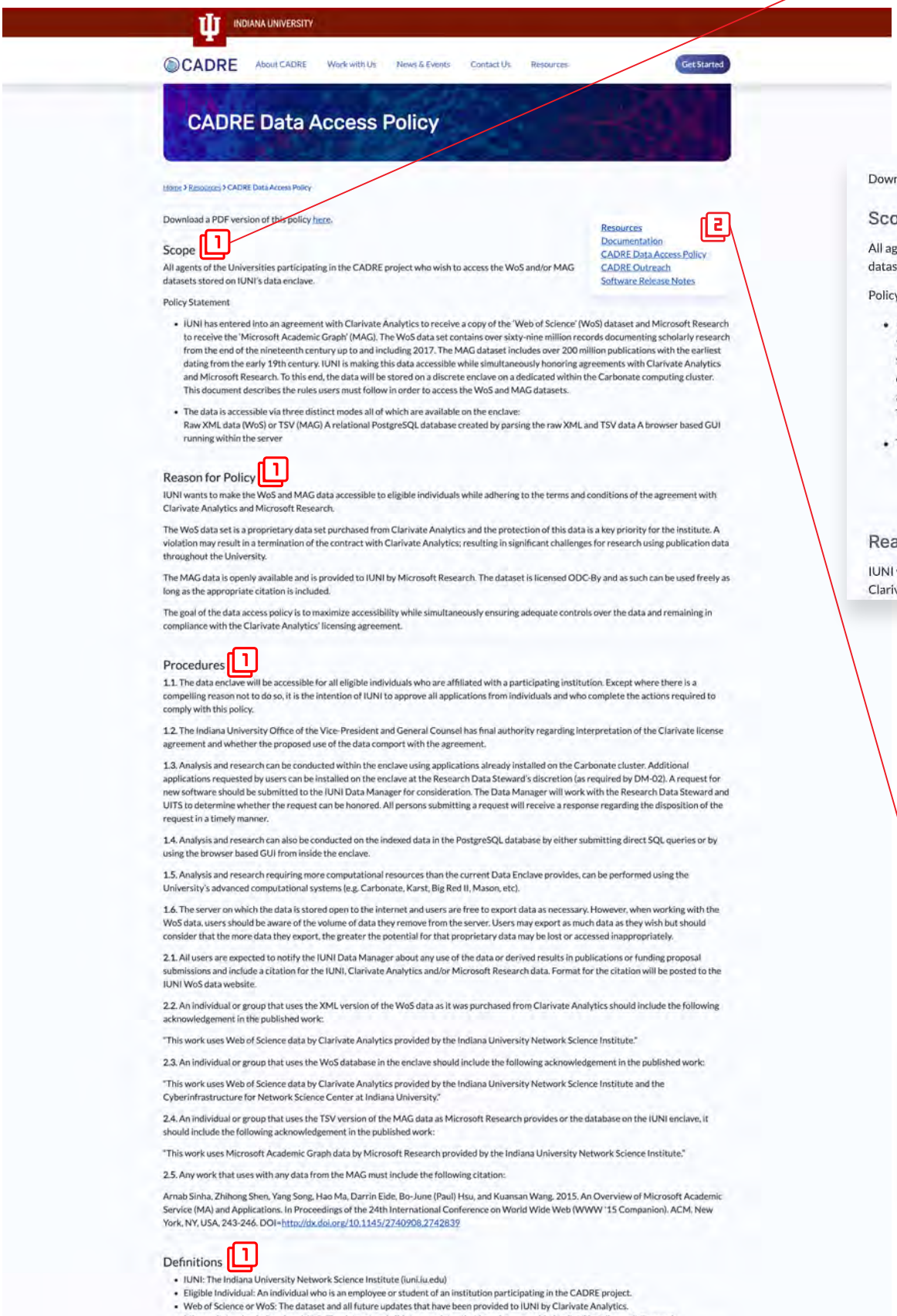
See also other on this page.



CADRE WEBSITE

Resources > CADRE Data Access Policy

https://cadre.iu.edu/resources/data-access-policy



INDIANA UNIVERSITY

CADRE About CADRE Work with Us News & Events Contact Us Resources Get Started

CADRE Data Access Policy

Home > Resources > CADRE Data Access Policy

Download a PDF version of this policy here.

Resources
Documentation
CADRE Data Access Policy
CADRE Outreach
Software Release Notes

Scope

All agents of the Universities participating in the CADRE project who wish to access the WoS and/or MAG datasets stored on IUNI's data enclave.

