

Midwest Big Data Innovation Hub
and
Trinity Christian College

Workshop on Data for Good for Education
(D4G4ED)



June 2-3, 2023



supported by NSF [1916613](#)



D4G4ED Team



- **Karl Schmitt**, Data Analytics Program Coordinator; Assistant Professor of Data Analytics, Trinity Christian College
- **John MacMullen**, MBDH Executive Director
- **J.D. Graham**, MBDH Outreach and Engagement Specialist

- **Richard Blumenthal**, Department Chair and Professor, Computer and Cyber Sciences Department, Anderson College of Business and Computing, Regis University
- **Ron T. Brown**, Independent Consultant
- **Dharma Dailey**, Research Associate, eScience Institute, University of Washington

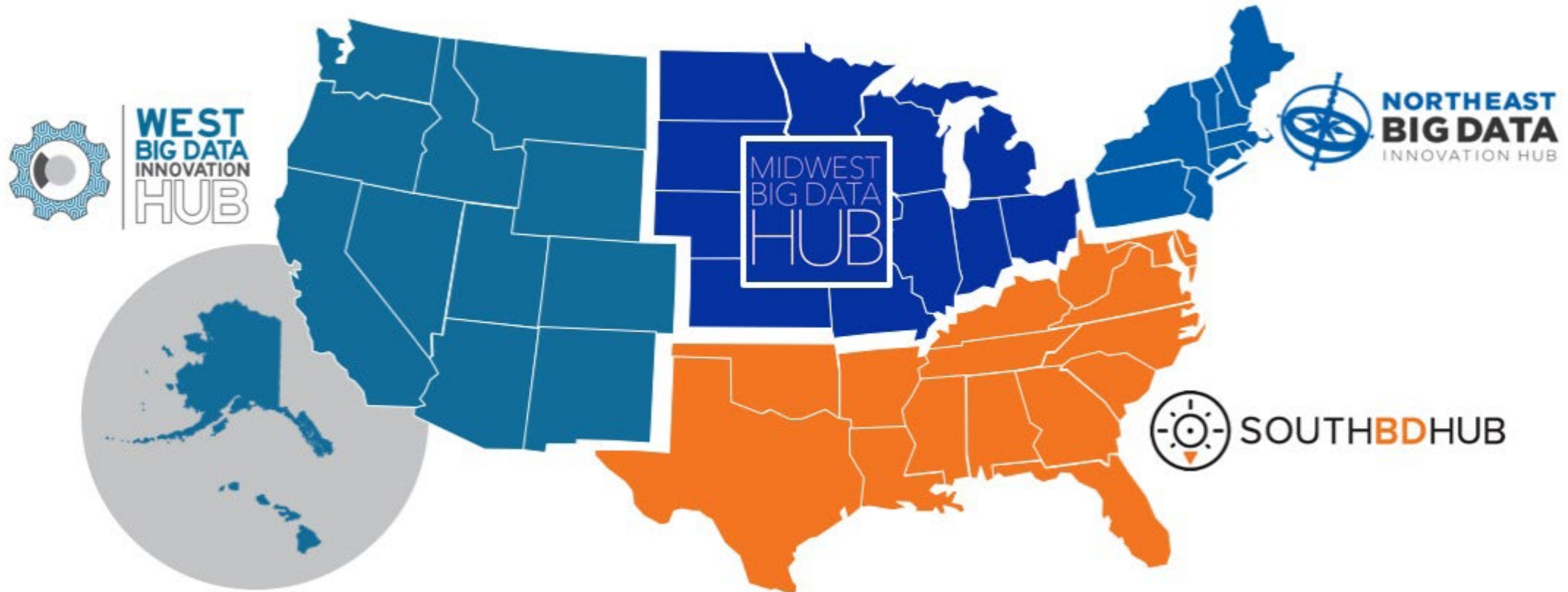


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Four regional Hubs, One national Mission



What We Do

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



Workshop Inspiration

Vision for Data Science Education

Establish as the disciplinary and teaching norms that Data Science education serves society as an integral (and necessary) component of the educational *process* such that it creates a *better* learning experience.

Primary Workshop Goal:

Support faculty in developing their skills and teaching to better incorporate Data for Good elements.

Additional Workshop Goals

- Leave with course materials to implement immediately
- Facilitate networking and community building
- Engage students and community partners with meaningful projects
- Build data science instructional capacity at under-resourced institutions



Workshop Schedule



Friday	
2:15–2:30	Welcome
2:30–3:15	Plenary #1 – Dharma Dailey
3:15–4:00	Break – Room check-in
4:00–6:00	Workshop Session #1 (Blumenthal)
6:00–6:30	Break – late room check-in
6:30–7:30	Dinner
7:30–9:00	Speed-Networking Session / Open Work Session

Saturday	
7:30	Breakfast opens
8:00–9:00	Breakfast with Marketplace of Ideas and Innovations
9:00–9:15	Break
9:15–11:15	Workshop Session #2 (Dailey)
11:15–11:30	Break
11:30–12:15	Plenary #2 (Blumenthal)
12:15–12:30	Break
12:30–1:30	Lunch with Marketplace of Ideas and Innovations
1:30–2:00	Work Session
2:00–4:00	Workshop Session #3 (Facilitated)
4:00–4:10	Closing Comments
4:30–6:30	Dinner (Optional)



Plenary 1

Dr. Dharma Dailey, Research Associate, eScience Institute, University of Washington

Dharma Dailey is a Research Associate at the eScience Institute, working with Anissa Tanweer to understand how human-centered design can be incorporated into data-intensive research. She is the Human Centered Design Mentor for the eScience Institute's Data Science for Social Good (DSSG) Program. She coaches DSSG teams to explore the social dimensions of their projects. She is also working with a coalition of Data for Good organizers to document better practices for running university-based DSSG programs.



Her PhD research focused on the use of social media during crises, with special attention to how information of value to crisis-affected communities is produced and diffused. That line of research has given her an appreciation for the value of integrating interpretivist approaches and human-centered methods into computational social science.

Workshop Session 1

Dr. Richard Blumenthal, Department Chair and Professor, Computer and Cyber Sciences Department, Anderson College of Business and Computing, Regis University

Dr. Richard Blumenthal is Chair of the Computer and Cyber Sciences Department in Anderson College of Business and Computing. Prior to joining Regis University, Dr. Blumenthal worked in Artificial Intelligence (AI) research at AT&T Bell Laboratories and US West Advanced Technologies. He also developed workflow and e-commerce applications for various software startups. Dr. Blumenthal has a PhD from the University of Colorado in Boulder, Colorado, where he developed workflow technology for supporting unstructured activities.



Dr. Blumenthal is currently on the executive boards for the Association for Computing Machinery (ACM) Committee on Professional Ethics (COPE) and ACM Special Interest Group on Computers and Society (SIGCAS). He is also the Editor in Chief of ACM Computers and Society publication. His current research focuses on the AI discipline of Intelligent Tutoring Systems and Computing for the Social Good in Education (CSGEd). Rick is also on the Steering Committee for CS202X, which is developing the next release of international recommendations for the undergraduate computer science curriculum.