

Critical Data Viz Workshop: An introduction to the ethics and **practice of data visualization**

Vetria L. Byrd, Ph.D.
Assistant Professor
Computer Graphics Technology

Critical Data Viz Workshop
Purdue University

May 20 - 24, 2019



Byrd Data Visualization Lab

KNOY Hall of Technology
Room 373

<https://byrdvislab.wixsite.com/website>



BYRD DATA VIS LAB

KNOY HALL OF TECHNOLOGY 373



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Making a Case for Broadening Participation

2014

The Birth of BPViz

1st Broadening Participation in Visualization (BPViz) Workshop
Clemson University
Clemson, South Carolina
February 10-12, 2014
NSF Award No. 1419415



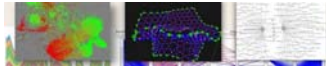
Vetria Byrd, Organizer
<https://BPViz.org>

HPC



July 31, 2014

Recruited
to Purdue



2014/2015 VizREU Site: Research Experiences for Undergraduates in Collaborative Data Visualization Applications. NSF ACI Grant No. 1359223
Clemson University
Clemson, South Carolina
Vetria Byrd, PI

2015

Panel: Could Visualization Provide a Pathway to STEM?
IEEE Vis Conference
Chicago, Illinois
October 28, 2015



BPViz Workshop
Sponsors:



NSF CADENS
Award No.
1445176

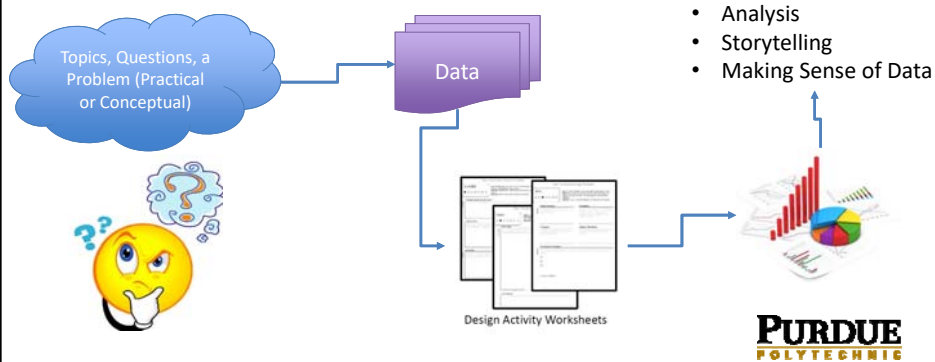


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Since Joining Purdue

Research on Visualization Capacity Building

Byrd, McGraw, Chen, Connolly (2016). **Curriculum Development for Visualization Capacity Building**. In the Proceedings of ASEE/EDGD Nashua, NH, October 16-18, 2016.



Since Joining Purdue

New Major in Data Visualization for Undergraduates

Courses that I have taught

CNIT 5700 Business Analytics Course for Rolls Royce (Visualization Component)

CGT101: Introduction to Computer Graphics

CGT 118: Fundamentals of Imaging Technology

Courses that I teach

- Fall: CGT 270 Data Visualization (for Data Vis Majors)
- Spring: CGT 575 Data Visualization Tools and applications (for graduate students)

Courses that I will teach (Fall2019)

- CGT491/IDIS 491 Data Visualization for Societal Problems

Data Mine Data Visualization Living Learning Community

Fall 2019

- CGT 270 Data Visualization (for non-majors)
- CGT 290 Topics in Data Visualization

Spring 2020

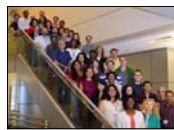
- Advanced Data Visualization



Making a Case for Broadening Participation

2016

2nd Biennial Broadening Participation in Visualization Workshop (BPViz'16)
Purdue University and
University of Illinois Urbana
Champaign
August 3 – 4, 2016



Vetria Byrd and Donna Cox,
Co-Organizers
<https://BPViz.org>



Panel: Facilitating Visualization Capacity Building
The 9th International Symposium on Visual Information Communication and Interaction (VINCI 2016)
Dallas, Texas
September 24 – 26, 2016

BPViz Workshop
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Award No.
1445176