Policy Statement

- IUNI has entered into an agreement with Clarivate Analytics to receive a copy of the 'Web of Science' (WoS) dataset and Microsoft Research to receive the 'Microsoft Academic Graph' (MAG). The WoS data set contains over sixty-nine million records documenting scholarly research from the end of the nineteenth century up to and including 2017. The MAG dataset includes over 200 million publications with the earliest dating from the early 19th century. IUNI is making this data accessible while simultaneously honoring agreements with Clarivate Analytics and Microsoft Research. To this end, the data will be stored on a discrete enclave on a dedicated within the Carbonate computing cluster. This document describes the rules users must follow in order to access the WoS and MAG datasets.
- The data is accessible via three distinct modes all of which are available on the enclave:
  Raw XML data (WoS) or TSV (MAG) A relational PostgreSQL database created by parsing the raw XML and TSV data A browser based GUI running within the server

Reason for Policy

IUNI wants to make the WoS and MAG data accessible to eligible individuals while adhering to the terms and conditions of the agreement with Clarivate Analytics and Microsoft Research.

The WoS data set is a proprietary data set purchased from Clarivate Analytics and the protection of this data is a key priority for the institute. A violation may result in a termination of the contract with Clarivate Analytics; resulting in significant challenges for research using publication data throughout the University.

The MAG data is openly available and is provided to IUNI by Microsoft Research. The dataset is licensed ODC-By and as such can be used freely as long as the appropriate citation is included.

The goal of the data access policy is to maximize accessibility while simultaneously ensuring adequate controls over the data and remaining in compliance with the Clarivate Analytics' licensing agreement.

Procedures

1.1. The data enclave will be accessible for all eligible individuals who are affiliated with a participating institution. Except where there is a compelling reason not to do so, it is the intention of IUNI to approve all applications from individuals and who complete the actions required to comply with this policy.

1.2. The Indiana University Office of the Vice-President and General Counsel has final authority regarding interpretation of the Clarivate license agreement and whether the proposed use of the data comport with the agreement.

1.3. Analysis and research can be conducted within the enclave using applications already installed on the Carbonate cluster. Additional applications requested by users can be installed on the enclave at the Research Data Steward's discretion (as required by DM-02). A request for new software should be submitted to the IUNI Data Manager for consideration. The Data Manager will work with the Research Data Steward and UITS to determine whether the request can be honored. All persons submitting a request will receive a response regarding the disposition of the request in a timely manner.

1.4. Analysis and research can also be conducted on the indexed data in the PostgreSQL database by either submitting direct SQL queries or by using the browser based GUI from inside the enclave.

1.5. Analysis and research requiring more computational resources than the current Data Enclave provides, can be performed using the University's advanced computational systems (e.g. Carbonate, Karst, Big Red II, Mason, etc).

1.6. The server on which the data is stored open to the internet and users are free to export data as necessary. However, when working with the WoS data, users should be aware of the volume of data they remove from the server. Users may export as much data as they wish but should consider that the more data they export, the greater the potential for that proprietary data may be lost or accessed inappropriately.

2.1. All users are expected to notify the IUNI Data Manager about any use of the data or derived results in publications or funding proposal submissions and include a citation for the IUNI, Clarivate Analytics and/or Microsoft Research data. Format for the citation will be posted to the IUNI WoS data website.

2.2. An individual or group that uses the XML version of the WoS data as it was purchased from Clarivate Analytics should include the following acknowledgement in the published work:

"This work uses Web of Science data by Clarivate Analytics provided by the Indiana University Network Science Institute."

2.3. An individual or group that uses the WoS database in the enclave should include the following acknowledgement in the published work:

"This work uses Web of Science data by Clarivate Analytics provided by the Indiana University Network Science Institute and the Cyberinfrastructure for Network Science Center at Indiana University."

2.4. An individual or group that uses the TSV version of the MAG data as Microsoft Research provides or the database on the IUNI enclave, it should include the following acknowledgement in the published work:

"This work uses Microsoft Academic Graph data by Microsoft Research provided by the Indiana University Network Science Institute."

