

**THE**

5th Annual  
International  
Conference

OCTOBER 15-17, 2020 | CLEMSON SC  
**ONLINE2020**

**CAAV**

# **THECAAV 2020**

THE **HIGHER EDUCATION**  
**CAMPUS ALLIANCE FOR ADVANCED VISUALIZATION**  
October 15-17, 2020 **CLEMSON UNIVERSITY**

# CAAVCon 2020 Conference Agenda

Thursday, October 15th, 2020

9:00am – 9:05am	Welcome Dr. Winifred E. Newman, Director, Institute for Intelligent Materials, Systems and Environments, Clemson University, Acting Assoc. Dean for Research and Academic Affairs, CAAH	
9:05am – 9:15am	Dr. Shelia Cotten, Associate Vice-President for Research Development, Clemson University Dr. Frank Klassner, President of THE CAAV and Director of Center for Excellent and Enterprise Technology	
9:15am – 10:15am	Keynote Address: The New Golden Age of Insight Dr Elizabeth Baron, Enterprise Solutions Executive at Unity	
10:15am – 10:20am	Hubs Chat	
	<i>Visualization and Visualization Instrumentation</i>	
10:20am – 10:45am	Presentation Data Visualization, Exploration, and Collaboration, Dan Milisavljevic, George Takahashi, Andrew Sumner (Purdue University)	Demonstration Projects Open
10:45am – 11:10am	Presentation The Decentralized Visualization Facility: Local and Remote Collaboration Using Commodity VR Hardware, Oliver Kreylos (Assoc. Researcher, University of California, Davis)	
11:10am – 11:35am	Presentation Investigating Your Traces: Optimizing Completion Times and Accuracy for Manipulation Tasks in Virtual Reality using Data Visualization, Andreas Bueckle (Indiana University)	
11:35am – 12:00pm	Presentation Human-Centered Communication and Natural Interaction Across Multiple Visualization Environments An Open Discussion of Examples and Considerations, Ryan Young (Mechdyne, Europe)	
12:00pm – 1:00pm	Lunch & Technical Showcase   Hubs	
1:00pm – 1:25pm	Panel 1: Grants, Funding and Resources in the Age of COVID, Frank Klassner, Elyse Newman, Emma Jane Alexander, Ross Trednick, and Bill Sherman	
	<i>Open Sources and the Public Face of Visualization</i>	
1:25pm – 1:50pm	Presentation Vast: An Open Source Web Framework Extending the Responsive Web to Large Scale Display Systems Walt Gurley (NCSU) and Lucas Swick (generativeartist.com)	Demonstration Projects Open
1:50pm – 2:15pm	Presentation OpenPipe: an Open Source Cloud Based Production Pipeline For The Arts, Steve Cutchin (Boise State)	
2:15pm – 2:40pm	Presentation SageXR, an Application to Enable Remote Participation on Tiled Display Walls, Dylan Kobayashi	

End of Day 1

Friday, October 16th, 2020

9:30am – 10:20am	Keynote Address: How Data Visualization Can Help Us Tell More Complete Stories, Spot Trends, and Make More Accurate Predictions, Alex Simoes, Co-Founder and CEO at Datawheel	
	<i>Mixed Reality and Industry</i>	
10:20am – 10:45am	Presentation Design to Fabrication Workflow in Mixed Reality, Dave Lee, Nathan Newsome (Clemson University)	

10:45am – 11:10am	Presentation Implementation of a Camera Orientation Optimization for Mobile Industrial Plants, Matthias Epple (Germany)	Demonstration Projects Open
11:10am – 11:35am	Presentation STRIFE Online: Immersive Training for the Print Industry, Nathan Newsome (Clemson University)	
11:35am – 12:00pm	Presentation Autodesk Technology Centers: Global Oversight Network, Matthew Spremulli (Autodesk, Toronto)	
12:00pm – 1:00pm	Lunch Break & Technical Showcase   Hubs	
	<i>Mixed Reality and Health</i>	
1:00pm – 1:25pm	Presentation VR to Treat Obesity, Emma-Jane Alexander, Kyle Summerfield, Justin Piccorelli (University of Wyoming)	Demonstration Projects Open
1:25pm – 1:50pm	Presentation An actual natural setting improves mood better than its virtual counterpart: A meta-analysis of experimental data, Matthew Browning (Clemson University)	
1:50pm – 2:15pm	Presentation Medical Education and Surgery Assisted by AR, Sadan Suneesh Menon, Thomas Wischgoll (Wright State University)	
2:15pm – 2:40pm	Presentation Improving Alzheimer's Caregiver Preparedness Using Virtual Reality, Aasish Chandrika Bhanu	
End of Day 2		

Saturday, October 17th, 2020		
9:50am – 10:30am	Panel 2: Content Sharing Services with Jeff Fisher, Lisa Hunt and John Koudelka	
	<i>Mixed Reality and Education</i>	
10:30am – 10:55am	Presentation Journey Through the Blues, Noel Dolan and Andrew Grace (Villanova University)	Demonstration Projects Open
10:55am – 11:20am	Presentation Embodied Data and Diverse Proxy Phenomenology in Pompeii, David Fredrick (University of Arkansas)	
11:20am – 11:45am	Presentation Considering the affordances of virtual environments to enhance learning outcomes in high school chemistry, David Dixon (USC)	
11:45am – 12:10pm	Presentation Purdue Envision Center: Our Journey to Become a Self-sustaining Organization, Laura Theademan (Purdue University)	
12:10pm – 1:20pm	Lunch and Discussion   Zoom	
	Key	
	End of Day 3	Zoom
	Hubs Main Hall and Portals	
1:00pm – 2:00pm	CAAV Executive Board Meeting	