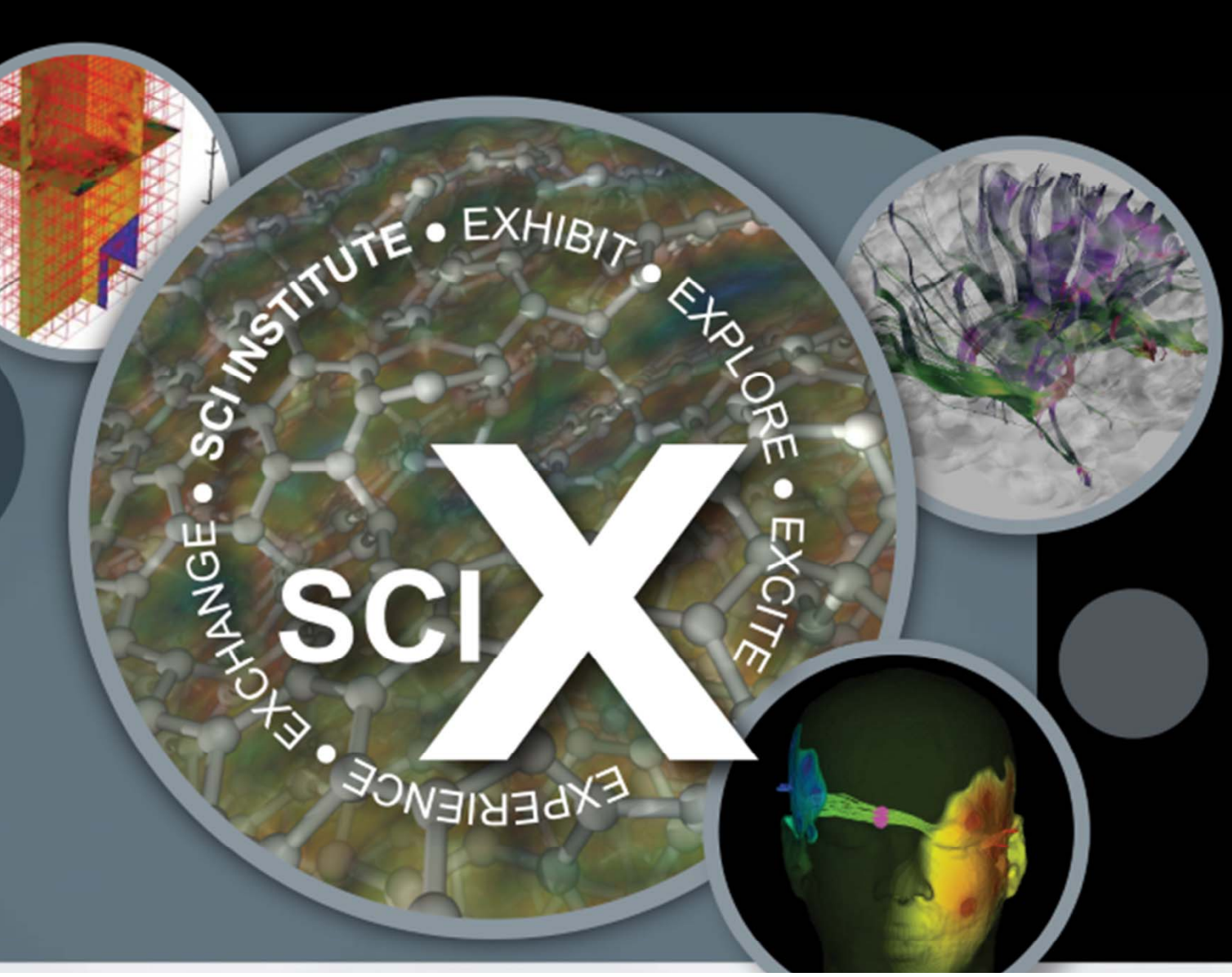
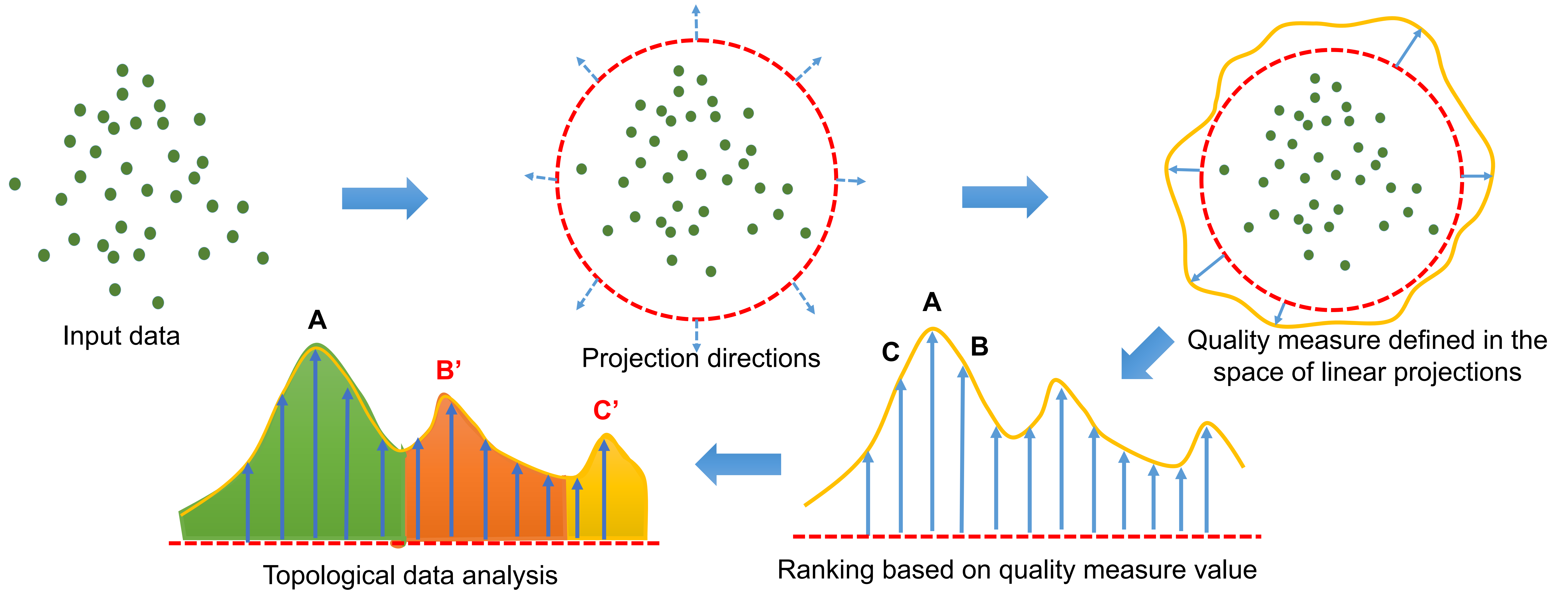