2.5. Any work that uses with any data from the MAG must include the following citation:

Arnab Sinha, Zhihong Shen, Yang Song, Hao Ma, Darrin Eide, Bo-June (Paul) Hsu, and Kuansan Wang. 2015. An Overview of Microsoft Academic Service (MA) and Applications. In Proceedings of the 24th International Conference on World Wide Web (WWW '15 Companion). ACM, New York, NY, USA, 243-246. DOI=http://dx.doi.org/10.1145/2740908.2742839

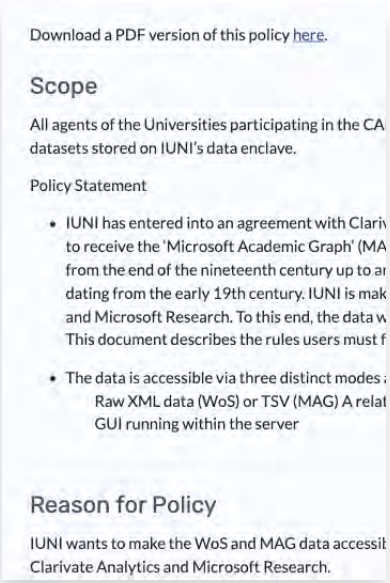
Definitions

- IUNI: The Indiana University Network Science Institute (iuni.iu.edu)
- Eligible Individual: An individual who is an employee or student of an institution participating in the CADRE project.
- Web of Science or WoS: The dataset and all future updates that have been provided to IUNI by Clarivate Analytics.

1 Structure.

Made section titles <h3> instead of <h4>.

See also other 1 on this page and the next page.



Download a PDF version of this policy here.

Scope

All agents of the Universities participating in the CA
datasets stored on IUNI's data enclave.

Policy Statement

- IUNI has entered into an agreement with Clariv
  to receive the 'Microsoft Academic Graph' (MA
  from the end of the nineteenth century up to ar
  dating from the early 19th century. IUNI is mak
  and Microsoft Research. To this end, the data w
  This document describes the rules users must f
- The data is accessible via three distinct modes
  Raw XML data (WoS) or TSV (MAG) A relat
  GUI running within the server

