

Midwest Big Data Innovation Hub

Building Regional Capacity in Data Science Education

W. John MacMullen



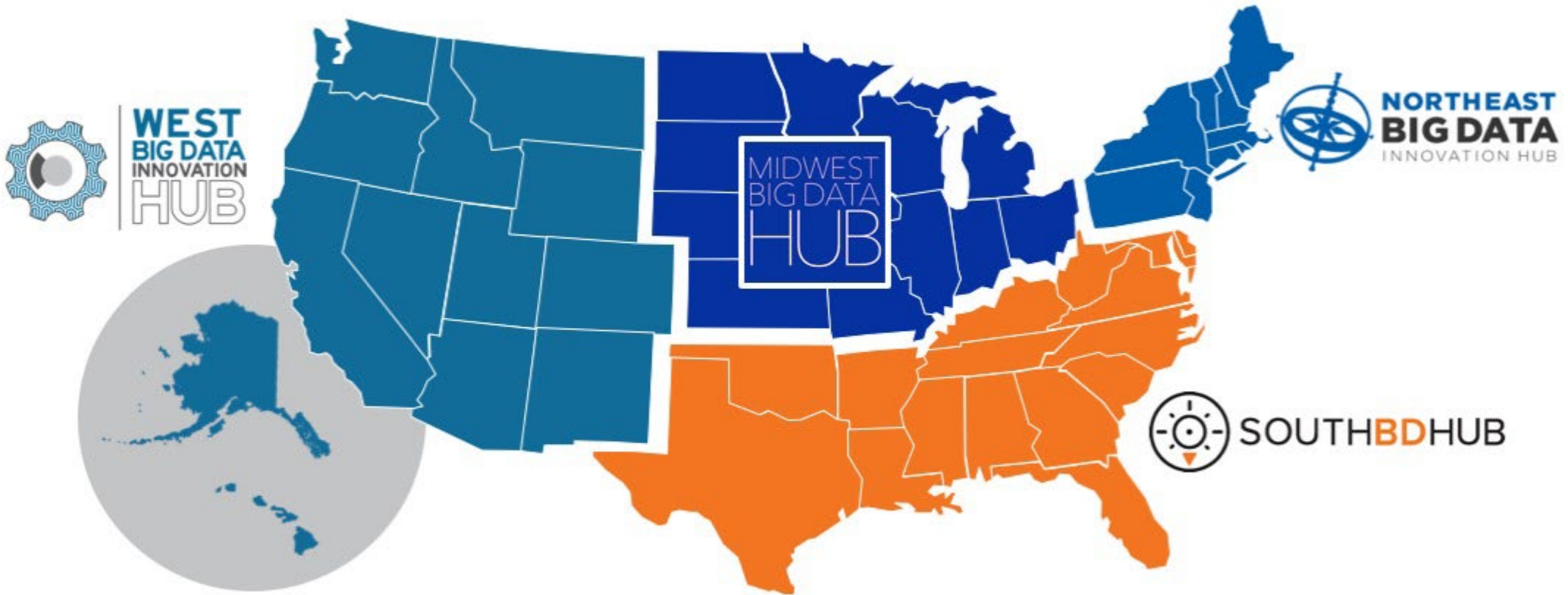
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Four Hubs, One Mission



What We Do

Engage communities, share resources, and build partnerships that harness data science to address societal and scientific challenges.



Priority Areas and Cross-cutting Themes

- Advanced Materials and Manufacturing
- Big Data in Health
- Digital Agriculture
- Smart & Resilient Communities
- Water Quality
- Data Science Education and Workforce Development
- Cyberinfrastructure and Data Sharing

Open[ed]
TOWARDS AN ACCESSIBLE, DIVERSE
AND OPEN DATA SCIENCE EDUCATION

A seminar in which leading scholars will discuss pedagogical models, classroom practices, data sharing opportunities, cloud computing resources and other technological innovations to broaden participation of students in human data science and neuroscience education, especially in institutions with limited infrastructure and resources.

Time	Speaker/Event	Institution	Presentation
11:30 - 12:00	Buffet Brunch		
	John MacMullen	Midwest Big Data Innovation Hub	Building regional capacity in data science education
	Ivo Dinov	University of Michigan	Teaching data science with technology
	Franco Delogu	Lawrence Tech University	Online course-based research as a tool to inclusivity in STEM education
12:00 - 14:00	Franco Pestilli	Univ. of Texas, Austin	Improve access to STEM Education with Cloud Computing Platforms
	Sanni Koyejo	Univ. of Illinois Urbana Campaign	Lessons from the Black in AI Academic Program
	Megan Peters & Kate Bonnen	Univ. of California, Irvine & Univ. of Indiana, Bloomington	Inclusivity in neuroscience education via the Neuromatch Academy
14:00 - 15:00	Coffee Break + Networking Session		

APRIL 12
11:30 - 15:00

IN PERSON
Room C406
Taubman Student Services Center
Lawrence Tech University

ONLINE
Registration Link
<https://tinyurl.com/veyec3z2>

Building Regional Capacity in Data Science Education



Goals

- Broaden participation to MSIs and predominantly undergraduate institutions (PUIs)
- Provide support and curriculum development resources
- Build communities of peers to share information and best practices
- Support students, faculty, researchers, and staff with professional development opportunities



Building Regional Capacity in Data Science Education



Programmatic activities

- LTU open neuroscience meeting
- Data for Good faculty workshop (fall 2022)
- Midwest Carpentries Community calls
- Collaboration Café webinar series
- Data Science Student Groups webinar series and community
- Data Science Education Working Group (national monthly call)
- 'Event in a Box' tool kit for webinars and workshops
- Community Development and Engagement (CDE) program



Incubating new community initiatives

Call for Proposals

Community Development and Engagement program

Growing a data science community in the Midwest

<https://midwestbigdatahub.org/cde>



What support is available?

- Communications - Assistance with outreach and participant recruitment, promotion and amplification, website development, web forms (event registration, surveys, etc.)
- Administrative and project coordination support - Meeting coordination, note-taking, project planning, long-term storage and hosting of project materials
- Event planning, facilitation, and logistics support - Preparation for webinars, workshops, training activities, and other group events
- Participant support for attendees (especially students and qualifying speakers)
- *We encourage proposers from small institutions and MSIs to include salary support in their budgets if that is a deciding factor in their ability to participate.*
- *No direct funding or institutional overhead will be awarded to proposers unless otherwise negotiated during the review process.*

Get involved

info@midwestbigdatahub.org | @MWBigDataHub

Collaboration Café webinar series

<https://midwestbigdatahub.org/cafe>

April 21, 2022

3:00–4:00 p.m. CT / 4:00–5:00 p.m. ET

- Topic: Building Smart and Resilient Communities
- Solicitation: NSF Smart & Connected Communities (NSF 22-529)

May 19, 2022

3:00–4:00 p.m. CT / 4:00–5:00 p.m. ET

- Topic: Multidisciplinary Data Science in Health
- Solicitation: NSF/NIH “Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science” program (NSF 21-530)

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Get Involved ▾

MBDH Collaboration Cafe

Community Development and Engagement Program

Community Advisory Panel

Midwest Carpentries Community

Data Science Student Community

Regional Activities

Event in a Box Tool Kit

Explore Funding Opportunities

Join a Working Group