# Grassmannian Atlas: A General Framework for Exploring Linear Projections of High-Dimensional Data

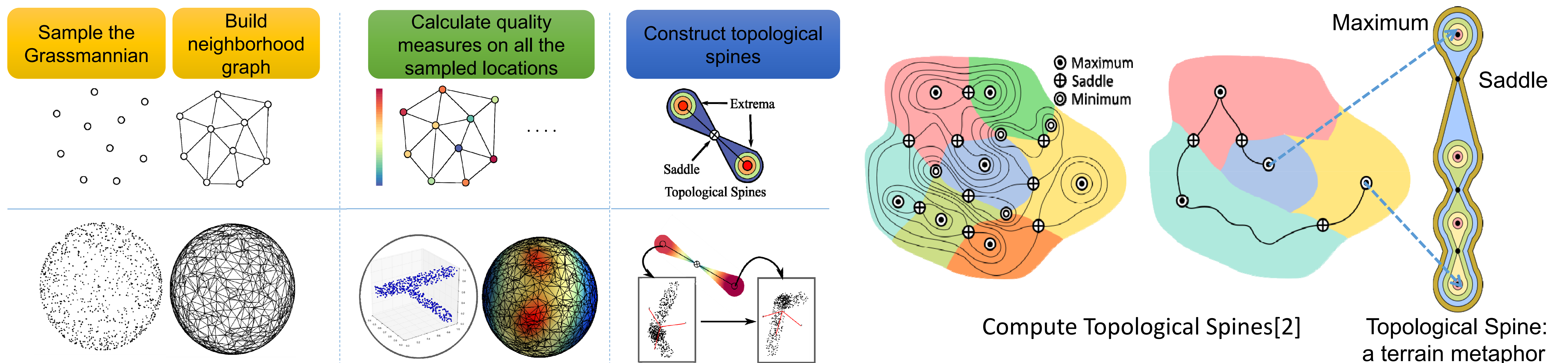
Shusen Liu<sup>1</sup>, Peer-Timo Bremer<sup>2</sup>, Jayaraman J. Thiagarajan<sup>2</sup>, Bei Wang<sup>1</sup>, Brian Summa<sup>3</sup>, and Valerio Pascucci<sup>1</sup>.  
 Scientific Computing & Imaging Institute, University of Utah<sup>1</sup>, Lawrence Livermore National Laboratory<sup>2</sup>, Tulane University<sup>3</sup>