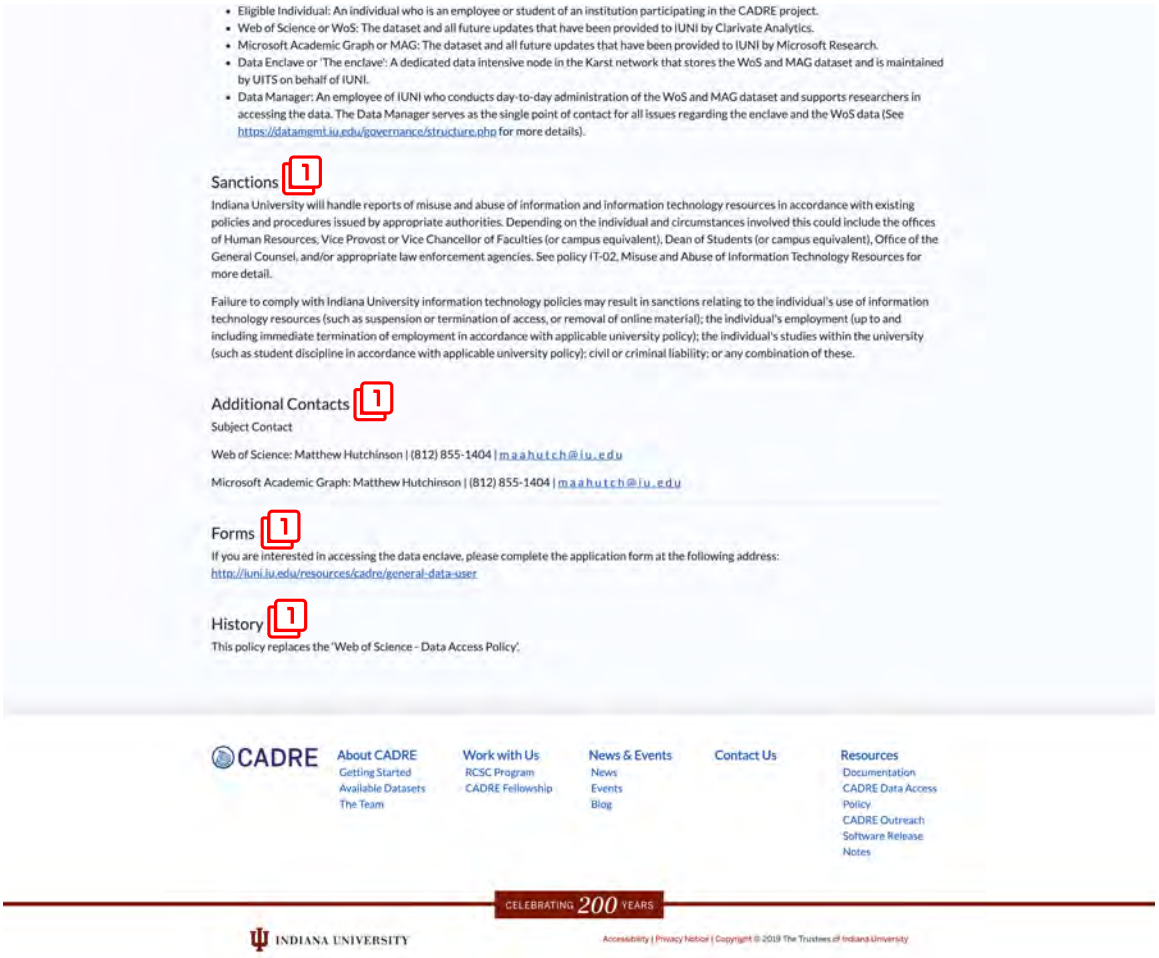
Reason for Policy

IUNI wants to make the WoS and MAG data accessib
Clarivate Analytics and Microsoft Research.

2 Visual aesthetics; readability.

For all text links in the navigation box, removed text underlines.

Resources
Documentation
CADRE Data Access Policy
Software Release Notes
DOI
SDG Research



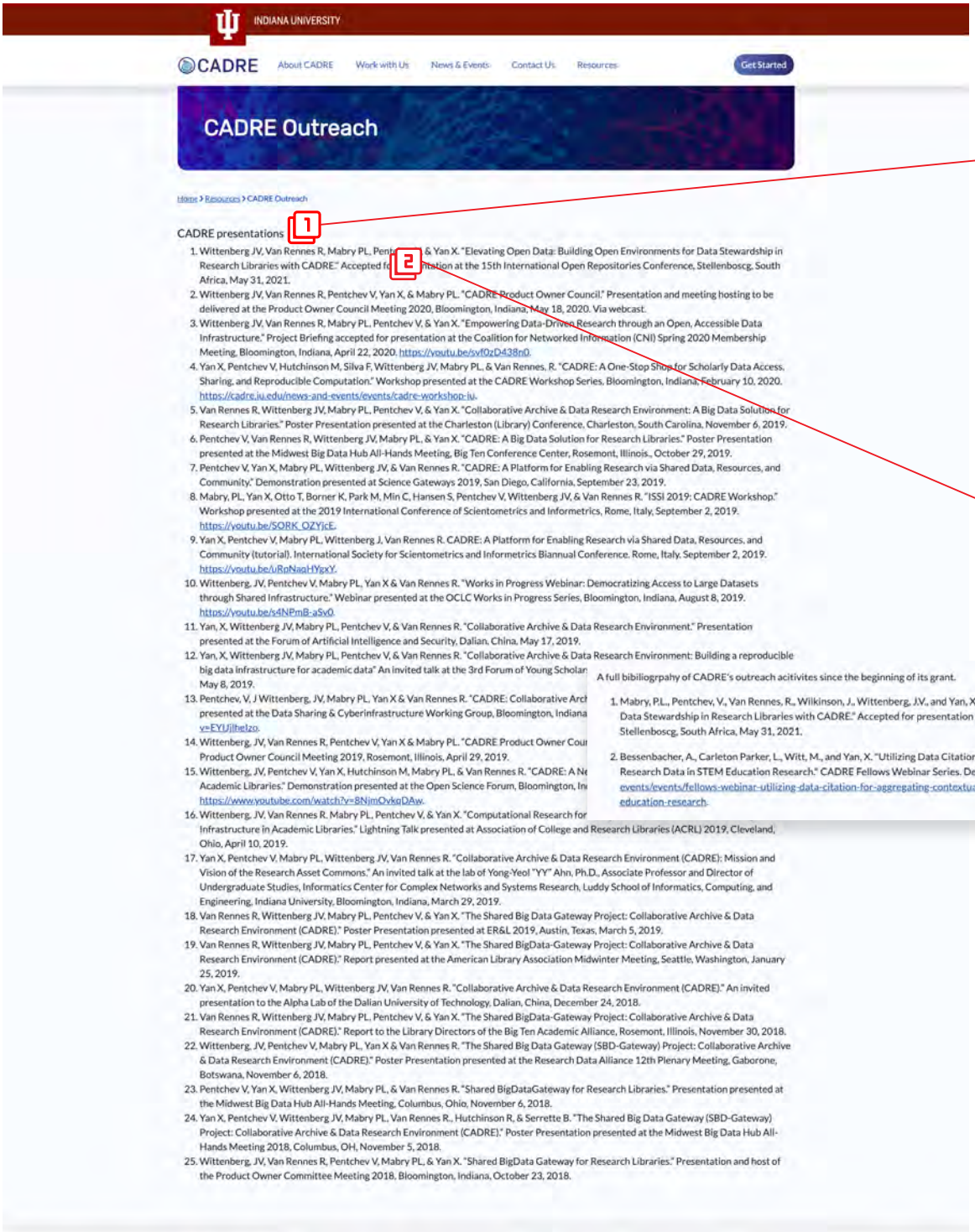
The **CADRE Outreach** page is included in the **Resources** section (on the next page), but in the updated website, it has been moved to the News & Events section; new URL to the page is:

