

Bio+Med+Vis

Spring School Program

CEST	Monday, 17th May 2021	Tuesday, 18th May 2021	Wednesday, 19th May 2021	Thursday, 20th May 2021	Friday, 21st May 2021
14:00	Opening and Participants Introduction Organizers	Multiscale BioMedical Visualization Helwig Hauser	Foundations of Flow and Topological Data Analysis for the BioMedVis Domain Ingrid Hotz & Vijay Natarajan	Visualization of Biological and Medical Time- varying Data Silvia Miksch & Barbora Kozlikova	AR/VR in BioMedicine Pere Pau Vazquez
14:15					Visual Analytics for P4 Medicine Renata Raidou
14:30					
14:45					
15:00	Break	Break	Break	Break	Break
15:15	Recent Advances in Image Denoising Won-ki Jeong	Visualization, Exploration, and Analysis of Biomedical Volume Data Stefan Bruckner & Michael Krone	Multimodal Medical Visualization Noeska Smit	The Dynamic Multi-Enzyme Pathway of Aerobic Respiration, from Glucose to ATP Drew Berry	A Critical Analysis of the Evaluation Practice in Medical Visualization Bernhard Preim
15:30					
15:45	Visualization for Diffusion- Weighted Imaging Anna Vilanova		Visualization of Vascular Structures Gabriel Mistelbauer	Factors to Consider in Visual Communication of Biomedical Topics Laura Garrison	
16:00					
16:15	Break	Break	Break	Break	Break
16:30	A Primer on Biomedical Data Sources Noeska Smit & Jan Byska	Visualization for Neuroscience and Connectomics Johanna Beyer	Visualizing Omics Data Alex Lex	How to do a Successful PhD (in Visual Computing) Eduard Gröller	Visual Exploration of Patterns and Relationships in Low- Dimensional Embeddings Marc Streit
16:45					
17:00		Telling stories with Procedurally Generated Images Peter Mindek			Visualization to Make Medical Imaging AI Useful in the Clinical Wilderness Claes Lundström
17:15					
17:30	Break	Break	Break	Break	Break
17:45	Unifymol as an Example for Game-Engine Based Scientific Visualization: an Introductory Tutorial Marc Baaden	VTK: A Brief Introduction Will Schroeder	A Tour of d3 Michael Oppermann	Biological Network Visualization Hsiang-Yun Wu	Can a Picture Save a 1000 Lives? BioVis in Clinical and Public Health Practices Anamaria Crisan
18:00					
18:15			Color Fundamentals for Data Visualization Theresa- Marie Rhyne	Visualization for AI in Critical Domains Alex Bauerle	
18:30					
18:45	Break	Break	Break	Break	Break
19:00	Visualization of Spatial Single- Cell Omics Data Nils Gehlenborg	Mentoring Visualization Designs Martin Krzywinski	Visualization Analysis and Design Tamara Munzner	Social Event	Round Table and Closing
19:15					
19:30					