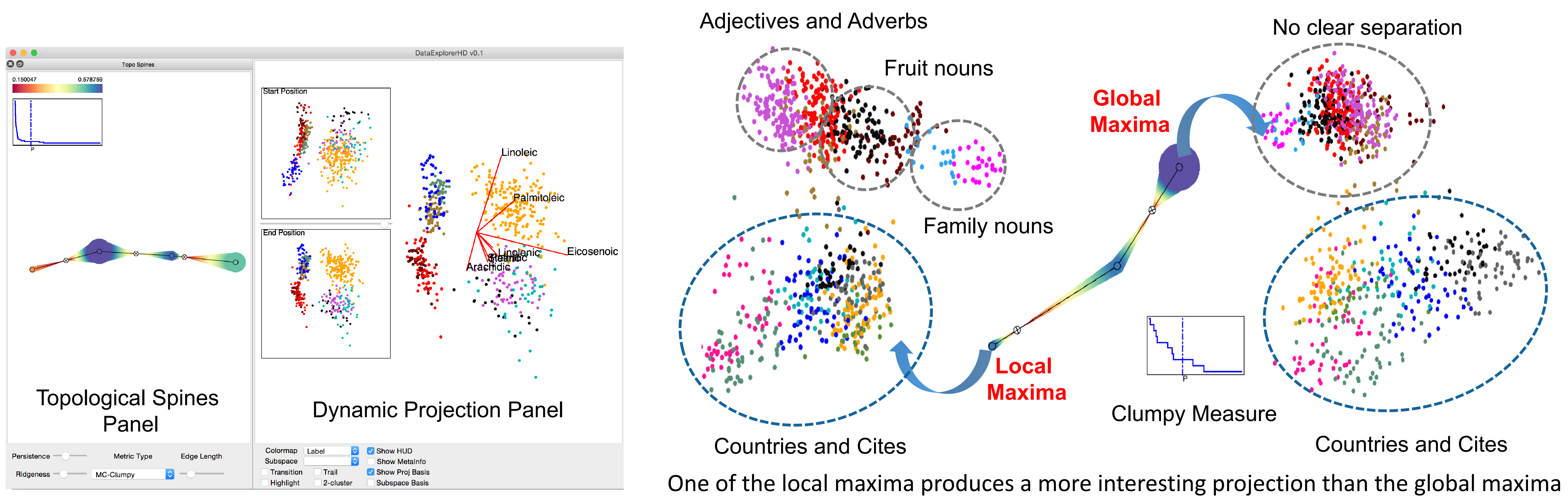
Summarize the function of quality measure in the space of all 2D linear subspaces (Grassmannian) [1]



## Computation Pipeline



## User Interface and Result



[1] S. Liu, P-T. Bremer, J. J. Thiagarajan, B. Wang, B. Summa, and V. Pascucci. "Grassmannian Atlas: A General Framework for Exploring Linear Projections of High-Dimensional Data." Computer Graphics Forum, 2016  
 [2] C. Carlos, P. Lindstrom, and P-T. Bremer. "Topological spines: A structure-preserving visual representation of scalar fields." IEEE transactions on visualization and computer graphics (TVCG), 2011

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