https://cadre.iu.edu/news-and-events/outreach

CADRE WEBSITE

Resources > CADRE Outreach

new URL: https://cadre.iu.edu/news-and-events/outreach



1 UX Copywriting.

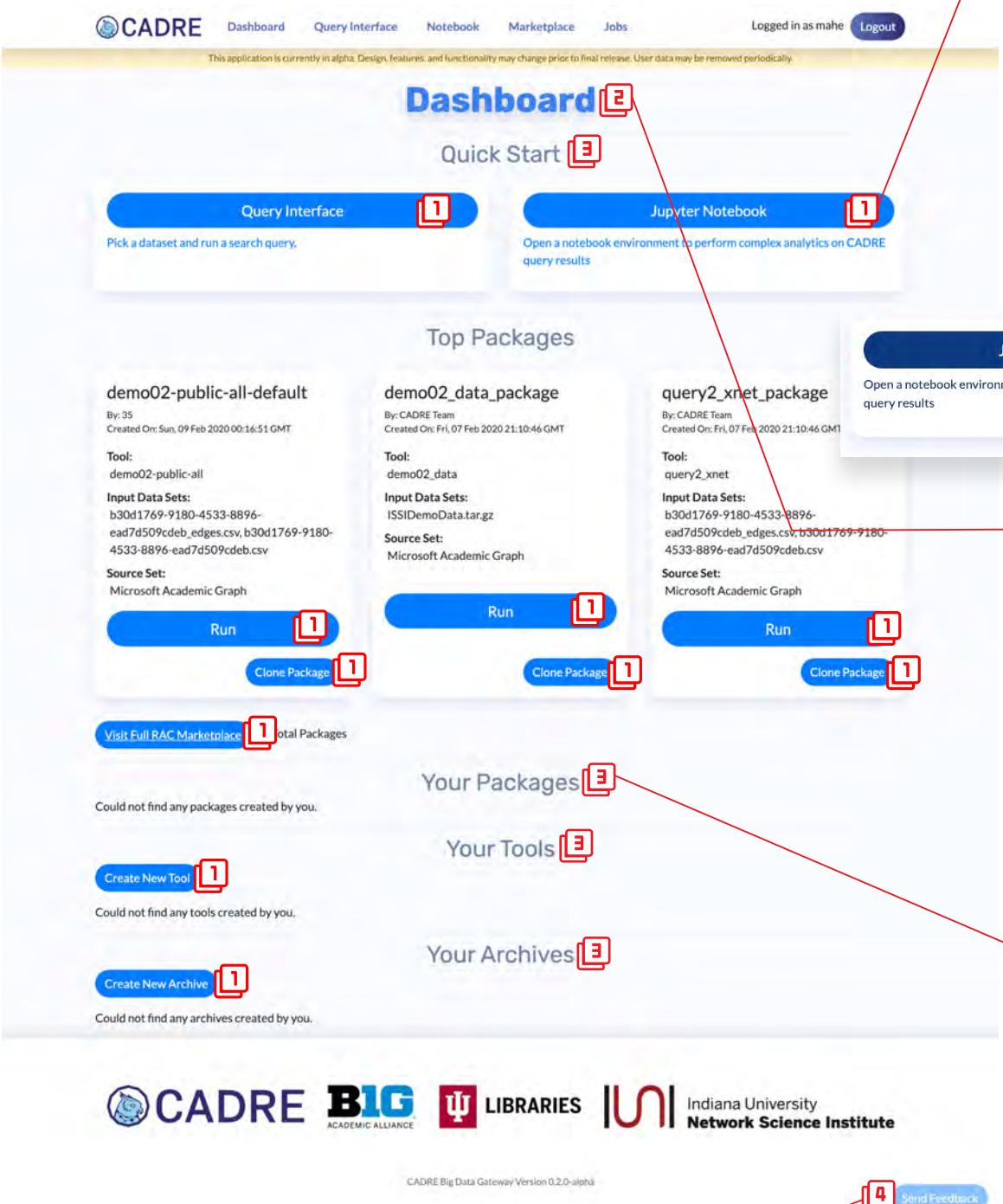
Changed the copywriting to "A full bibiliogrpahy of CADRE's outreach acitivites since the beginning of its grant." to make the page more understandable.