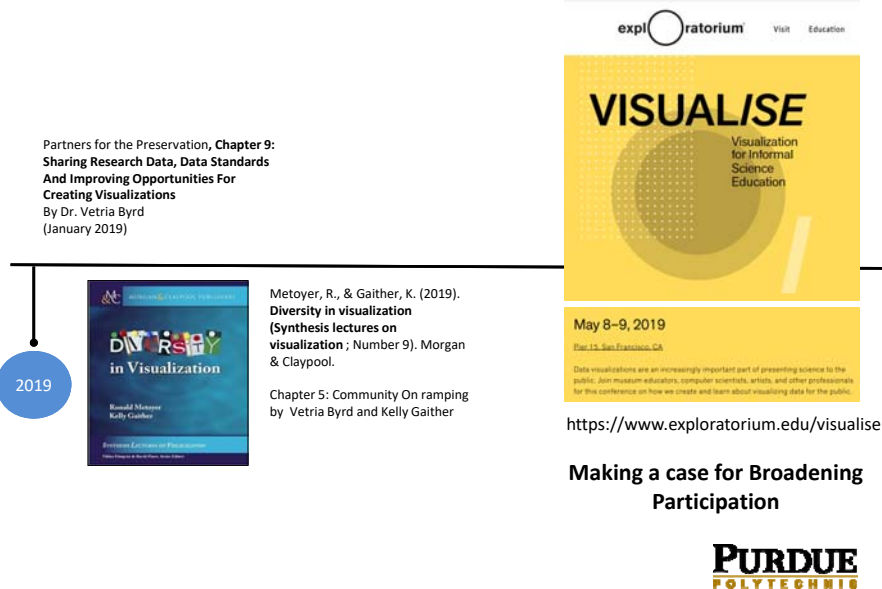
CRA-W
Computational Research Award



Making a Case for Broadening Participation



Making a Case for Broadening Participation



Making a Case for Broadening Participation

2019



**Center for
Science of Information**
NSF Science and Technology Center



PURDUE UNIVERSITY
Discovery Park

Critical Data Viz Workshop: An introduction to the ethics and practice of data visualization

Monday, May 20, 2019 - Friday, May 24, 2019
Purdue University



Newly Minted “Agents of Insight”
May 2019

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GORDON RESEARCH CONFERENCE

VISUALIZATION IN SCIENCE AND EDUCATION

July 12 – 14, 2019 Pre-conference Workshop: Broadening Participation

July 14 – 19, 2019 Conference: Educating Skillful Visualizers



Visualization in Science and Education
Gordon Research Conference

Educating Skillful Visualizers

July 14 - 19, 2019

[Apply Now](#)

Chairs

Kim A. Kastens and Ryan J. Wyatt

Vice Chairs

Leigh Peake and Vetricia L. Byrd

[Contact Chairs](#)

Bates College

2 Andrews Road
Lewiston, ME, US

[Venue and Travel Information](#)

Accepting Applications!

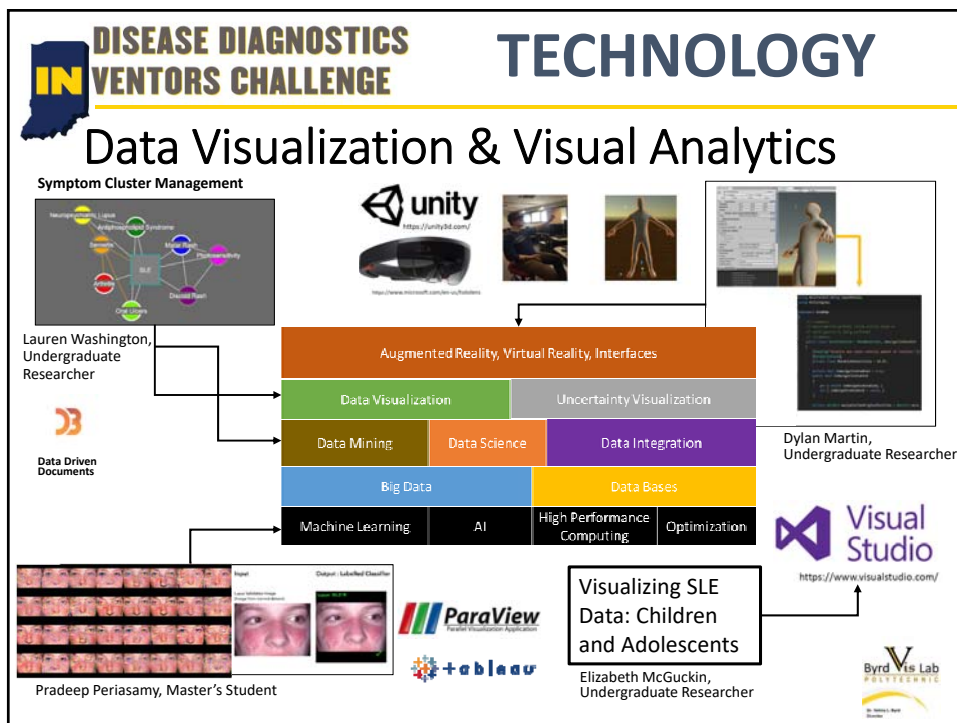
<https://www.grc.org/visualization-in-science-and-education-conference/2019/>

