



CONNECTING THE DOTS, GIVING SHAPE TO BIG DATA

Professor Arlo Caine

California State Polytechnic University Pomona

University of Notre Dame

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5:00PM; 101 Jordan Hall

In the era of Big Data, shape analysis for large data sets is needed. Computational Topology is a rapidly developing field which uses computer science and statistics to bring 20th century algebraic topology to bear on this 21st century problem. We will survey ways of connecting the dots to give shape to data and compute characteristic features, exploring how the methods may succeed or fail at capturing information. We will apply these tools to diverse subjects including cancer research and astronomy.