**Transdisciplinary experiences in Data Visualization and beyond**

Data visualization (DataViz) is still a growing field in the frontiers of art, design, and computer science. For over 10 years, we, at the Visuality and Visualization Laboratory (LabVis), Federal University of Rio de Janeiro, have been involved in animated, interactive, and physical DataViz production on topics ranging from personal data, such as daily activities and feelings, to energy and environmental issues. Side by side with artistic creations, we have been stretching DataViz limits to include hypotheses exploration in the public health domain. These achievements have required a transdisciplinary approach which includes participation of graduate and undergraduate students, practice, and research. Looking ahead, the recent advances in AI introduce new challenges in the DataViz field.

In this talk, I will present examples of our production developed in LabVis and try to instigate a reflection on the changes AI might impose to DataViz. Can the notion of transdisciplinarity - where we learn in contact with other disciplines - help us find new possibilities for humans in visualization? What are the specific challenges to creativity in these processes?

**short bio**

Doris Kosminsky is an artist, designer, and curator working in visualization, information design and creative processes with the use of data. She is an associate professor at the Federal University of Rio de Janeiro (UFRJ) in the Department of Visual Communication Design at the School of Fine Arts. She also teaches in the Graduate Program in Visual Arts, and the Graduate Program of Design at the same university. She is the founder and coordinator of the Visuality and Visualization Laboratory (labvis.eba.ufrj.br), the first data visualization design lab in Brazil, created in 2010.

She publishes and lectures in the field. Among her main works are “Numerical Existence”, an art exhibition and book, the installations "Network of Us" and "Visualizing Visualizers", best paper at IEEE VIS 2019 for "Data Changes Everything: Challenges and Opportunities in Data Visualization Design Handoff”, as well as the recent big data visualization project  "AMPLIA SAÚDE: Perinatal Observatory”, which explores the influence of air pollution on maternal and newborn health (ampliasaude.org).