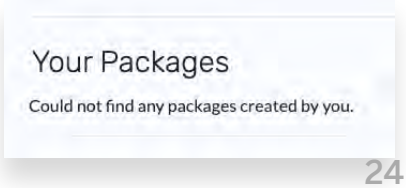
2 Visual aesthetics; readability.

Added 1em space between each listed items.

CADRE GATEWAY
Dashboard

https://cadre.iu.edu/gateway/





[1] Contrast.

Adjusted the button color universally from **#017BFF** to **#1451B3**, providing a 7.35:1 contrast ratio against the #FFFFFF card background and button label texts; WCAG 2.1 AAA compliant.

Applies to all items marked with [1] on this page.

[2] Visual aesthetics.

For all <h2>s in Gateway, added spaces above and below the text, giving all page titles more space.

[3] Visual aesthetics.

For all <h3> in Gateway, changed text alignment to left-aligned, enlarged font size to 1.75em, made line height larger, added surrounding space.

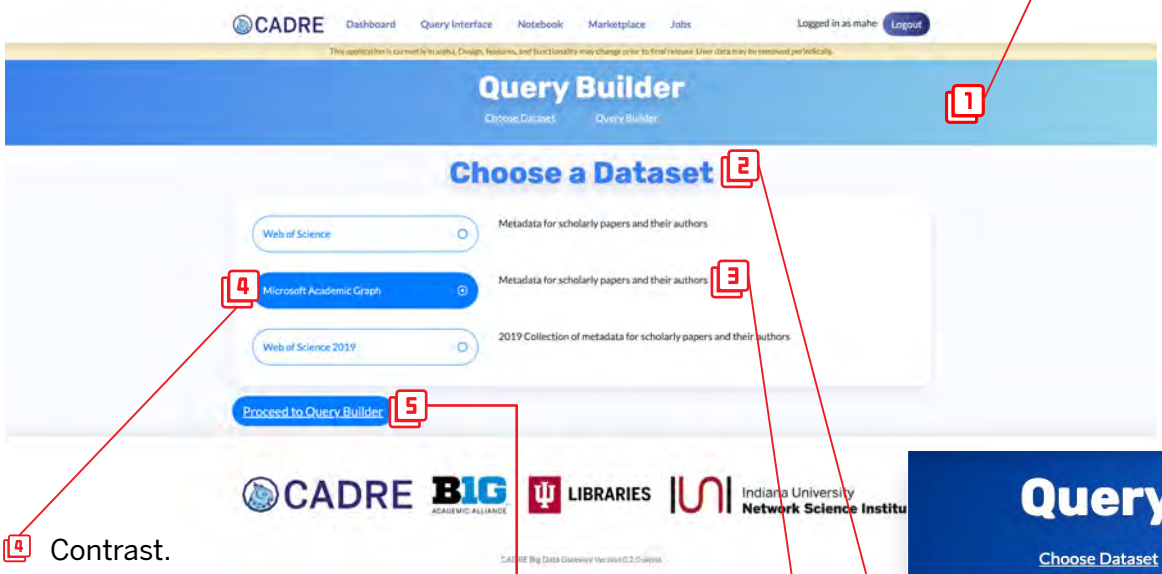
[4] Contrast.

Adjusted opacity of this button to 100% which means this button is fully visible. Additionally, the Gateway-universal button background color change also applies to this button.

CADRE GATEWAY

Query Builder > Choose Dataset

https://cadre.iu.edu/gateway/query-builder/choose-data-set



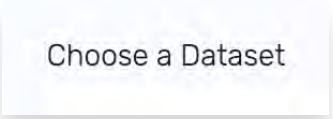
1 Contrast.