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BPViz 2020?

Co-locate with a major conference

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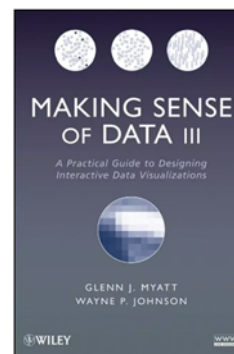
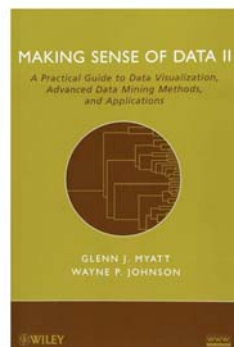
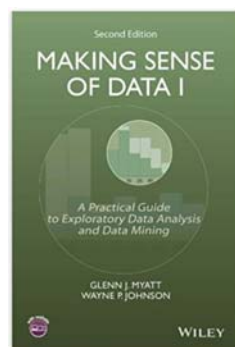


Data Visualization Resources



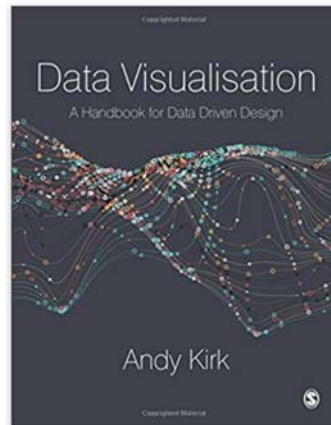
MAKING SENSE OF DATA

WISH LIST



DATA VISUALIZATION

A HANDBOOK FOR DATA DRIVEN DESIGN

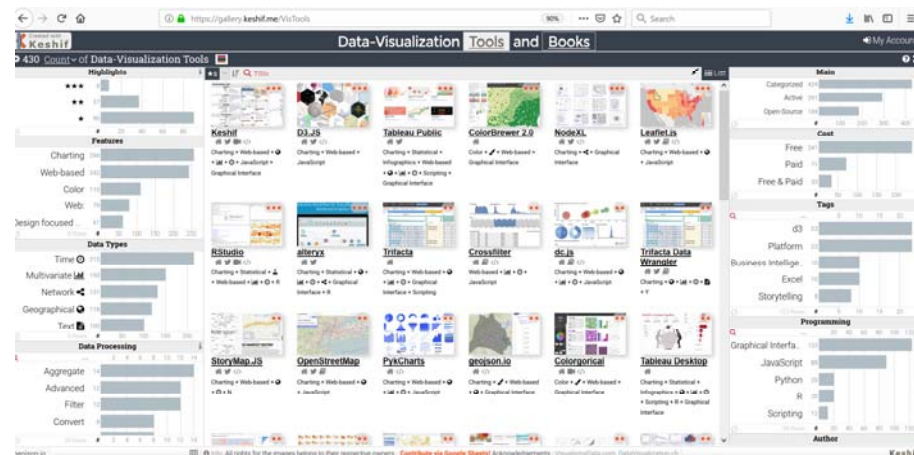


A Handbook for Data Driven Design

<http://book.visualisingdata.com/home>

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DATA VISUALIZATION TOOLS & BOOKS



<https://gallery.keshif.me/VisTools>

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Congratulations!



**Turn in your worksheets
before you leave.**

**Complete the feedback
surveys.**

Email Group Notebooks (PDF)





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<https://BPViz.org>



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