The lighter end of the background gradient provides poor contrast against the white page title. The gradient was changed from **#3E81EA** - **#92D3E7** to **#003385** - **#2670E8**; both ends of the new gradient provide contrast ratios greater than 4.90:1, WCAG 2.1 AAA compliant (for large text only).

This change applies to all pages of the Query Builder.

2 Visual aesthetics.

Universal <h3> style change also applies to this.



3 Visual aesthetics.

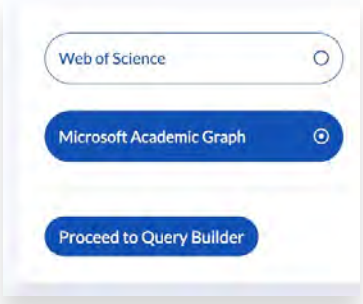
Made this text horizontally aligned to radio buttons to their left.

4 Contrast.

Universal button background color change also applies to these radio buttons.

5 Structure; visual aesthetics.

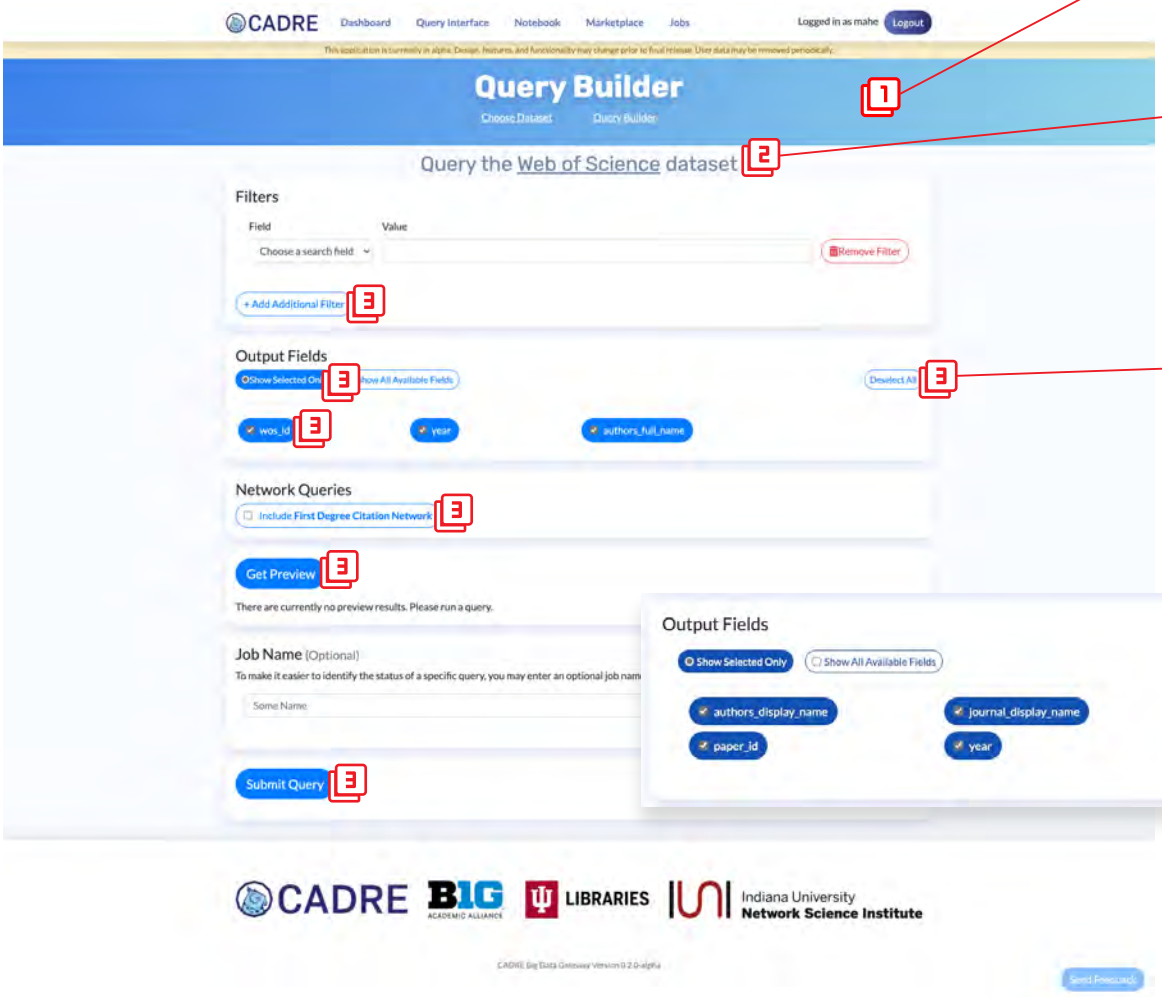
Moved this “Proceed to Query Builder” button into the box above, added a divider between the button, added space around the button, removed text underline, and aligned the button to the left of the radio buttons above. The reason for these changes is that the button belongs to the same functional group with controls inside the box.



CADRE GATEWAY

Query Builder > Build Query

https://cadre.iu.edu/gateway/query-builder/build-query



[1] Contrast.

See note [1] in the last page.

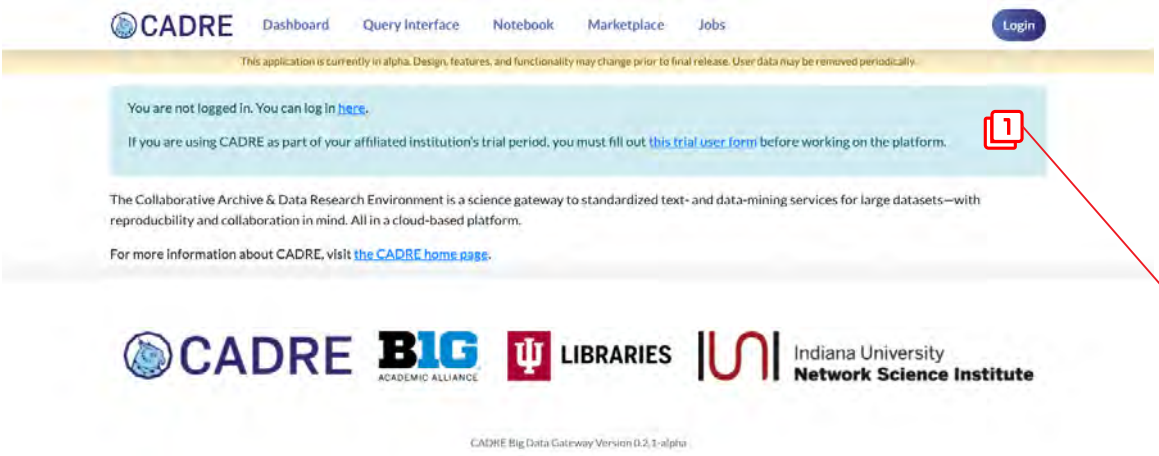
[2] Structure; Visual aesthetics; readability.

Universal <h3> style change also applies to this.

[3] The universal button background color also applies to controls marked with [3] as highlight/selected state color.

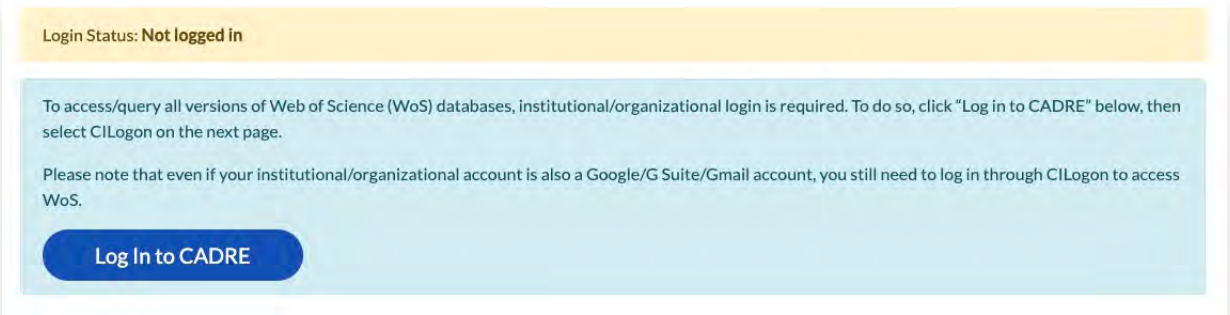
CADRE GATEWAY
Gateway > Not-Logged-In Page

https://cadre.iu.edu/gateway/profile



1 UX copywriting.

Added information about choosing the correct option when logging in.



CADRE GATEWAY
Other Universal Changes (Gateway-only)

Other universal accessibility changes include:

Color of the focus indicator is changed to improve its contrast ratio.

Fixed controls/objects that are missing attributes.

Fixed controls, such as custom buttons, that are not programmatically associated with their group labels.